# CAUVERY COLLEGE FOR WOMEN (AUTONOMOUS)

**Affiliated to Bharathidasan University**
**Nationally Accredited (IV Cycle) with A⁺ grade by NAAC**
**Annamalainagar**
**Tiruchirapalli-620018**

## Minutes of the Twelfth Meeting of the Academic Council

Date : 06.08.2025 Time: 11.00 a.m.
Venue : Dr Rameswari Nallusamy Hall

**CAUVERY COLLEGE FOR WOMEN (AUTONOMOUS)**
**Affiliated to Bharathidasan University**
**Nationally Accredited (IV Cycle) with A⁺ grade by NAAC**
**Annamalainagar, Tiruchirapalli-620018**

# TWELFTH MEETING OF THE ACADEMIC COUNCIL

Date : 06.08.2025 Time: 11.00 A.M.
Venue: Trust Meeting Hall

## MINUTES

### WELCOME AND INTRODUCTORY REMARKS OF THE CHAIRMAN

The Chairman of the Academic Council, Dr. S. Ramalakshmi, welcomed the gathering to the XII Meeting of the Academic Council

### CONFIRMATION OF THE MINUTES OF THE LAST MEETING HELD ON 08.02.2025

The Member Secretary, Dr. Sinthu Janita, read the minutes of the XI Meeting of the Academic Council, comprising 19 resolutions (Resolution No. 11/25/01 to Resolution No. 11/25/19). These resolutions pertained to the approval of the introduction of new programmes, the Introduction of Health and Wellness Course, NCC Courses as electives in GEC, confirmation of the V & VI Semester Syllabus of all undergraduate programs for the 2023-2024 batch, NAD records, the declaration of the results of April 2025 examinations and the incorporation of SWAYAM courses into the curriculum.

### RESOLUTION NO.12/25/01

To consider and follow the same regulations of (2024 – 2025) for the students admitted in Undergraduate and Postgraduate Programmes during the year (2025 – 2026) and onwards, and the same be approved.

*Resolved to follow the same regulations of (2024 – 2025) for the students admitted in Undergraduate and Postgraduate Programmes during the year (2025 – 2026) and onwards, and the same be approved*

### RESOLUTION NO.12/25/02

To nominate two subject experts from outside the Parent University for the Board of Studies of all departments for the period (2025-2028), and the same be approved.

*Approved the selection of two subject experts from outside the Parent University for the Board of Studies of all departments for the period (2025-2028), and the same be approved as given in* ***Annexure A***

**RESOLUTION NO.12/25/03**

Ratification to consider the SWAYAM courses as extra credit courses, for all Undergraduate and Postgraduate programmes, as followed earlier, for the 2025-2026 batch, also.

*Difficulties in incorporating SWAYAM Courses into the curriculum*

*Approximately 60% of students pass the NPTEL exams. The remaining students are finding it difficult to pass and earn credits since the same course is not offered in the subsequent semesters. The marks are mapped with their (APAAR ID) by SWAYAM*

*The Special Invitee, Dr. C. Prahalathan, Director of CCCD, suggested that students can take similar courses from other learning platforms, such as Coursera. The mentors can recommend a list of courses to the students and guide them through the registration process.*

*Ratified to consider the SWAYAM courses as extra credit courses, for all Undergraduate and Postgraduate programmes, as followed earlier, for the 2025-2026 batch, also.*

**RESOLUTION NO.12/25/04 – 12/25/18**

*Matters Related to BoS*

*Changes made for the 2024-2025 batch and onwards*

*For UG*

- *No changes in Semester I & II. Changes are made from Semester III onwards*
- *Equal credits are given for all Core Courses and Core Practical.*
- *Inclusion of Health and Wellness in Semester III*
- *Inclusion of NCC courses in Semesters III & IV as NME Courses*
- *Internship for 30 days during the IV Semester Summer Holidays, which will be evaluated in the V Semester*
- *Hours and Credits for Project Work have been changed*

*The Special Invitee, Dr. C. Prahalathan, Director of CCCD, and Industry Expert Mr. Derrik Alex expressed their concern about a 30-day internship during the summer holidays, as all students from educational institutions will be competing for internships at the same time. The chairperson assured that the college has MoUs with reputed industries and will guide the students for proper internships in the industry. Further feedback may be collected from the students in this regard and further action will be carried out.*

*Resolved to approve the changes as given in* ***Annexure B to Annexure P***

**RESOLUTION NO.12/25/04**

To ratify

a. The syllabus, hours and credits of CCXIII- Purapporul Venbamalai (24UATA6CC13), CCXIV- Sanga Illakkiyam Agam (24UATA6CC14), as 6 hours and 5 credits in Semester VI of B.A Tamil for the 2024-2025 batch and onwards.
b. The syllabus of Part-I Tamil Ilakkiya Varalaru-I as given in the TANSCHE syllabus for all Undergraduate programmes of 2025-2026 batch and onwards

*Ratified to change*

a. *The syllabus, hours and credits of CCXIII- Purapporul Venbamalai (24UATA6CC13), CCXIV- Sanga Illakkiyam Agam (24UATA6CC14), as 6 hours and 5 credits in Semester VI of B.A Tamil for the 2024-2025 batch and onwards.*
b. *The syllabus of Part-I* Tamil Ilakkiya Varalaru-I *as given in the TANSCHE syllabus for all Undergraduate programmes of the 2025-2026 batch and onwards*

*As recommended by the Board of Studies in Tamil and moved by the Chairman,* ***Dr A R Gomathy,*** *in the meeting and the same be approved as given in* ***Annexure B***

**RESOLUTION NO.12/25/05**

To approve the ratification of the syllabus, hours and credits of CCXIII- English Language Teaching (24UAEN6CC13), CCXIV- Canadian Literature (24UAEN6CC14), as 6 hours and 5 credits in Semester VI of B.A English for the 2024-2025 batch and onwards.

*Approved the ratification of the syllabus, hours and credits of CCXIII- English Language Teaching (24UAEN6CC13), CCXIV- Canadian Literature (24UAEN6CC14), as 6 hours and 5 credits in Semester VI of B.A English for the 2024-2025 batch and onwards.*

*as recommended by the Board of Studies in English and moved by the Chairman,* ***Dr R Uma Maheswari*** *in the meeting and the same be approved as given in* ***Annexure C***

**RESOLUTION NO.12/25/06**

To consider and approve:

a. The ratification of the syllabus of AECCI-UGC Jeevan Kaushal Universal Human Values in Semester I of all Undergraduate programmes of 2025-2026 batch and onwards.
b. CCXI-Welfare of Persons with Disability(22USW6CC11) has been replaced with Correctional Social Work (24USW6CC11) with 6 hours and 5 credits in Semester VI of BSW for the 2024-2025 batch and onwards.

*Considered and approved*

a. *The ratification of the syllabus of AECCI-UGC Jeevan Kaushal Universal Human Values in Semester I of all Undergraduate programmes of the 2025-2026 batch and onwards.*
b. *CCXI-Welfare of Persons with Disability(22USW6CC11) has been replaced with Correctional Social Work (24USW6CC11) with 6 hours and 5 credits in Semester VI of BSW for the 2024-2025 batch and onwards.*

*as recommended by the Board of Studies in Social Work and moved by the Head of the Department* ***Dr G. Mettilda Buvaneswari,*** *in the meeting and the same be approved as given in* ***Annexure D***

**RESOLUTION NO.12/25/07**

To ratify the syllabus, hours and credits of CCXI- Human Resource Management (24UBA6CC11) and CCXII- Financial Management (24UBA6CC12), as 6 hours and 5 credits and the shifting of CCIV Cyber Security as CC-XIII with course code 24UBA6CC13 in Semester VI of BBA for the 2024-2025 batch and onwards.

*Ratified the syllabus, hours and credits of CCXI- Human Resource Management (24UBA6CC11) and CCXII- Financial Management (24UBA6CC12), as 6 hours and 5 credits and the shifting of CCIV Cyber Security as CC-XIII with course code 24UBA6CC13 in Semester VI of BBA for the 2024-2025 batch and onwards*

*as recommended by the Board of Studies in Business Administration and moved by the Chairman,* ***Dr S Thamarai Selvi,*** *in the meeting and the same be approved as given in* ***Annexure E***

**RESOLUTION NO.12/25/08**

To consider and approve:

a. The ratification of the syllabus, hours and credits of CCXII- Direct Taxation (24UCO6CC12) and CCXIII- Management Accounting (24UCCO6CC13), as 6 hours and 5 credits, change of CCIV-Auditing as DSEIIA with course code (24UCO6DSE2A) and 5 credits and the shifting of CCXV Cyber Security as CC-XIV in Semester VI of B.Com for the 2024-2025 batch and onwards.
b. The ratification of the syllabus, hours and credits of CCXI-Corporate Accounting (24UCC6CC11) and CCXII- Direct Taxation (24UCC6CC12), as 6 hours and 5 credits and the shifting of CCXIV Cyber Security as CC-XIII in Semester VI of B. Com (CA) for the 2024-2025 batch and onwards.

*Considered and approved:*

a. *The ratification of the syllabus, hours and credits of CCXII- Direct*

*Taxation (24UCO6CC12) and CCXIII- Management Accounting (24UCCO6CC13), as 6 hours and 5 credits, change of CCIV Auditing as DSEIIA with course code (24UCO6DSE2A) and 5 credits and the shifting of CCXV Cyber Security as CC-XIV in Semester VI of B.Com for the 2024-2025 batch and onwards.*

b. *The ratification of the syllabus, hours and credits of CCXI-Corporate Accounting (24UCC6CC11) and CCXII- Direct Taxation (24UCC6CC12), as 6 hours and 5 credits and the shifting of CCXIV Cyber Security as CC-XIII in Semester VI of B. Com (CA) for the 2024-2025 batch and onwards.*

*as recommended by the Board of Studies in Commerce, and moved by the Chairman,* ***Dr N Savithri,*** *in the meeting, and the same be approved as given in* ***Annexure F***

**RESOLUTION NO.12/25/09**

To consider and approve

a. the ratification of the credits of the CCVII-Sequence and Series (24UMA4CC7) in Semester IV and CCX- Real Analysis (24UMA5CC10) in Semester V with 4 credits and the change of syllabus, hours and credits of CCXIV Complex Analysis (24UMA6CC14) as 6 hours and 5 credits in Semester VI of BSc Mathematics for the 2024-2025 batch and onwards
b. the syllabus of Core Course-III Mathematical Foundation (25PIT1CC3) for MSc Information Technology for the 2025-2026 batch and onwards

*Considered and approved*

a. *the ratification of the credits of the CCVII-Sequence and Series (24UMA4CC7) in Semester IV and CCX- Real Analysis (24UMA5CC10) in Semester V with 4 credits and the change of syllabus, hours and credits of CCXIV Complex Analysis (24UMA6CC14) as 6 hours and 5 credits in Semester VI of BSc Mathematics for the 2024-2025 batch and onwards*
b. *the syllabus of CC-III Mathematical Foundation (25PIT1CC3) for MSc Information Technology for the 2025-2026 batch and onwards*

*as recommended by the Board of Studies in Mathematics and moved by the Chairman,* ***Dr S Premalatha,*** *in the meeting, the same be approved as given in* ***Annexure G***

**RESOLUTION NO.12/25/10**

To ratify the credits of CPIV-Electricity and Magnetism (24UPH4CC4P) as 3 in Semester IV, the syllabus, hours and credits of the CCX-Classical and Quantum Physics (24UPH6CC10) in Semester VI with 6 hours and 5 credits of BSc Physics for the 2024-2025 batch and onwards

*Ratified the credits of CPIV-Electricity and Magnetism (24UPH4CC4P)*

*as 3 in Semester IV, the syllabus, hours and credits of the CCX-Classical and Quantum Physics (24UPH6CC10) in Semester VI with 6 hours and 5 credits of BSc Physics for the 2024-2025 batch and onwards*

*as moved by the Chairman,* ***Dr G Maheswari,*** *in the meeting and the same be approved as given in* ***Annexure H***

**RESOLUTION NO.12/25/11**

To consider and approve

a. The ratification of the credits of CPIV- Inorganic Qualitative Analysis (24UCH4CC4P) as 3 in Semester IV, the syllabus and hours of the CCIX-Organic Chemistry-II (24UCH6CC9) as 6 hours and the credits of CCX Physical Chemistry-II (24UCH6CC10) as 5 credits in Semester VI of BSc Physics for the 2024-2025 batch and onwards

b. The ratification in syllabus of CCII-Structure and Bonding in Inorganic Compounds (25PCH1CC2) in Semester I of M.Sc., Chemistry of the 2025-2026 batch and onwards

*Considered and approved*

*a. The ratification of the credits of CPIV- Inorganic Qualitative Analysis (24UCH4CC4P) as 3 in Semester IV, the syllabus and hours of the CCIX-Organic Chemistry-II (24UCH6CC9) as 6 hours and the credits of CCX Physical Chemistry-II (24UCH6CC10) as 5 credits in Semester VI of BSc Physics for the 2024-2025 batch and onwards*

*b. The ratification in syllabus of CCII-Structure and Bonding in Inorganic Compounds (25PCH1CC2) in Semester I of M.Sc., Chemistry of the 2025-2026 batch and onwards*

*as recommended by the Board of Studies in Chemistry and moved by the Chairman,* ***Dr P. Pungayee @ Amirtham*** *in the meeting and the same be approved as given in* ***Annexure I***

**RESOLUTION NO.12/25/12**

To consider and approve:

a. To consider and approve the ratification of the credits of CPIV-SQL & PLSQL(P)(24UCS4CC5P) as 3 in Semester IV. The introduction of CCV- Python Programming(24UCS5CC5) and CPVI- Python Programming(P)(24UCS5CC6P) in Semester V. Shifting of the CCIX Programming in PHP (24UCS6CC9/ 23UCA5CC6) and CPVII Programming in PHP(P) (24UCS6CC7P) from V Semester to VI Semester. Change of credit of the CCVIII

Cloud Computing and its Applications(24UCS6CC8) as 5 credits and the Shifting of CCIX Cyber Security to CCX in Semester VI for B. Sc Computer Science of the 2024-2025 batch and onwards.

b. Revision of Syllabus of CCXII Python Programming(T&P) with Course code 24UCG6CC12 in Semester VI for BSc Computer Science with Cognitive Systems of 2023-2024 batch and onwards

c. The change of credits of the AECC_IV Campus to Corporate (24UGCM) as 1 credit in Semester IV for BSc Computer Science with Cognitive Systems of the 2024-2025 batch and onwards

**Considered and approved**

a. *To consider and approve the ratification of the credits of CPIV-SQL & PLSQL(P)(24UCS4CC5P) as 3 in Semester IV. The introduction of CCV- Python Programming(24UCS5CC5) and CPVI- Python Programming(P)(24UCS5CC6P) in Semester V. Shifting of the CCIX Programming in PHP (24UCS6CC9/ 23UCA5CC6) and CPVII Programming in PHP(P) (24UCS6CC7P) from V Semester to VI Semester. Change of credit of the CCVIII Cloud Computing and its Applications(24UCS6CC8) to 5 credits and the Shifting of CCIX Cyber Security to CCX in Semester VI for B. Sc Computer Science of the 2024-2025 batch and onwards.*

b. *Revision of Syllabus of CCXII Python Programming(T&P) with Course code 24UCG6CC12* in Semester VI *for BSc Computer Science with Cognitive Systems of 2023-2024 batch and onwards*

c. *The change of credits of the AECC-IV Campus to Corporate (24UGCM) as 1 in Semester IV for BSc Computer Science with Cognitive Systems of the 2024-2025 batch and onwards*

*as recommended by the Board of Studies in Computer Science and moved by the Chairman,* ***Dr Sinthu Janita Prakash,*** *in the meeting and the same be approved as given in* ***Annexure J***

**RESOLUTION NO.12/25/13**

To consider and approve the ratification of the credits of CPIV-Java Programming(P)(24UCH4CC4P) as 3 in Semester IV, the syllabus Hours and Credits of CC- X Operating Systems (24UCA6CC10) are changed as 6 hours and 5 credits in Semester IV of BCA for the 2024-2025 batch and onwards

*Considered and approved the ratification of the credits of CPIV-Java*

*Programming(P)(24UCH4CC4P) as 3 in Semester IV, the syllabus Hours and Credits of CC- X Operating Systems (24UCA6CC10) are changed as 6 hours and 5 credits in Semester IV of BCA for the 2024-2025 batch and onwards*

*as recommended by the Board of Studies in Computer Applications and moved by the Chairman,* ***Dr R Merlin Packiam,*** *in the meeting and the same be approved as given in* ***Annexure K***

**RESOLUTION NO.12/25/14**

To consider and approve

a. The ratification of the credits of CPIV-Java Programming(P)(24UIT4CC4P) as 3 in Semester IV, syllabus, Hours and credits of CCX- Web Technologies (24UIT6CC10) as 6 hours and 5 credits in semester VI of BSc Information Technology of 2024-2025 batch and onwards
b. Change of CC - I Programming in C and Data Structures as Programming in C and the revision of the syllabus of CP – I Programming in C (P) (25UAM1CC1P) in Semester I of BSc Information Technology of 2025-2026 batch and onwards
c. Confirmation of the PSO, the Programme Structure, Course Objectives, Course Outcomes, syllabi of Core Courses and Discipline Specific Elective Course–I of Semester-I of MSc Information Technology of 2025-2026 batch and onwards

*Considered and approved*

a. *The ratification of the credits of CPIV-Java Programming(P)(24UIT4CC4P) as 3 in Semester IV, Syllabus, Hours and credits of CCX- Web Technologies (24UIT6CC10) as 6 hours and 5 credits in semester VI of BSc Information Technology of 2024-2025 batch and onwards*
b. *Change of CC - I Programming in C and Data Structures as Programming in C and the revision of the syllabus of CP – I Programming in C (P) (25UAM1CC1P) in Semester I of BSc Information Technology of 2025-2026 batch and onwards*
c. *Confirmation of the PSO, the Programme Structure, Course Objectives, Course Outcomes, syllabi of Core Courses and Discipline Specific Elective Course–I of Semester-I of MSc Information Technology of 2025-2026 batch and onwards*

*as recommended by the Board of Studies in Information Technology and moved by the Chairman,* ***Dr M Parveen,*** *in the meeting and the same be approved as given in* ***Annexure L***

**RESOLUTION NO.12/25/15**

To consider and approve the ratification of the credits of CPIV-Immunology(P) (24UMB4CC4P) as 3 credits in Semester IV and the credits of the CCX-Food and Dairy Microbiology (24UMB6CC10) as 5 credits in Semester VI of BSc Microbiology for the 2024-2025 batch and onwards

*Considered and approved the ratification of the credits of CPIV-Immunology(P) (24UMB4CC4P) as 3 credits in Semester IV and the credits of the CCX-Food and Dairy Microbiology (24UMB6CC10) as 5 credits* in Semester VI *of BSc Microbiology for the 2024-2025 batch and onwards*

*as recommended by the Board of Studies in Microbiology and moved by the Chairman,* ***Dr B. Thamilmaraiselvi,*** *in the meeting, and the same be approved as given in* ***Annexure M***

**RESOLUTION NO.12/25/16**

To consider and approve the ratification of the credits of CPIV-Immunology(P) (24UBT4CC4P) as 3 credits in Semester IV and the credits of the CCX-IPR, Biosafety and Bioethics (24UBT6CC10) as 5 credits in Semester VI for BSc Biotechnology for the 2024-2025 batch and onwards

*Considered and approved the ratification of the credits of CPIV-Immunology(P) (24UBT4CC4P) as 3 credits in Semester IV and the credits of the CCX-IPR, Biosafety and Bioethics (24UBT6CC10) as 5 credits* in Semester VI *for BSc Biotechnology for the 2024-2025 batch and onwards*

*as recommended by the Board of Studies in Biotechnology and moved by the Chairman,* ***Dr R Rameswari,*** *in the meeting and the same be approved as given in* ***Annexure N***

**RESOLUTION NO.12/25/17**

To consider and approve the ratification of the credits of CPIV-Diet Therapy (P) (24UND4CC4P) as 3 credits in Semester IV and the syllabus, hours and credits of the CCX-Food Service Management (24UND6CC10) is changed as 6 hours and 5 credits in Semester VI of BSc Nutrition and Dietetics for the 2024-2025 batch and onwards

*Considered and approved the ratification of the credits of CPIV-Diet Therapy (P) (24UND4CC4P) as 3 credits in Semester IV, and the syllabus, hours and credits of the CCX-Food Service Management (24UND6CC10) are changed as 6 hours and 5 credits in Semester VI of BSc Nutrition and Dietetics for the 2024-2025 batch and onwards*

*as recommended by the Board of Studies in Food Service Management and Dietetics, and moved by the Chairman,* ***Dr B. Thanuja,*** *in the meeting, and the same be approved as given in* ***Annexure O***

**RESOLUTION NO.12/25/18**

To confirm the PSO, the Programme Structure, Course Objectives, Course Outcomes, syllabi of Core Course, Core Practical and Allied Courses of Semester-I of BSc Fashion Technology and Costume Designing of 2025-2026 batch and onwards

*Confirmed the PSO, the Programme Structure, Course Objectives, Course Outcomes, syllabi of Core Course, Core Practical and Allied Courses of Semester-I of BSc Fashion Technology and Costume Designing of 2025-2026 batch and onwards*

*as recommended by the Board of Studies in Fashion Technology and Costume Designing, and moved by the Chairman,* ***Ms. C. Jenitta,*** *in the meeting and the same be approved as given in* ***Annexure P***

**RESOLUTION NO.12/25/19**

*Matters relating to the Controller of Examinations*

*i. The details uploaded to the National Academic Depository (NAD) were recorded as on 22.07.2025*

| | |
|---|---|
| *Total Marksheets Uploaded* | *- 33239* |
| *APAAR ID Created* | *- 4368* |
| *ABC Credit Data* | *- 16134* |

*ii. Ratification in the conduct of Instant Examination*

*iii. Results*

*Resolved to approve the ii. ratification in the conduct of Instant Examination iii. Conduct of End Semester Examinations and the Results of April 2025 were confirmed as given in* ***Annexure Q***

**RESOLUTION NO.12/25/20**

To fix the hours and credits for Part-I language courses and Part-II English course for AICTE-approved BBA and BCA programmes

*The Special Invitee, Dr. C. Prahalathan, Director of CCCD, instructed to follow the same syllabus, hours and credits as given by TANSCHE.*

*Resolved to follow the same Part-I Language* courses and Part-II English course *with 6 hours and 3 credits for AICTE-approved BBA and BCA programmes also.*

**Dr S Ramalakshmi**
**(Chairman of the Academic Council & The Principal(i/c))**

Principal I/C
Cauvery College For Women
(Autonomous)
Annamalai Nagar,
Tiruchirappalli - 620 018.
Tamilnadu.

CAUVERY COLLEGE FOR WOMEN (AUTONOMOUS) TRICHY-18

# CAUVERY COLLEGE FOR WOMEN (Autonomous)

Affiliated to Bharathidasan University
Accredited (4th Cycle) with A+ grade by NAAC
Tiruchirapalli-620018

## THE MINUTES OF THE TWELFTH MEETING OF THE ACADEMIC COUNCIL

The twelfth meeting of the Academic Council was held on Wednesday, August 6th, 2025, at 11:00 a.m. in the Rameswari Nallusamy Hall under the Chairmanship of **Dr. S Ramalakshmi**, Principal. The following members were present.

| S.No | Members | Designation | Signature |
|---|---|---|---|
| **Chairman** | | | |
| 1 | Dr. S. Ramalakshmi | Principal (i/c)<br>Cauvery College for Women (A) | |
| | **University Nominees** | | |
| 2 | Dr. S. Vanitha | Chair, School of Business Studies<br>Coordinator, Centre for Financial Markets<br>Dept of Commerce and Financial Studies<br>School of Business Studies<br>Bharathidasan University, Tiruchirappalli | 06/08/2025 |
| 3 | Dr. R. Balasubramani | Professor<br>Department of Library and Information Science<br>Bharathidasan University, Tiruchirappalli | |
| 4 | Dr. R. Rajaram | Professor<br>Department of Marine Science<br>Bharathidasan University<br>Tiruchirappalli | |
| | **Academic Experts** | | |
| 5 | Dr. S. Senthilnathan | Professor of Educational Technology<br>Chair, School of Education<br>Director, UGC- Malaviya Mission Teacher Training Centre<br>Bharathidasan University, Tiruchirappalli | |
| 6 | Dr A J Haja Mohideen | HoD of Economics<br>Addl. Vice Principal<br>Jamal Mohamed College, Tiruchirappalli | |
| 7 | Dr R. Qurshid Begum | Associate Professor of English<br>Additional Director -IQAC<br>St. Joseph's College (Autonomous), Tiruchirappalli | |
| | **Industry Expert** | | |
| 8 | Mr. Derrick Alex | AGM Operations<br>V Dart Technologies. Pvt. Ltd. | |
| | **Special Invitee** | | |
| 9 | Dr C. Prahalathan | Director<br>Council for College & Curriculum Development<br>Bharathidasan University, Trichy | |

| | | | |
|---|---|---|---|
| **Internal Members** | | | |
| **Heads of the Departments** | | | |
| 10 | Dr. A.R. Gomathi | HoD of Tamil | |
| 11 | Dr. P. Uma Maheswari | HoD of English | |
| 12 | Dr. S. Mettilda Buvaneswari | Dean of Arts, HoD of Social Work | |
| 13 | Dr. S Thamarai Selvi | Associate Professor, Dept of BBA | |
| 14 | Dr. N. Savithri | HoD of Commerce | |
| 15 | Dr. S. Premalatha | Deputy Controller of Examinations & HoD of Mathematics | |
| 16 | Dr. G. Maheswari | HoD of Physics | |
| 17 | Dr. P. Pungayee @ Amirtham | HoD of Chemistry | |
| 18 | Dr. R. Merlin Packiam | HoD of Computer Applications | |
| 19 | Dr. M. Parveen | Dean of Alumnae Relations & HoD of Information Technology | |
| 20 | Dr. B. Tamilmaraiselvi | HoD of Microbiology | |
| 21 | Dr. R. Rameshwari | HoD of Biotechnology | |
| 22 | Dr. B. Thanuja | HoD of Food Service Management & Dietetics | |
| 23 | Ms. C. Jenitta | HoD of Fashion Technology & Costume Designing | |
| **Senior Faculty in the College by Rotation** | | | |
| 24 | Ms N Girubagari | Vice Principal | |
| 25 | Dr N Sivapriya | Controller of Examinations | |
| 26 | Dr J Sangeetha | IQAC Coordinator | |
| 27 | Dr. A. Yashoda | Associate Professor, Dept. of Tamil | |
| 28 | Dr. N. Pushpa | Associate Professor, Dept. of Microbiology | |
| 29 | Dr. A. R. Jasmine Begum | Associate Professor, Dept of Computer Science | |
| 30 | Dr. R. Gayathri | Associate Professor, Dept of Physics | |
| **Student Representatives** | | | |
| 31 | Ms. S Shruthi | III BBA | |
| 32 | Ms. S Abinaya | III Tamil | |
| **Member Secretary** | | | |
| 33 | Dr. V. Sinthu Janita Prakash | Dean of Science, Professor & HoD of Computer Science | |


GPS Map Camera
Tiruchirappalli, Tamil Nadu, India
25, 25, Annamalai Nagar Main Rd, Annamalai Nagar -tiruchy, Annamalai Nagar, Woraiyur, Tiruchirappalli, Tamil Nadu 620003, India
Lat 10.831848° Long 78.681844°
06/08/2025 11:02 AM GMT +05:30


GPS Map Camera
Tiruchirappalli, Tamil Nadu, India
25, 25, Annamalai Nagar Main Rd, Annamalai Nagar -tiruchy, Annamalai Nagar, Woraiyur, Tiruchirappalli, Tamil Nadu 620003, India
Lat 10.831918° Long 78.681541°
06/08/2025 11:55 AM GMT +05:30








GPS Map Camera
Tiruchirappalli, Tamil Nadu, India
25, 25, Annamalai Nagar Main Rd, Annamalai Nagar -tiruchy, Annamalai Nagar, Woraiyur, Tiruchirappalli, Tamil Nadu 620003, India
Lat 10.831907° Long 78.681524°
06/08/2025 11:18 AM GMT +05:30




GPS Map Camera
Tiruchirappalli, Tamil Nadu, India
Google


GPS Map Camera
Tiruchirappalli, Tamil Nadu, India
Google


GPS Map Camera
Tiruchirappalli, Tamil Nadu, India
Rmmj+2h2, Tiruchirappalli, Tamil Nadu 620003, India
Lat 10.832136° Long 78.681391°
06/08/2025 11:53 AM GMT +05:30
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Tiruchirappalli, Tamil Nadu, India
25, 25, Annamalai Nagar Main Rd, Annamalai Nagar -tiruchy, Annamalai Nagar, Woraiyur, Tiruchirappalli, Tamil Nadu 620003, India
Lat 10.831839° Long 78.681532°
06/08/2025 11:01 AM GMT +05:30
Google


GPS Map Camera
Tiruchirappalli, Tamil Nadu, India
35, 25, Annamalai Nagar Main Rd, Annamalai Nagar -tiruchy, Annamalai Nagar, Woraiyur, Tiruchirappalli, Tamil Nadu 620003, India
Lat 10.831848° Long 78.681848°
06/08/2025 11:15 AM GMT +05:30
Google






GPS Map Camera
Tiruchirappalli, Tamil Nadu, India
25, 25, Annamalai Nagar Main Rd, Annamalai Nagar -tiruchy, Annamalai Nagar, Woraiyur, Tiruchirappalli, Tamil Nadu 620003, India
Lat 10.831843° Long 78.681832°
06/08/2025 11:02 AM GMT +05:30
Google

# ANNEXURE A

## Cauvery College for Women (Autonomous)

## Board of Studies (2025-2028)

Two subject experts from outside the Parent University to be nominated by the Academic Council.

List of Nominees of subject experts from outside the Parent University

### PG & Research Department of Tamil

1. Name : Dr. R. Kamarasu
   Designation : Professor & Head
   Address : Department of Folklore
   Tamil University, Tanjore- 613 010
   Mobile : 94435 89189
   E-mail: : Kamarasuera70@gmail.com

2. Name : Dr. D. Don Stony
   Designation : Assistant Professor
   Address : Department of Tamil
   Loyola College, Nungambakkam, Chennai - 34
   Mobile : 99449 11404
   E-mail : profdonstony@gmail.com

### PG Department of English

1. Name : Dr. V. Nagarajan
   Designation : Principal & Professor of English
   Address: : Govt. Arts and Science College
   Eriyur, Pennagaram Taluk,
   Dharmapuri Dt
   Mobile: 9486609596
   E-mail: : vnjuliavn@gmail.com

2. Name : Dr. Prajeesh Tomy
   Designation : Asst. Professor Sr.
   Address : Department of English
   School of Social Sciences and Languages
   VIT University, Vellore 632014
   Mobile 8015437432
   E-mail : prajeesh.tomy@vit.ac.in

## PG & Research Department of Social Work

1. Name : Dr Nalini. R
   Designation : Professor
   Address : Department of Social Work
   School of Social Sciences & International Studies
   R Venkat Raman Nagar, Kalapet, Pondicherry University
   Pondicherry - 605 014
   Mobile 9489145171
   E-mail : nalinir.sws@pondiuni.edu.in, nalini.ranganathan@gmail.com

2. Name : Dr. A. Sylvia Daisy
   Designation : Associate Professor
   Address : Department of Social Work
   Madras Christian College, Tambaram, Chennai – 600 059
   Mobile 9840224380
   Email : sylvia@mcc.edu.in

## Department of Business Administration

1. Name : Dr. R. Murali
   Designation : Senior Assistant Professor
   Address : MCC Boyd Tandon School of Business, Madras Christian College Tambaram, Chennai – 600 059.
   Mobile 9944188439
   E-mail : muraliramachandran@mccbtsb.edu.in

2. Name : Dr. R. Deepa
   Designation : Associate Professor & Head, Faculty of Human Resources
   Chief Coordinator - PSG Center for Academic Research and Excellence
   Address : PSG Institute of Management, Peelamedu, Coimbatore- 641004.
   Mobile 98436 91919
   E-mail : deepa@psgim.ac.in

## PG & Research Department of Commerce

1. Name : Dr. N. Sakthivel
   Designation : Associate Professor & Head
   Address : Department of Commerce (PA)
   Gobi Arts & Science College, Gobichettipalayam – 638 453
   Mobile : 9698626997
   E-mail : sakthivelgasc@gmail.com

2. Name : Dr. Saiganesh Somasekaran
   Designation : Professor, School of Commerce and Management
   Address : Dayananda Sagar University, Bangalore, Karnataka – 562 112
   Mobile : 9994780365
   E-mail : saiganeshrs@gmail.com

## PG & Research Department of Mathematics

1. Name : Dr. N. ANBAZHAGAN
   Designation : Professor and Head
   Address : Department of Mathematics
   Alagappa University, Karaikudi-630003.
   Mobile 9790292525
   E-mail : anbazhann@alagappauniversity.ac.in

2. Name : Dr. P. JAYARAMAN
   Designation : Assistant Professor
   Address : Department of Applied Mathematics
   Bharathiar University, Coimbatore-641046.
   Mobile 9487762007
   E-mail : pjramanmath2016@buc.edu.in

## PG & Research Department of Physics

1. Name : Dr. D. V. Senthilkumar
   Designation : Associate Professor
   Address : School of Physics, Indian Institute of Science Education and Research
   Maruthamala P.O, Vithura, Thiruvananthapuram - 695551
   Mobile 8903555853
   E-mail : skumar@iisertvm.ac.in

2. Name : Dr. A. Leo Rajesh
   Designation : Associate Professor
   Address : Department of Physics
   Pondicherry University, Puducherry- 605014.
   Mobile 9444122070
   E-mail : aleorajesh@gmail.com

## PG and Research Department of Chemistry

1. Name: : Dr. R. Karvembu
   Designation : Professor
   Address : Department of Chemistry
   National Institute of Technology
   Tiruchirappalli – 620 015.
   Mobile 9442268653
   Email : kar@nitt.edu

2. Name : Dr. K. Giribabu
   Designation : Senior Scientist
   CSIR Central Electrochemical Research Institute,
   Karaikudi – 630 003.
   Mobile : 9500486032
   E-mail : giribabuk@cecri.res.in

## PG & Research Department of Computer Science


1. Name : Dr. N. Sasikala Devi
   Designation : Associate Professor
   Address : Department of Computer Science & Engineering
   School of Computing, SASTRA Deemed University
   Thanjavur -613 401
   Mobile 80988 46368
   E-mail : sasi@cse.sastra.edu

2. Name : Dr B Subashini
   Designation : Assistant Professor
   Address : Thiagarajar College, Madurai - 625 009
   Mobile 88709 03334
   E-mail : mrityunjayarasu@gmail.com


## Department of Computer Applications


1. Name : Dr. J. Vandarkuzhali
   Designation : Assistant Professor
   Address : PG and Research Department of Computer Science
   Erode Arts and Science College [Autonomous]
   Rangampalayam, Erode 638009
   Mobile : 94425 77427
   E-mail : j.vandarkuzhali@easc.ac.in

2. Name : Dr. S. Sivagurunathan
   Designation : Assistant Professor
   Address : Dept. of Computer Science and Applications
   Gandhigram Rural Institute (Deemed to be University)
   Dindigul
   Mobile: 94863 76381
   E-mail : svgrnth@gmail.com


## PG Department of Information Technology


1. Name : Dr. S. Kanchana,
   Designation : Associate Professor
   Address : PSG College of Arts and Science, Coimbatore - 641014.
   Mobile 9345245859
   E-mail : kanchana@psgcas.ac.in

2. Name : Dr S. Deepa
   Designation : Associate professor
   Department of Computer Science
   Address : Christ (Deemed to be University), Nagasandra, Bangalore 560073
   Mobile 9448293490
   E-mail : deepa.spjm74@yahoo.com

## PG & Research Department of Microbiology

1. Name : Dr. D. Sangeetha
   Designation : Assistant Professor
   Address : Department of Microbiology, Annamalai University, Chidambaram.
   Mobile 9486680815
   E-mail : sangeethadau@gmail.com

2. Name : Dr. T. Kavitha
   Designation : Assistant Professor
   Address : Department of Microbiology, School of Biological Sciences
   Science Campus, Alagappa University, Karaikudi-630003
   Mobile : 9965363456, 4565228095
   E-mail : kavithat@alagappauniversity.ac.in

## Department of Biotechnology

**1.** Name : Dr. R. Vijaya
   Designation : Assistant Professor
   Address : Department of Pharmaceutical Technology
   UCE - BIT Campus
   Tiruchirapalli 620 024
   Mobile 9003533096
   E-mail : vijaya@mail.aubit.edu.in

**2.** Name : DR. V. MANIMEKALAI
   Designation : Associate Professor and Head
   Address : Department of Botany
   Sri Parasakthi College for Women, Courtallam – 627 802.
   Mobile 9486702263
   E-mail : sehimaravi@gmail.com

## PG Department of Food Service Management and Dietetics

1. Name : Dr. A. Thahira Banu
   Designation : Associate Professor
   Address : Department of Home Science
   The Gandhigram Rural Institute (Deemed to be University)
   Gandhigram, Dindigul -624 302
   Mobile 9486889973
   E-mail : a.thahirabanu@ruraluniv.ac.in

2. Name : Dr. S. Uma Mageshwari
   Designation : Professor
   Address : Dept of Food Service Management and Dietetics
   Avinashilingam Institute for Home Science and Higher
   Education for Women, Coimbatore – 641 043.
   Mobile 9787733663
   E-mail : uma_fsmd@avinuty.ac.in

## PG Department of Fashion Technology and Costume Designing

1. Name : Dr.S. Grace Annapoorani
   Designation : Professor,
   Address : Department of Textiles and Apparel Design
   Bharathiar University, Coimbatore
   Mobile : 9500509797
   Email id : gracetad@buc.edu.in

2. Name : Dr.M. Latha
   Designation : Assistant Professor,
   Address : Department of Textiles and Apparel Design
   Periyar University, Salem-636011
   Mobile : 9364156030
   Email id : latha@periyaruniversity.ac.in

## Part I – Other Language: HINDI

1. Name : Dr. A. Saframma
   Designation : Assistant Professor & Head
   Address : Goripalayam, Madurai-2
   Mobile 9500435727
   E-mail : saframma@americancollege.edu.in

2. Name : Dr. Supriya E
   Designation : Assistant professor
   Address : Vellod, Thathaneri, Madurai.
   Mobile 88480 21650
   E-mail : Supriyapreman10@gmail.com

## Part I -Other Language: FRENCH

1. Name : G. Victor Packiyaraj
   Designation : Assistant Professor
   Address : Department of French,
   The American College, Madurai- 625002
   Mobile 9942795356
   E-mail : victorpackiyaraj@americancollege.edu.in

2. Name : Dr. Santo Micheline Sangeetha
   Designation : Coordinator
   Address : Department of French, Lady Doak College, Madurai
   Mobile 9940018443
   E-mail : santomicheline@gmail.com

## Part I Other Language: Sanskrit


1. Name : Dr. Latha Shridhar
   Designation : Assistant Professor
   Address : Sri Sarada College for Women
   Salem – 636 016
   Mobile 9865670892
   E-mail : gaargi71@gmail.com

2. Name : Dr. S. Muthu
   Designation : Associate Professor
   Address : Vivekananda College, Chennai – 600 004
   Mobile 94449 10669
   E-mail : sdrmuthu1@gmail.com

# ANNEXURE B

CAUVERY COLLEGE FOR WOMEN (AUTONOMOUS)

Changes made for the 2024-2025 batch and onwards

For UG

- No changes in Semester I & II
- Inclusion of Health and Wellness in Semester III
- Inclusion of SWAYAM in Semesters III & IV as NME Courses
- Inclusion of NCC courses in Semesters III & IV as NME Courses
- Internship for 30 days duration during the IV Semester Summer Holidays, which will be evaluated in the V Semester
- Equal credits are given for all Core Courses and Core Practical. Changes made in Semester III onwards
- Hours and Credits for Project Work have been changed

For UG

| Programme | Course | No of Courses | Hrs/ Course | Credits/ Course |
|---|---|---|---|---|
| **Arts** | Core (Theory & Practical) | 14 | 5/6 | 5 |
| **Mathematics** | Core (Theory) | 13 | 4/5 | 4 |
| | | | 6 | 5 |
| **Science** | Core (Theory) | 9 | 5/6 | 5 |
| | Core (Practical) | 6 | 3/4 | 3 |

For PG

| Course | No of Courses | Hrs/ Course | Credits/ Course |
|---|---|---|---|
| Core Course – (CC) | 12 | 5/6 | 5 |
| Core Choice Course– (CCC) | 3 | 4/5/6 | 4 |
| Discipline Specific Elective- (DSE) | 3 | 4/5/6 | 3 |

Project Work

| Course | Hours | Credits/ Course |
|---|---|---|
| Arts | 7 | 4 |
| Mathematics | 4 | 4 |
| Science | 4 | 3 |
| PG (ALL) | 9 | 5 |

# CAUVERY COLLEGE FOR WOMEN (AUTONOMOUS)

DEPARTMENT OF B.A /B.SW/BBA/B.Com _____

LEARNING OUTCOME-BASED CURRICULUM FRAMEWORK (CBCS - LOCF)

(For the Candidates admitted from the Academic year 2024-2025 and onwards)

| Semester | Part | Course | Course Title | Course Code | Inst. Hrs. / week | Credits | Exam | | | Total |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | Hrs. | Marks | | |
| | | | | | | | | Int | Ext | |
| I | I | Language Course-I (LC) | | | 6 | 3 | 3 | 25 | 75 | 100 |
| | II | English Language Course- I (ELC) | | | 6 | 3 | 3 | 25 | 75 | 100 |
| | III | Core Course – I(CC) | | | 6 | 5 | 3 | 25 | 75 | 100 |
| | | Core Course- II (CC) | | | 6 | 5 | 3 | 25 | 75 | 100 |
| | | First Allied Course- I (AC) | | | 4 | 3 | 3 | 25 | 75 | 100 |
| | IV | Ability Enhancement Compulsory Course-I (AECC) | Value Education | 23UGVE | 2 | 2 | - | 100 | - | 100 |
| | Total | | | | **30** | **21** | | | | **600** |
| II | I | Language Course-II(LC) | | | 6 | 3 | 3 | 25 | 75 | 100 |
| | II | English Language Course-II(ELC) | | | 6 | 3 | 3 | 25 | 75 | 100 |
| | III | Core Course – III (CC) | | | 6 | 5 | 3 | 25 | 75 | 100 |
| | | Core Course- IV (CC) | | | 6 | 5 | 3 | 25 | 75 | 100 |
| | | First Allied Course – II (AC) | | | 4 | 3 | 3 | 25 | 75 | 100 |
| | IV | Ability Enhancement Compulsory Course-II (AECC) | Environmental Studies | 22UGEVS | 2 | 2 | - | 100 | - | 100 |
| | Extra Credit Course | | SWAYAM | As per UGC Recommendation | | | | | | |
| | Total | | | | **30** | **21** | | | | **600** |
| III | I | Language Course-III (LC) | | | 6 | 3 | 3 | 25 | 75 | 100 |
| | II | English Language Course-III(ELC) | | | 6 | 3 | 3 | 25 | 75 | 100 |
| | III | Core Course– V(CC) | | | 5 | 5 | 3 | 25 | 75 | 100 |
| | | Core Course - VI(CC) | | | 5 | 5 | 3 | 25 | 75 | 100 |
| | | Second Allied Course-I (AC) | | | 4 | 3 | 3 | 25 | 75 | 100 |
| | IV | Ability Enhancement Compulsory Course-III (AECC) | Innovation and Entrepreneurship | 22UGIE | 2 | 1 | - | 100 | - | 100 |
| | | Ability Enhancement Compulsory Course-IV (AECC) | Health and Wellness | 24UGHW | 2* | 1 | | 100 | | 100 |
| | | Generic Elective Course- I (GEC) | Introduction to NCC@ | 24UNC3GEC1 | 2 | 2 | 2 | - | 100 | 100 |
| | | | Basic Tamil – I | 22ULC3BT1 | | | 3 | 25 | 75 | |
| | | | Special Tamil – I | 22ULC3ST1 | | | | | | |
| | Extra Credit Course | | SWAYAM | As per UGC Recommendation | | | | | | |
| | | | Total | | **30** | **23** | | | | **800** |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| IV | I | Language Course - IV (LC) | | | 6 | 3 | 3 | 25 | 75 | 100 |
| | II | English Language Course – IV (ELC) | | | 6 | 3 | 3 | 25 | 75 | 100 |
| | III | Core Course – VII(CC) | | | 5 | 5 | 3 | 25 | 75 | 100 |
| | | Core Course – VIII(CC) | | | 5 | 5 | 3 | 25 | 75 | 100 |
| | | Second Allied Course- II (AC) | | | 4 | 3 | 3 | 25 | 75 | 100 |
| | IV | Generic Elective Course- II (GEC) @ | Specialization in Army@ | 24UNC4GEC2 | 2 | 2 | 2 | - | 100 | 100 |
| | | | | | | | 3 | 25 | 75 | |
| | | | Basic Tamil - II | 22ULC4BT2 | | | | | | |
| | | | Special Tamil -II | 22ULC4ST2 | | | | | | |
| | | Skill Enhancement Course – I (SEC) | | 22UXX4SEC1P | 2 | 2 | 3 | 40 | 60 | 100 |
| | Extra Credit Course | | SWAYAM | As per UGC Recommendation | | | | | | |
| | | Total | | | **30** | **23** | | | | **700** |

**30 Days INTERNSHIP during Semester Holidays**

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| V | III | Core Course – IX(CC) | | | 6 | 5 | 3 | 25 | 75 | 100 |
| | | Core Course – X(CC) | | | 5 | 5 | 3 | 25 | 75 | 100 |
| | | Core Course - XI(CC) | | | 5 | 5 | 3 | 25 | 75 | 100 |
| | | Core Course – XII(CC) | | | 5 | 5 | 3 | 25 | 75 | 100 |
| | | Internship | | 24UXX5INT | - | 2 | | | | 100 |
| | | Discipline Specific Elective – I (DSE) | A. | 22UXX5DSE1A | 5 | 3 | 3 | 25 | 75 | 100 |
| | | | B. | 22UXX5DSE1B | | | | | | |
| | | | C. | 22UXX5DSE1C | | | | | | |
| | IV | Ability Enhancement Compulsory Course-V(AECC) | UGC Jeevan Kaushal - Professional Skills | 22UGPS | 2 | 2 | - | 100 | - | 100 |
| | | Skill Enhancement Course – II (SEC) | | 22UXX5SEC2AP | 2 | 2 | 3 | 40 | 60 | 100 |
| | Extra Credit Course | | SWAYAM | As per UGC Recommendation | | | | | | |
| | Total | | | | **30** | **29** | | | | **800** |
| VI | III | Core Course – XIII(CC) | | | 6 | 5 | 3 | 25 | 75 | 100 |
| | | Core Course –XIV(CC) | | | 6 | 5 | 3 | 25 | 75 | 100 |
| | | Core Course – XV(CC) | Cyber Security | 22UGCS | 5 | 4 | 3 | 25 | 75 | 100 |
| | | Discipline Specific Elective – II (DSE) | A. | 22UXX6DSE2A | 5 | 3 | 3 | 25 | 75 | 100 |
| | | | B. | 22UXX6DSE2B | | | | | | |
| | | | C. | 22UXX6DSE2C | | | | | | |
| | III | Project | Project Work | 24UXX6PW | 7 | 4 | - | - | 100 | 100 |
| | V | Ability Enhancement Compulsory Course-VI (AECC) | Gender Studies | 22UGGS | 1 | 1 | - | 100 | - | 100 |
| | | Extension activity | | 22UGEA | - | 1 | - | - | - | - |
| | | | | **Total** | **30** | **23** | | | | **600** |
| | | | | **Grand Total** | **180** | **140** | | | | **4100** |

- **@ NCC is one of the choices in GEC. Only the NCC cadets are eligible to chooses this course. However, NCC Course is not a Compulsory Course for the NCC Cadets. If the Cadet has not studied Tamil in the school level, she has to take Basic Tamil Course.**
- *** Health and Wellness shall be outside instruction hours**

B.A /B.SW/BBA/B.Com

LEARNING OUTCOME-BASED CURRICULUM FRAMEWORK (CBCS - LOCF)
(For the Candidates admitted from the Academic year 2024-2025 and onwards)

Curriculum Structure

## Courses & Credits for UG Programmes (Arts)

| Part | Course | No of Courses | Hrs/ Course | Credits | Total |
|---|---|---|---|---|---|
| I | Tamil/ Other Language | 4 | 6 | 4*3=12 | 12 |
| II | English | 4 | 6 | 4*312 | 12 |
| III | Core (Theory & Practical)<br>Cyber Security | 14<br>1 | 5/6<br>5 | 14*5=70<br>1*4=4 | 98 |
| | Project Work | 1 | 7 | 4 | |
| | Internship | 1 | - | 2 | |
| | First Allied | 2 | 3/4 | 2*3=6 | |
| | Second Allied | 2 | 3/4 | 2*3=6 | |
| | DSE | 2 | 5 | 2*3=6 | |
| IV | GEC | 2 | 2 | 2*2=4 | 17 |
| | SEC | 2 | 2 | 2*2=4 | |
| | AECC-I Universal Human Values | 1 | 2 | 2 | |
| | AECC-II-Environmental Studies | 1 | 2 | 2 | |
| | AECC-III-Innovation and Entrepreneurship | 1 | 2 | 1 | |
| | AECC-IV-Health and Wellness | 1 | - | 1 | |
| | AECC-V-Professional Skills | 1 | 2 | 2 | |
| | AECC-V Gender Studies | 1 | 1 | 1 | |
| V | Extension Activities | -- | - | 1 | 01 |
| | | **41** | | 140 | **140** |

# CAUVERY COLLEGE FOR WOMEN (AUTONOMOUS)

## DEPARTMENT OF MATHEMATICS

LEARNING OUTCOME BASED CURRICULUM FRAMEWORK (CBCS - LOCF)

(For the Candidates admitted from the Academic year 2024-2025 and onwards)

| Semester | Part | Course | Course Title | Course Code | Inst. Hrs. / | Credits | Exam | | | Total |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | Hrs. | Marks Int | Marks Ext | |
| I | I | Language Course-I (LC) | | | 6 | 3 | 3 | 25 | 75 | 100 |
| | II | English Language Course- I(ELC) | | | 6 | 3 | 3 | 25 | 75 | 100 |
| | III | Core Course – I(CC) | | | 4 | 4 | 3 | 25 | 75 | 100 |
| | | Core Course - II (CC) | | | 5 | 4 | 3 | 25 | 75 | 100 |
| | | First Allied C2dourse- I (AC) | | | 5 | 4 | 2 | 25 | 75 | 100 |
| | | First Allied Course- II (AC) | | | 2 | 2 | 3 | 25 | 75 | 100 |
| | IV | Ability Enhancement Compulsory Course-I (AECC) | Value Education | 23UGVE | 2 | 2 | - | 100 | - | 100 |
| | **Total** | | | | **30** | **22** | | | | **700** |
| II | I | Language Course-II(LC) | | | 6 | 3 | 3 | 25 | 75 | 100 |
| | II | English Language Course-II(ELC) | | | 6 | 3 | 3 | 25 | 75 | 100 |
| | III | Core Course – III (CC) | | | 4 | 4 | 3 | 25 | 75 | 100 |
| | | Core Course - IV (CP) | | | 4 | 4 | 3 | 25 | 75 | 100 |
| | | Core Practical-I(CP) | | | 2 | 2 | 3 | 40 | 60 | 100 |
| | | First Allied Course – III (AC) | | | 4 | 3 | 3 | 25 | 75 | 100 |
| | IV | Ability Enhancement Compulsory Course-II (AECC) | Environmental Studies | 22UGEVS | 2 | 2 | - | 100 | - | 100 |
| | | Ability Enhancement Compulsory Course-III (AECC) | Innovation and Entrepreneurship | 22UGIE | 2 | 1 | - | 100 | - | 100 |
| | Extra Credit Course | | SWAYAM | As per UGC Recommendation | | | | | | |
| | **Total** | | | | **30** | **22** | | | | **800** |
| III | I | Language Course-III (LC) | | | 6 | 3 | 3 | 25 | 75 | 100 |
| | II | English Language Course-III(ELC) | | | 6 | 3 | 3 | 25 | 75 | 100 |
| | III | Core Course– V(CC) | | | 4 | 4 | 3 | 25 | 75 | 100 |
| | | Core Course -VI(CC) | | | 5 | 4 | 3 | 25 | 75 | 100 |
| | | Second Allied Course-I (AC) | | | 4 | 3 | 3 | 25 | 75 | 100 |
| | | Second Allied Course- II (AP) | | | 3 | 3 | 3 | 25 | 75 | 100 |
| | IV | Ability Enhancement Compulsory Course-IV (AECC)Health and Wellness | | 24UGHW | 2* | 1 | | 100 | | 100 |
| | | Generic Elective Course- I (GEC) | Introduction to NCC@ | 24UNC3GEC1 | 2 | 2 | 3 | 25 | 75 | 100 |
| | | | Basic Tamil - I | 22ULC3BT1 | | | | | | |
| | | | Special Tamil - I | 22ULC3ST1 | | | | | | |
| | Extra Credit Course | | SWAYAM | As per UGC Recommendation | | | | | | |
| | **Total** | | | | **30** | **23** | | | | **800** |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| IV | I | Language Course - IV (LC) | | | 6 | 3 | 3 | 25 | 75 | 100 |
| | II | English Language Course – IV (ELC) | | | 6 | 3 | 3 | 25 | 75 | 100 |
| | III | Core Course – VII(CC) | | | 5 | 4 | 3 | 25 | 75 | 100 |
| | | Core Practical - VIII(CC) | | | 5 | 4 | 3 | 25 | 75 | 100 |
| | | Second Allied Course- III (AC) | | | 4 | 3 | 3 | | | 100 |
| | IV | Generic Elective Course- II (GEC) @ | Specialization in Army@ | 24UNC4GEC2 | 2 | 2 | 3 | 25 | 75 | 100 |
| | | | Basic Tamil - II | 22ULC4BT2 | | | | | | |
| | | | Special Tamil - II | 22ULC4ST2 | | | | | | |
| | | Skill Enhancement Course – I (SEC) | Practical | 22UXX4SEC1P | 2 | 2 | 3 | 40 | 60 | 100 |
| | Extra Credit Course | | SWAYAM | As per UGC Recommendation | | | | | | |
| | **Total** | | | | **30** | **21** | | | | **700** |
| | **30 Days INTERNSHIP during Semester Holidays** | | | | | | | | | |
| V | III | Core Course – IX(CC) | | | 6 | 5 | 3 | 25 | 75 | 100 |
| | | Core Course – X (CC) | | | 5 | 4 | 3 | 25 | 75 | 100 |
| | | Core Course - XI(CC) | | | 5 | 4 | 3 | 25 | 75 | 100 |
| | | Core Course – XII(CC) | | | 5 | 4 | 3 | 25 | 75 | 100 |
| | | Internship | Internship | 24UXX5INT | - | 2 | - | - | - | 100 |
| | | Discipline Specific Elective – I (DSE) | A. | 22UXX5DSE1A | 5 | 3 | 3 | 25 | 75 | 100 |
| | | | B. | 22UXX5DSE1B | | | | | | |
| | | | C. | 22UXX5DSE1C | | | | | | |
| | IV | Ability Enhancement Compulsory Course-V(AECC) | UGC Jeevan Kaushal -Professional Skills | 22UGPS | 2 | 2 | - | 100 | - | 100 |
| | | Skill Enhancement Course – II (SEC) | Practical | 22UXX5SEC2P | 2 | 2 | 3 | 40 | 60 | 100 |
| | Extra Credit Course | | SWAYAM | As per UGC Recommendation | | | | | | |
| | **Total** | | | | **30** | **26** | | | | **800** |
| VI | III | Core Course – XIII(CC) | | | 6 | 5 | 3 | 25 | 75 | 100 |
| | | Core Course – XIV(CC) | | | 5 | 4 | 3 | 25 | 75 | 100 |
| | | Core Course – XV(CC) | Cyber Security | 22UGCS | 5 | 4 | 3 | 25 | 75 | 100 |
| | | Core Course – XVI(CC) | | | 4 | 4 | 3 | 25 | 75 | 100 |
| | | Discipline Specific Elective – II (DSE) | A. | 22UXX6DSE2A | 5 | 3 | 3 | 25 | 75 | 100 |
| | | | B. | 22UXX6DSE2B | | | | | | |
| | | | C. | 22UXX6DSE2C | | | | | | |
| | | Project | Project Work | 24UXX6PW | 4 | 4 | - | - | 100 | 100 |
| | V | Ability Enhancement Compulsory Course-VI(AECC) | Gender Studies | 22UGGS | 1 | 1 | - | 100 | - | 100 |
| | | Extension activity | | 22UGEA | - | 1 | - | - | - | - |
| | | | | **Total** | **30** | **26** | | | | **700** |
| | | | | **Grand Total** | **180** | **140** | | | | **4500** |

- **@ NCC is one of the choices in GEC. Only the NCC cadets are eligible to chooses this course. However, NCC Course is not a Compulsory Course for the NCC Cadets. If the Cadet has not studied Tamil in the school level, she has to take Basic Tamil Course.**
- *** Health and Wellness shall be outside instruction hours**

DEPARTMENT OF MATHEMATICS

LEARNING OUTCOME BASED CURRICULUM FRAMEWORK (CBCS - LOCF)

(For the Candidates admitted from the Academic year 2024-2025 and onwards)

Curriculum Structure

## Courses & Credits for BSc Mathematics

| Part | Course | No. of Courses | Hours/ Course | Credits | Total Credits |
|---|---|---|---|---|---|
| I | Tamil/ Other Language | 4 | 6 | 12 | 12 |
| II | English | 4 | 6 | 12 | 12 |
| III | Core (Theory)<br>Core (Theory)<br>CP-I<br>Cyber Security | 13<br>2<br>1<br>1 | 4/5<br>6<br>2<br>5 | 13*4=52<br>2*5=10<br>1*2=2<br>1*4=4 | **98** |
| | Project Work | 1 | 4 | 4 | |
| | Internship | 1 | - | 2 | |
| | First Allied | 3 | 3/4/5 | 3*3=9 | |
| | Second Allied | 3 | 3/4/5 | 3*3=9 | |
| | DSE | 2 | 5 | 2*3=6 | |
| IV | GEC | 2 | 2 | 2*2=4 | 17 |
| | SEC | 2 | 2 | 2*2=4 | |
| | AECC-I -Universal Human Values | 1 | 2 | 2 | |
| | AECC-II-Environmental Studies | 1 | 2 | 2 | |
| | AECC-III-Innovation and Entrepreneurship | 1 | 2 | 1 | |
| | AECC-IV- Health and Wellness | 1 | - | 1 | |
| | AECC-V Professional Skills | 1 | 2 | 2 | |
| | AECC-VI Gender Studies | 1 | 1 | 1 | |
| V | Extension Activities | 0 | - | 1 | 01 |
| | | **45** | | 140 | **140** |

# CAUVERY COLLEGE FOR WOMEN (AUTONOMOUS)

DEPARTMENT OF BCA/ B.Sc

LEARNING OUTCOME BASED CURRICULUM FRAMEWORK (CBCS - LOCF)

(For the Candidates admitted from the Academic year 2024-2025 and onwards)

| Semester | Part | Course | Course Title | Course Code | Inst. Hrs. / | Credits | Exam | | | Total |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | Hrs. | Marks | | |
| | | | | | | | | Int | Ext | |
| I | I | Language Course-I (LC) | | | 6 | 3 | 3 | 25 | 75 | 100 |
| | II | English Language Course- I(ELC) | | | 6 | 3 | 3 | 25 | 75 | 100 |
| | III | Core Course – I(CC) | | | 5 | 5 | 3 | 25 | 75 | 100 |
| | | Core Practical - I (CP) | | | 3 | 3 | 3 | 40 | 60 | 100 |
| | | First Allied Course- I (AC) | | | 4 | 3 | 2 | 25 | 75 | 100 |
| | | First Allied Course- II (AC) | | | 4 | 3 | 3 | 25 | 75 | 100 |
| | IV | Ability Enhancement Compulsory Course-I (AECC) | Value Education | 23UGVE | 2 | 2 | - | 100 | - | 100 |
| | **Total** | | | | **30** | **22** | | | | **700** |
| II | I | Language Course-II(LC) | | | 6 | 3 | 3 | 25 | 75 | 100 |
| | II | English Language Course-II(ELC) | | | 6 | 3 | 3 | 25 | 75 | 100 |
| | III | Core Course – II (CC) | | | 5 | 5 | 3 | 25 | 75 | 100 |
| | | Core Practical - II (CP) | | | 3 | 3 | 3 | 40 | 60 | 100 |
| | | Core Course-III(CC) | | | 2 | 2 | 3 | 25 | 75 | 100 |
| | | First Allied Course – III (AC) | | | 4 | 3 | 3 | 25 | 75 | 100 |
| | IV | Ability Enhancement Compulsory Course-II (AECC) | Environmental Studies | 22UGEVS | 2 | 2 | - | 100 | - | 100 |
| | | Ability Enhancement Compulsory Course-III (AECC) | Innovation and Entrepreneurship | 22UGIE | 2 | 1 | - | 100 | - | 100 |
| | Extra Credit Course | | SWAYAM | | As per UGC Recommendation | | | | | |
| | **Total** | | | | **30** | **22** | | | | **800** |
| III | I | Language Course-III (LC) | | | 6 | 3 | 3 | 25 | 75 | 100 |
| | II | English Language Course-III(ELC) | | | 6 | 3 | 3 | 25 | 75 | 100 |
| | III | Core Course– IV(CC) | | | 5 | 5 | 3 | 25 | 75 | 100 |
| | | Core Practical - III(CP) | | | 3 | 3 | 3 | 40 | 60 | 100 |
| | | Second Allied Course-I (AC) | | | 4 | 3 | 3 | 25 | 75 | 100 |
| | | Second Allied Course- II (AP) | | | 4 | 3 | 3 | 25 | 75 | 100 |
| | IV | Ability Enhancement Compulsory Course-IV (AECC)Health and Wellness | | 24UGHW | 2* | 1 | | 100 | | 100 |
| | | Generic Elective Course- I (GEC) | SWAYAM | | 2 | 2 | 3 | 25 | 75 | 100 |
| | | | Introduction to NCC@ | 24UNC3GEC1 | | | | | | |
| | | | Basic Tamil - I | 22ULC3BT1 | | | | | | |
| | | | Special Tamil - I | 22ULC3ST1 | | | | | | |
| | Extra Credit Course | | SWAYAM | As per UGC Recommendation | | | | | | |
| | **Total** | | | | **30** | **23** | | | | **800** |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| IV | I | Language Course - IV (LC) | | | 6 | 3 | 3 | 25 | 75 | 100 |
| | II | English Language Course – IV (ELC) | | | 6 | 3 | 3 | 25 | 75 | 100 |
| | III | Core Course – V(CC) | | | 6 | 5 | 3 | 25 | 75 | 100 |
| | | Core Practical - IV(CP) | | 24 | 4 | 3 | 3 | 40 | 60 | 100 |
| | | Second Allied Course- III (AC) | | | 4 | 3 | 3 | | | 100 |
| | IV | Generic Elective Course- II (GEC) @ | Specialization in Army@ | 24UNC4GEC2 | 2 | 2 | 3 | 25 | 75 | 100 |
| | | | Basic Tamil - II | 22ULC4BT2 | | | | | | |
| | | | Special Tamil - II | 22ULC4ST2 | | | | | | |
| | | Skill Enhancement Course – I (SEC) | Practical | 22UXX4SEC1P | 2 | 2 | 3 | 40 | 60 | 100 |
| | | Extra Credit Course | SWAYAM | As per UGC Recommendation | | | | | | |
| | | **Total** | | | **30** | **21** | | | | **700** |
| | | **30 Days INTERNSHIP during Semester Holidays** | | | | | | | | |
| V | III | Core Course – VI(CC) | | | 6 | 5 | 3 | 25 | 75 | 100 |
| | | Core Practical – V(CP) | | | 3 | 3 | 3 | 40 | 60 | 100 |
| | | Core Course - VII(CC) | | | 6 | 5 | 3 | 25 | 75 | 100 |
| | | Core Course – VIII(CC) | | | 6 | 5 | 3 | 25 | 75 | 100 |
| | | Internship | Internship | 24UXX5INT | - | 2 | - | - | - | 100 |
| | | Discipline Specific Elective – I (DSE) | A. | 22UXX5DSE1A | 5 | 3 | 3 | 25 | 75 | 100 |
| | | | B. | 22UXX5DSE1B | | | | | | |
| | | | C. | 22UXX5DSE1C | | | | | | |
| | IV | Ability Enhancement Compulsory Course-V(AECC) | UGC Jeevan Kaushal -Professional Skills | 22UGPS | 2 | 2 | - | 100 | - | 100 |
| | | Skill Enhancement Course – II (SEC) | Practical | 22UXX5SEC2P | 2 | 2 | 3 | 40 | 60 | 100 |
| | | Extra Credit Course | SWAYAM | As per UGC Recommendation | | | | | | |
| | | **Total** | | | **30** | **27** | | | | **800** |
| VI | III | Core Course – IX(CC) | | | 6 | 5 | 3 | 25 | 75 | 100 |
| | | Core Course – X(CC) | | | 6 | 5 | 3 | 25 | 75 | 100 |
| | | Core Course – XI(CC) | Cyber Security | 22UGCS | 5 | 4 | 3 | 25 | 75 | 100 |
| | | Core Practical – VI(CP) | | | 3 | 3 | 3 | 40 | 60 | 100 |
| | | Discipline Specific Elective – II (DSE) | A. | 22UXX6DSE2A | 5 | 3 | 3 | 25 | 75 | 100 |
| | | | B. | 22UXX6DSE2B | | | | | | |
| | | | C. | 22UXX6DSE2C | | | | | | |
| | | Project | Project Work | 24UXX6PW | 4 | 3 | - | - | 100 | 100 |
| | V | Ability Enhancement Compulsory Course-VI(AECC) | Gender Studies | 22UGGS | 1 | 1 | - | 100 | - | 100 |
| | | Extension activity | | 22UGEA | - | 1 | - | - | - | - |
| | | | | **Total** | **30** | **25** | | | | **700** |
| | | | | **Grand Total** | **180** | **140** | | | | **4500** |

- **@ NCC is one of the choices in GEC. Only the NCC cadets are eligible to chooses this course. However, NCC Course is not a Compulsory Course for the NCC Cadets. If the Cadet has not studied Tamil in the school level, she has to take Basic Tamil Course.**
- *** Health and Wellness shall be outside instruction hours**

DEPARTMENT OF BCA/ B.Sc

LEARNING OUTCOME BASED CURRICULUM FRAMEWORK (CBCS - LOCF)

(For the Candidates admitted from the Academic year 2024-2025 and onwards)

Curriculum Structure

## Courses & Credits for UG Science Programmes

| Part | Course | No. of Courses | Hours/ Course | Credits | Total Credits |
|---|---|---|---|---|---|
| I | Tamil/ Other Language | 4 | 6 | 12 | 12 |
| II | English | 4 | 6 | 12 | 12 |
| III | Core (Theory)<br>Core (Practical)<br>CC/CP-III<br>Cyber Security | 9<br>6<br>1<br>1 | 5/6<br>3/4<br>2<br>5 | 9*5=45<br>6*3=18<br>1*2=2<br>1*4=4 | **98** |
| | Project Work | 1 | 4 | 3 | |
| | Internship | 1 | - | 2 | |
| | First Allied | 3 | 3/4 | 3*3=9 | |
| | Second Allied | 3 | 3/4 | 3*3=9 | |
| | DSE | 2 | 5 | 2*3=6 | |
| IV | GEC | 2 | 2 | 2*2=4 | 17 |
| | SEC | 2 | 2 | 2*2=4 | |
| | AECC-I -Universal Human Values | 1 | 2 | 2 | |
| | AECC-II-Environmental Studies | 1 | 2 | 2 | |
| | AECC-III-Innovation and Entrepreneurship | 1 | 2 | 1 | |
| | AECC-IV- Health and Wellness | 1 | - | 1 | |
| | AECC-V Professional Skills | 1 | 2 | 2 | |
| | AECC-VI Gender Studies | 1 | 1 | 1 | |
| V | Extension Activities | 0 | - | 1 | 01 |
| | | **45** | | 140 | **140** |

# CAUVERY COLLEGE FOR WOMEN (AUTONOMOUS)

PG & RESEARCH DEPARTMENT OF _____

M.A/ M.Com/ M. Sc_____

LEARNING OUTCOME-BASED CURRICULUM FRAMEWORK (CBCS – LOCF)

(For the Candidates admitted from the Academic year 2025-2026 onwards)

| Semester | Course | Course Title | Course Code | Inst. Hrs./ week | Credits | Exam Hrs. | Exam Marks Int. | Exam Marks Ext. | Total |
|---|---|---|---|---|---|---|---|---|---|
| I | Core Course– I (CC) | | | 6 | 5 | 3 | | | 100 |
| | Core Course – II (CC) | | | 6 | 5 | 3 | | | 100 |
| | Core Course –III (CC) | | | 6 | 5 | 3 | | | 100 |
| | Core Course - IV (CC) | | | 6 | 5 | 3 | | | 100 |
| | Discipline Specific Elective Course-I (DSE) | A. | 22PXX1DSE1A | 6 | 3 | 3 | | | 100 |
| | | B. | 22PXX1DSE1B | | | | | | |
| | | C. | 22PXX1DSE1C | | | | | | |
| | Total | | | 30 | 23 | | | | **500** |

**15 Days INTERNSHIP during Semester Holidays**

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| II | Core Course– V (CC) | | | 6 | 5 | 3 | | | 100 |
| | Core Course –VI (CC) | | | 6 | 5 | 3 | | | 100 |
| | Core Course - VII (CC) | | | 6 | 5 | 3 | | | 100 |
| | Core Choice Course– I (CCC) | A. | 22PXX2CCC1A | 6 | 4 | 3 | | | 100 |
| | | B. | 22PXX2CCC1B | | | | | | |
| | | C. | 22PXX2CCC1C | | | | | | |
| | Discipline Specific Elective Course-II (DSE) | A. | 22PXX2DSE2A | 6 | 3 | 3 | | | 100 |
| | | B. | 22PXX2DSE2B | | | | | | |
| | | C. | 22PXX2DSE2C | | | | | | |
| | Internship | Internship | 22PXX2INT | - | 2 | - | - | 100 | 100 |
| | Extra Credit Course | SWAYAM | As per UGC Recommendation | | | | | | |
| | Total | | | 30 | 24 | | | | **600** |
| III | Core Course–VIII (CC) | | | 6 | 5 | 3 | | | 100 |
| | Core Course – IX (CC) | | | 6 | 5 | 3 | | | 100 |
| | Core Course- X (CC) | | | 6 | 5 | 3 | | | 100 |
| | Core Choice Course– II (CCC) | A. Cyber Security | 22PGCS3CCC2A | 5 | 4 | 3 | 25 | 75 | 100 |
| | | B. | 22PXX3CCC2B | | | | | | |
| | | C. | 22PXX3CCC2C | | | | | | |
| | Discipline Specific Elective Course-III (DSE) | A. Competitive Examination | 22PXX3DSE3A | 4 | 3 | 3 | - | 100 | 100 |
| | | B. | 22PXX3DSE3B | | | 3 | 25 | 75 | |
| | | C. | 22PXX3DSE3C | | | | | | |
| | Generic Elective Course -I (GEC) | | 22PXX3GEC1 | 3 | 2 | 3 | 25 | 75 | 100 |
| | Extra Credit Course | SWAYAM | As per UGC Recommendation | | | | | | |
| | Total | | | **30** | 24 | | | | **600** |
| IV | Core Course-XI (CC) | | | 6 | 5 | 3 | | | 100 |
| | Core Course - XII (CC) | | | 6 | 5 | 3 | | | 100 |
| | Core Choice Course– III (CCC) | A. | 22PXX4CCC3A | 6 | 4 | 3 | | | 8100 |
| | | B. | 22PXX4CCC3B | | | | | | |
| | | C. | 22PXX4CCC3C | | | | | | |
| | Generic Elective Course- II (GEC) | | 22PXX4GEC2 | 3 | 2 | 3 | | | 100 |
| | Project | Project Work | 22PXX4PW | 9 | 5 | - | - | 100 | 100 |
| | Total | | | 30 | 21 | | | | **500** |
| | Grand Total | | | 120 | 92 | | | | **2200** |

# Courses & Credits for PG Arts Programmes

| Sl. No | Courses | No of Courses | Hours/Course | No of Credits | Marks |
|---|---|---|---|---|---|
| 1. | Core Course – (CC) | 12 | 5/6 | 12*5=60 | 1200 |
| 2. | Core Choice Course– (CCC) | 3 | 4/5/6 | 3*4=12 | 300 |
| 3. | Discipline Specific Elective- (DSE) | 3 | 4/5/6 | 3*3=9 | 300 |
| 4. | Generic Elective Course - (GEC) | 2 | 3 | 2*2=4 | 200 |
| 5. | Project | 1 | 9 | 5 | 100 |
| 6. | Internship | 1 | - | 2 | 100 |
| | Total | 22 | | 92 | 2200 |

| Sl. No | Courses | No of Courses | Hours/Course | No of Credits | Marks |
|---|---|---|---|---|---|
| 1. | Core Course – (CC) | 11 | 5/6 | 11*5=55 | 1200 |
| 2. | Core Choice Course– (CCC) | 4 | 4/5/6 | 4*4=16 | 300 |
| 3. | Discipline Specific Elective- (DSE) | 3 | 4/5/6 | 3*3=9 | 300 |
| 4. | Generic Elective Course - (GEC) | 2 | 3 | 2*2=4 | 200 |
| 5. | Project | 1 | 9 | 5 | 100 |
| 6. | Internship | 1 | - | 2 | 100 |
| | Total | 22 | | 92 | 2200 |

**காவேரி மகளிர் கல்லூரி (தன்னாட்சி)**

(தேசியத் தர நிர்ணயக் குழுவின் நான்காம் சுற்றில் A+ தகுதி பெற்றது)

**அண்ணாமலை நகர், திருச்சிராப்பள்ளி – 620018.**

**தமிழாய்வுத்துறை**

**பாடத்திட்டக் குழுக் கூட்டம் - நிகழ்ச்சி நிரல்**

**தமிழாய்வுத்துறையின் பன்னிரண்டாவது பாடத்திட்டக் குழுக் கூட்டத்தின் நிகழ்ச்சி நிரல் :**

**நாள் : 03.04.2025**

**நேரம் : முற்பகல் 11 மணி**

**இடம் : E8 அறை**

**பகுதி எண்.பா.தி.கு.12/25/01**

தமிழாய்வுத்துறையில் 2024-2025 கல்வியாண்டு முதல் வழங்கப்படும் இளங்கலைத் தமிழிலக்கியம் மூன்றாம், நான்காம், ஐந்தாம் மற்றும் ஆறாம் பருவங்களுக்கான பாட வரையறையில் மணிநேரம், கிரெடிட் மற்றும் பாடக்குறியீட்டு எண் மாற்றங்களை ஆலோசித்து அங்கீகாரமளித்துத் திருச்சிராப்பள்ளி காவேரி மகளிர் கல்லூரி (தன்னாட்சி) கல்விக்குழுவுக்குப் பரிந்துரை செய்தல்

**பகுதி எண்.பா.தி.கு.12/25/02**

தமிழாய்வுத்துறையில் 2024-2025 கல்வியாண்டு முதல் வழங்கப்படும் இளங்கலைத் தமிழிலக்கியத்திற்கான ஆறாம் பருவத்திற்கான பாடத்திட்ட மாற்றங்களை ஆலோசித்து அங்கீகாரமளித்துத் திருச்சிராப்பள்ளி காவேரி மகளிர் கல்லூரி (தன்னாட்சி) கல்விக்குழுவுக்குப் பரிந்துரை செய்தல்

**பகுதி எண்.பா.தி.கு.12/25/03**

தமிழாய்வுத்துறையில் 2025-2026 கல்வியாண்டு முதல் வழங்கப்படும் முதல் பருவத்திற்கான பகுதி 1 தமிழ் பாட வரையறையில் பாடத் தலைப்பு, பாடக் குறியீடு மற்றும் பாடத்திட்ட மாற்றத்தை ஆலோசித்து அங்கீகாரமளித்துத் திருச்சிராப்பள்ளி காவேரி மகளிர் கல்லூரி (தன்னாட்சி) கல்விக்குழுவுக்குப் பரிந்துரை செய்தல்

**பகுதி எண்.பா.தி.கு. 12/25/04**

தமிழாய்வுத்துறையில் 2025-2026 கல்வியாண்டு முதல் இளங்கலை தமிழ் கற்கும் மாணவியருக்கு வழங்கப்படும் முதல் பருவத்திற்கான பகுதி 1 தமிழ் பாட வரையறையில் பாடத் தலைப்பு, பாடக் குறியீடு மற்றும் பாடத்திட்ட மாற்றத்தை ஆலோசித்து அங்கீகாரமளித்துத் திருச்சிராப்பள்ளி காவேரி மகளிர் கல்லூரி (தன்னாட்சி) கல்விக்குழுவுக்குப் பரிந்துரை செய்தல்

**பகுதி எண்.பா.தி.கு.12/25/05**

பாடத்திட்டம் உருவாக்கிய குழுவினரைப் பாராட்டுதல்

# காவேரி மகளிர் கல்லூரி (தன்னாட்சி)

(தேசியத் தர நிர்ணயக் குழுவின் நான்காம் சுற்றில் A+ தகுதி பெற்றது)

**அண்ணாமலை நகர், திருச்சிராப்பள்ளி – 620018.**

**தமிழாய்வுத்துறை**

**பாடத்திட்டக் குழுக் கூட்டம் - நிகழ்ச்சி நிரல்**

**தமிழாய்வுத்துறையின் பன்னிரெண்டாவது பாடத்திட்டக் குழுக் கூட்டத்தின் நிகழ்ச்சி நிரல் :**

**நாள் : 03.04.2025**

**நேரம் : முற்பகல் 11 மணி**

**இடம் : E8 அறை**

## பாடத்திட்டக் குழுக் கூட்டத்தில் பங்கேற்ற உறுப்பினர்கள்

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| 1.முனைவர் ச.இராமலட்சுமி | **தலைவர்** பேராசிரியர் & துறைத்தலைவர் |
| 2. முனைவர் அ.இரா.கோமதி | உறுப்பினர் |
| 3. முனைவர் அ.யசோதா | உறுப்பினர் |
| 4. முனைவர் ந.சுபா | உறுப்பினர் |
| 5. முனைவர் மு.ஜெயலெட்சுமி | உறுப்பினர் |
| 6. முனைவர் தி.மணிமொழி | உறுப்பினர் |
| 7. முனைவர் பா.கவிதா | உறுப்பினர் |
| 8. முனைவர் மே.க.வசந்தி | உறுப்பினர் |
| 9. முனைவர் இரா.வனிதா | உறுப்பினர் |
| 10. முனைவர் வி.சத்யவதி | உறுப்பினர் |
| 11. முனைவக.ராதிகா | உறுப்பினர் |
| 12. முனைவர் மு.அனு | உறுப்பினர் |
| 13. முனைவர் ப.சசிரேகா | உறுப்பினர் |
| 14. முனைவர் மா.ஆசியாதாரா | உறுப்பினர் |
| 15. முனைவர் ச.தீபா | உறுப்பினர் |
| 16. முனைவர் க.அகல்யா | உறுப்பினர் |
| 17. முனைவர் இர.கீர்த்தனா | உறுப்பினர் |
| 18. முனைவர் செ.புனிதா | உறுப்பினர் |
| 19. திருமதி பொ.அபிராமி | உறுப்பினர் |

**பாடத்திட்டக் குழுக்கூட்டத்திலிருந்து விலக்கு அளிக்கப்பட்டவர்:**

முனைவர் வி.கவிதா, உறுப்பினர், இணைப் பேராசிரியர், தமிழாய்வுத்துறை, காவேரி மகளிர் கல்லூரி (தன்னாட்சி), திருச்சி – 18

**15.10.2024 அன்று நடைபெற்ற பாடத்திட்டக்குழுக் கூட்டத்தில் நிறைவேற்றப்பட்ட தீர்மானங்கள் :**

பதினொன்றாவது பாடத்திட்டக்குழுக் கூட்டம் 15.10.2024 அன்று பகல் 10.30 மணியளவில் நடைபெற்றது. பாடத்திட்டக்குழுத் தலைவர் அறிக்கையினை வாசித்தார். பின்வரும் தீர்மானங்கள் நிறைவேற்றப்பட்டன :

தமிழாய்வுத்துறையில் 2023-2024 கல்வியாண்டு முதல் வழங்கப்படும் இளங்கலைத் தமிழிலக்கியத்திற்கான ஐந்து மற்றும் ஆறாம் பருவங்களுக்கான பாட வரையறையில் மணிநேரம், கிரெடிட் மற்றும் பாடக்குறியீட்டு எண் மாற்றங்களை ஆலோசித்து அங்கீகாரமளித்துத் திருச்சிராப்பள்ளி காவேரி மகளிர் கல்லூரி (தன்னாட்சி) கல்விக்குழுவுக்குப் பரிந்துரை செய்யப்பட்டது.

- தமிழாய்வுத்துறையில் 2023-2024 கல்வியாண்டு முதல் வழங்கப்படும் இளங்கலைத் தமிழிலக்கியத்திற்கான ஆறாம் பருவத்திற்கான பாடத்திட்ட மாற்றங்களை ஆலோசித்து அங்கீகாரமளித்துத் திருச்சிராப்பள்ளி காவேரி மகளிர் கல்லூரி (தன்னாட்சி) கல்விக்குழுவுக்குப் பரிந்துரை செய்யப்பட்டது

- தமிழாய்வுத்துறையில் 2023-2024 கல்வியாண்டு முதல் வழங்கப்படும் முதுகலைத் தமிழிலக்கியம் இரண்டாம் பருவத்திற்கான ஆராய்ச்சி நெறிமுறைகள் (22PTA2DSE2A) தாளை மூன்றாம் பருவத்தில் வைக்க முந்தைய கல்விக் குழுவில் கூறப்பட்டது. அம்மாற்றத்தினை 2025-2026 கல்வியாண்டு முதல் செயல்படுத்த ஆலோசித்து அங்கீகாரமளித்துத் திருச்சிராப்பள்ளி காவேரி மகளிர் கல்லூரி (தன்னாட்சி) கல்விக்குழுவுக்குப் பரிந்துரை செய்யப்பட்டது

**03.04.2025 அன்று நடைபெற்ற பன்னிரெண்டாவது பாடத்திட்டக் குழு நடவடிக்கைகள்:**

**பகுதி எண்.பா.தி.கு.12/25/01**

**தமிழாய்வுத்துறையில் 2024-2025 கல்வியாண்டு முதல் வழங்கப்படும் இளங்கலைத் தமிழிலக்கியம் மூன்றாம் பருவத்தில் செய்யப்பட்டுள்ள மாற்றங்கள் :**

திறன் மேம்பாட்டுக் கட்டாயப் பாடம் IV - Health and Wellness (24UGHW) என்ற தாள் புதிதாகச் சேர்க்கப்பட்டுள்ளது. கிரெடிட் புள்ளிகள் – 1, மதிப்பெண் - 100, வகுப்பு நேரம் - 2 மணி நேரம் பணிப் பங்கீட்டில் இல்லை.

Generic Elective Course- I தாளுக்குரிய பாடமாக Introduction to NCC@ (பாடக்குறியீடு : 24UNC3GEC1) வைக்கப்படுகிறது.

மூன்றாவது பருவ கிரெடிட் புள்ளிகள் 23 எனவும் மொத்த மதிப்பெண்கள் 800 எனவும் மாற்றம் பெற்றுள்ளது.

**தமிழாய்வுத்துறையில் 2024-2025 கல்வியாண்டு முதல் வழங்கப்படும் இளங்கலைத் தமிழிலக்கியம் நான்காம் பருவத்தில் செய்யப்பட்டுள்ள மாற்றங்கள் :**

Generic Elective Course- II தாளுக்குரிய பாடமாக Specialization in Army@ (பாடக் குறியீடு :24UNC4GEC2) வைக்கப்பட்டுள்ளது.

நான்காவது பருவக் கிரெடிட் புள்ளிகள் 23 எனவும் மொத்த மதிப்பெண்கள் 700 எனவும் மாற்றம் பெற்றுள்ளது.

**தமிழாய்வுத்துறையில் 2024-2025 கல்வியாண்டு முதல் வழங்கப்படும் இளங்கலைத் தமிழிலக்கியம் ஐந்தாம் பருவத்தில் செய்யப்பட்டுள்ள மாற்றங்கள் :**

நான்காம் பருவம் முடிந்த பிறகு 30 நாட்கள் Internship நடைபெறும். ஐந்தாம் பருவத்தில் அதற்கான மதிப்பெண்கள் சேர்க்கப்படுகின்றன

ஐந்தாம் பருவத்தில் Ability Enhancement Compulsory Course-IV என்பது Ability Enhancement Compulsory Course-V என மாற்றம் பெற்றுள்ளது.

ஐந்தாவது பருவக் கிரெடிட் புள்ளிகள் 29 எனவும் மொத்த மதிப்பெண்கள் 800 எனவும் மாற்றம் பெற்றுள்ளது.

**தமிழாய்வுத்துறையில் 2024-2025 கல்வியாண்டு முதல் வழங்கப்படும் இளங்கலைத் தமிழிலக்கியம் ஆறாம் பருவத்தில் செய்யப்பட்டுள்ள மாற்றங்கள் :**

ஆறாம் பருவத்தில் முதன்மைப்பாடம் XIII மற்றும் முதன்மைப்பாடம் XIV தாள்களின் பாட மணிநேரம் 6 எனவும் கிரெடிட் புள்ளிகள் 5 எனவும் மாற்றம் பெற்றுள்ளன. பாடக்குறியீடுகள் முறையே 24UTA6CC13 மற்றும் 24UTA6CC14 என மாற்றம் பெற்றுள்ளன.

Project திட்டக்கட்டுரை தாளின் கிரெடிட் புள்ளிகள் 7 என மாற்றப்பட்டுப் பாடக் குறியீடு 24UTA6PW என மாற்றப்பட்டுள்ளது.

ஆறாவது பருவக் கிரெடிட் புள்ளிகள் 23 எனவும் மொத்த மதிப்பெண்கள் 600 எனவும் மாற்றம் பெற்றுள்ளது.

**பின்வரும் தீர்மானம் ஏற்கப்பட்டது :**

தமிழாய்வுத்துறையில் 2024-2025 கல்வியாண்டு முதல் வழங்கப்படும் இளங்கலைத் தமிழிலக்கியத்திற்கான மூன்றாம், நான்காம், ஐந்தாம் மற்றும் ஆறாம் பருவங்களுக்கான பாட வரையறையில் மணிநேரம், கிரெடிட் மற்றும் பாடக்குறியீட்டு எண் மாற்றங்களை ஆலோசித்து அங்கீகாரமளித்துத் திருச்சிராப்பள்ளி காவேரி மகளிர் கல்லூரி (தன்னாட்சி) கல்விக்குழுவுக்குப் பரிந்துரை செய்யப்படுகிறது.

**பகுதி எண்.பா.தி.கு.12/25/02**

தமிழாய்வுத்துறையில் 2024-2025 கல்வியாண்டு முதல் வழங்கப்படும் இளங்கலைத் தமிழிலக்கியத்திற்கான ஆறாம் பருவத்திற்கான பாடத்திட்டத்தில் செய்யப்பட்டுள்ள மாற்றங்கள் :

முதன்மைப்பாடம் XIII (24UTA6CC13) - சங்க இலக்கியம் – அகம் தாளில் அலகு 1, 2 முழுவதுமாக மாற்றம் செய்யப்பட்டுள்ளது.

முதன்மைப்பாடம் XIV (24UTA6CC14) - புறப்பொருள் வெண்பாமாலை தாளில் அலகு 1 முழுவதுமாக மாற்றம் செய்யப்பட்டுள்ளது. ஆறாம் அலகில் பாதிப் பகுதி மாற்றியமைக்கப்பட்டுள்ளது.

**பின்வரும் தீர்மானம் ஏற்கப்பட்டது :**

தமிழாய்வுத்துறையில் 2024-2025 கல்வியாண்டு முதல் வழங்கப்படும் இளங்கலைத் தமிழிலக்கியத்திற்கான ஆறாம் பருவத்திற்கான பாடத்திட்ட மாற்றங்களை ஆலோசித்து அங்கீகாரமளித்துத் திருச்சிராப்பள்ளி காவேரி மகளிர் கல்லூரி (தன்னாட்சி) கல்விக்குழுவுக்குப் பரிந்துரை செய்யப்படுகிறது.

**பகுதி எண்.பா.தி.கு.12/25/03**

2025-2026 கல்வியாண்டு முதல் பகுதி - 1 பொதுத்தமிழ் பாடமாக TANSCHE பாடத்திட்டத்தின்கீழ் வழங்கப்படும் 'தமிழ் இலக்கிய வரலாறு-I' பாடம் வைக்கப்படுகிறது. அதற்கான பாடத்திட்டம் ஏற்கப்படுகிறது. பாடக்குறியீட்டு எண் 25ULT1 என மாற்றம் செய்யப்படுகிறது.

**பின்வரும் தீர்மானம் ஏற்கப்பட்டது :**

தமிழாய்வுத்துறையில் 2025-2026 கல்வியாண்டு முதல் வழங்கப்படும் முதல் பருவத்திற்கான பகுதி 1 பொதுத்தமிழ் பாட வரையறையில் பாடத் தலைப்பு, பாடக் குறியீடு மற்றும் பாடத்திட்ட மாற்றத்தை ஆலோசித்து அங்கீகாரமளித்துத் திருச்சிராப்பள்ளி காவேரி மகளிர் கல்லூரி (தன்னாட்சி) கல்விக்குழுவுக்குப் பரிந்துரை செய்யப்படுகிறது.

**பகுதி எண்.பா.தி.கு.12/25/04**

பாடத்திட்டம் உருவாக்கிய குழுவினரைப் பாராட்டுதல்

பாடத்திட்டத்தைச் சிறப்பான முறையில் உருவாக்கிய பாடத்திட்டக் குழுவினருக்குப் பாராட்டு தெரிவிக்கப்பட்டது.

தமிழாய்வுத்துறை இணைப்பேராசிரியர் முனைவர் அ.இரா.கோமதி அவர்களின் நன்றியுடன் பன்னிரெண்டாவது பாடத்திட்டக் குழுக்கூட்டம் நிறைவு பெற்றது.

**தலைவர்**
**பாடத்திட்டக் குழுக் கூட்டம்**

**கலைப்புலத் தலைவர்**

**காவேரி மகளிர் கல்லூரி (தன்னாட்சி), திருச்சிராப்பள்ளி – 620018.**

**தமிழாய்வுத்துறை**

**03.04.2025 அன்று நடைபெற்ற பாடத்திட்டக் குழுக் கூட்டம்**

**1. 2024-2025ஆம் கல்வியாண்டில் முந்தைய பாடத்திட்டத்திலிருந்து செய்யப்பட்டுள்ள மாற்றங்கள்:**

பாடத்திட்டக் குழுத் தலைவர் முனைவர் ச.இராமலட்சுமி 2024-2025ஆம் கல்வியாண்டில் இளங்கலைத் தமிழ் வகுப்பின் பாடத்திட்டங்களில் செய்யப்பட்டுள்ள மாற்றங்களை முன்மொழிந்தார்.

| வகுப்பு | பாடம் | பாடக் குறியீடு | முதன்மை / விருப்பத் தேர்வு | மாற்றம் செய்யப்பட்டுள்ள சதவீதம் % |
|---|---|---|---|---|
| இளங்கலை | புறப்பொருள் வெண்பாமாலை | 24UTA6CC13 | முதன்மை | 30% |
| | சங்க இலக்கியம் – அகம் | 24UTA6CC14 | முதன்மை | 40% |

**தலைவர்**

**பாடத்திட்டக் குழுக் கூட்டம்**

## கலைப்புலத் தலைவர்

முனைவர் அ.இரா.கோமதி - உறுப்பினர் -
முனைவர் அ.யசோதா - உறுப்பினர் -
முனைவர் ந.சுபா - உறுப்பினர் -
முனைவர் மு.ஜெயலெட்சுமி - உறுப்பினர் -
முனைவர் தி.மணிமொழி - உறுப்பினர் –
முனைவர் பா.கவிதா - உறுப்பினர் -
முனைவர் மே.க.வசந்தி - உறுப்பினர் -
முனைவர் இரா.வனிதா - உறுப்பினர் -
முனைவர் வி.சத்யவதி - உறுப்பினர் -
முனைவர் க.ராதிகா - உறுப்பினர் -
முனைவர் மு.அனு - உறுப்பினர் -
முனைவர் ப.சசிரேகா - உறுப்பினர் -
முனைவர் மா.ஆசியாதாரா - உறுப்பினர் -
முனைவர் ச.தீபா - உறுப்பினர் -
முனைவர் க.அகல்யா - உறுப்பினர் -
முனைவர் இர.கீர்த்தனா - உறுப்பினர் –
முனைவர் செ.புனிதா - உறுப்பினர் -
திருமதி பொ.அபிராமி - உறுப்பினர் -

**CAUVERY COLLEGE FOR WOMEN (AUTONOMOUS), TRICHY - 18**
**PG & RESEARCH DEPARTMENT OF TAMIL**
**B.A. TAMIL – PROGRAMME STRUCTURE**
**LEARNING OUTCOME BASED CURRICULUM FRAMEWORK (CBCS – LOCF)**
**(For the Candidates admitted from the Academic year 2024-2025 and onwards)**

**I-VI SEMESTER**

| Semester | Part | Course | Course Title | Course Code | Inst. Hrs. / week | Credits | Exam | | | Total |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | Hrs. | Marks | | |
| | | | | | | | | Int | Ext | |
| I | I | Language Course-I (LC) | பொதுத்தமிழ் – I | 23ULT1 | 6 | 3 | 3 | 25 | 75 | 100 |
| | | | Hindi ka Samanya Gyan aur Nibandh | 23ULH1 | | | | | | |
| | | | Foundation Course Paper – I – French I | 23ULF1 | | | | | | |
| | | | Poetry Grammar and History of Sanskrit Literature | 23ULS1 | | | | | | |
| | II | English Language Course - I (ELC) | General English -I | 23UE1 | 6 | 3 | 3 | 25 | 75 | 100 |
| | III | Core Course – I (CC) | இக்கால இலக்கியம் | 23UTA1CC1 | 6 | 5 | 3 | 25 | 75 | 100 |
| | | Core Course- II (CC) | தமிழக வரலாறும் பண்பாடும் | 23UTA1CC2 | 6 | 5 | 3 | 25 | 75 | 100 |
| | | First Allied Course- I (AC) | தமிழ் மரபு மருத்துவம் | 23UTA1AC1 | 4 | 3 | 3 | 25 | 75 | 100 |
| | IV | Ability Enhancement Compulsory Course-I (AECC) | Value Education | 23UGVE | 2 | 2 | - | 100 | - | 100 |
| | Total | | | | **30** | **21** | - | - | - | **600** |

| Semester | PART | Course | Course Title | Course Code | Inst. Hrs. / | Credits | Exam | | | Total |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Int MARKS | Ext MARKS | |
| II | I | Language Course-II(LC) | பொதுத்தமிழ் -II | 23ULT2 | 6 | 3 | 3 | 25 | 75 | 100 |
| | | | Hindi Literature & Grammar -II | 22ULH2 | | | | | | |
| | | | Basic French- II | 22ULF2 | | | | | | |
| | | | Prose, Grammar and History of Sanskrit literature | 23ULS2 | | | | | | |
| | II | English Language Course-II(ELC) | General English -II | 23UE2 | 6 | 3 | 3 | 25 | 75 | 100 |
| | III | Core Course – III(CC) | நன்னூல் – எழுத்ததிகாரம் (காண்டிகையுரை) | 23UTA2CC3 | 6 | 5 | 3 | 25 | 75 | 100 |
| | | Core Course-IV(CC) | இலக்கியத் திறனாய்வு | 23UTA2CC4 | 5 | 5 | 3 | 25 | 75 | 100 |
| | | First Allied Course – II (AC) | தமிழர் நுண்கலைகள் | 23UTA2AC2 | 5 | 3 | 3 | 25 | 75 | 100 |
| | IV | Ability Enhancement Compulsory Course-II (AECC) | Environmental Studies | 22UGEVS | 2 | 2 | - | 100 | - | 100 |
| | TOTAL | | | | 30 | 21 | - | - | - | 600 |

| Semester | Part | Course | Course Title | Course Code | Inst. Hrs. / week | Credits | Exam | | | Total |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | Hrs. | Marks | | |
| | | | | | | | | Int | Ext | |
| III | I | Language Course-III (LC) | பொதுத்தமிழ்-III | 23ULT3 | 6 | 3 | 3 | 25 | 75 | 100 |
| | | | Hindi Literature & Grammar-III | 22ULH3 | | | | | | |
| | | | Intermediate French – I | 22ULF3 | | | | | | |
| | | | Drama Grammar And History Of Sanskrit Literature | 23ULS3 | | | | | | |
| | II | English Language Course- III(ELC) | Learning Grammar Through Literature -I | 23UE3 | 6 | 3 | 3 | 25 | 75 | 100 |
| | III | Core Course–V(CC) | நன்னூல் – சொல்லதிகாரம் (காண்டிகையுரை) | 23UTA3CC5 | 5 | 5 | 3 | 25 | 75 | 100 |
| | | Core Course - VI(CC) | சிற்றிலக்கியம் | 22UTA3CC6 | 5 | 5 | 3 | 25 | 75 | 100 |
| | | Second Allied Course-I (AC) | தமிழ் இலக்கிய வரலாறு | 23UTA3AC3 | 4 | 3 | 3 | 25 | 75 | 100 |
| | IV | Ability Enhancement Compulsory Course-III (AECC) | Innovation and Entrepreneurship | 22UGIE | 2 | 1 | - | 100 | - | 100 |
| | | Ability Enhancement Compulsory Course-IV (AECC) | Health and Wellness | 24UGHW | 2* | 1 | | 100 | - | 100 |
| | | Generic Elective Course- I (GEC) | Introduction to NCC@ | 24UNC3GEC1 | 2 | 2 | 3 | 25 | 75 | 100 |
| | | | அறிவியல் தமிழ் | 22UTA3GEC1 | | | | | | |
| | | | Basic Tamil-I | 22ULC3BT1 | | | | | | |
| | | | Special Tamil-I | 22ULC3ST1 | | | | | | |
| | | Total | | | 30 | 23 | - | - | - | 800 |

| Semester | Part | Course | Course Title | Course Code | Inst. Hrs. / | Credits | Exam | Exam | | Total |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | Hrs. | Int MAR | Ext MA | |
| IV | I | Language Course - IV (LC) | பொதுத்தமிழ்-iv | 23ULT4 | 6 | 3 | 3 | 25 | 75 | 100 |
| | | | Hindi Literature & Functional Hindi | 22ULH4 | | | | | | |
| | | | Intermediate French – II | 22ULF4 | | | | | | |
| | | | Alankara Didactic And Modern Literatures And Translation | 23ULS4 | | | | | | |
| | II | English Language Course – IV (ELC) | Learning Grammar Through Literature- II | 23UE4 | 6 | 3 | 3 | 25 | 75 | 100 |
| | III | Core Course –VII(CC) | யாப்பருங்கலக்காரிகை | 23UTA4CC7 | 5 | 5 | 3 | 25 | 75 | 100 |
| | | Core Course –VIII(CC) | சமய இலக்கியம் | 22UTA4CC8 | 5 | 5 | 3 | 25 | 75 | 100 |
| | | Second Allied Course- II (AC) | கணினித் தமிழ் | 22UTA4AC4 | 4 | 3 | 3 | 25 | 75 | 100 |
| | IV | Generic Elective Course- II (GEC) | Specialization in Army@ | 24UNC4GEC2 | 2 | 2 | 3 | 25 | 75 | 100 |
| | | | இதழியல் | 22UTA4GEC2 | | | | | | |
| | | | Basic Tamil - II | 22ULC4BT2 | | | | | | |
| | | | Special Tamil - II | 22ULC4ST2 | | | | | | |
| | | Skill Enhancement Course – I (SEC) | ஆட்சித் தமிழ் | 22UTA4SEC1 | 2 | 2 | 3 | 25 | 75 | 100 |
| | | Total | | | **30** | **23** | | | | **700** |

**30 Days Internship During Semester Holidays**

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| V | III | Core Course – IX(CC) | நம்பியகப்பொருள் | 23UTA5CC9 | 6 | 5 | 3 | 25 | 75 | 100 |
| | | Core Course – X(CC) | பதினெண் கீழ்க்கணக்கு – அறம் | 22UTA5CC10 | 5 | 5 | 3 | 25 | 75 | 100 |
| | | Core Course - XI(CC) | காப்பிய இலக்கியம் | 22UTA5CC11 | 5 | 5 | 3 | 25 | 75 | 100 |
| | | Core Course – XII(CC) | மொழி வரலாறு | 22UTA5CC12 | 5 | 5 | 3 | 25 | 75 | 100 |
| | | Internship | Internship | 24UTA5INT | - | 2 | - | - | - | 100 |
| | | Discipline Specific Elective – I (DSE) | A.கோயிற்கலை | 23UTA5DSE1A | 5 | 3 | 3 | 25 | 75 | 100 |
| | | | B.ஊடகத் தமிழ் | 23UTA5DSE1B | | | | | | |
| | | | C.பயண இலக்கியம் | 23UTA5DSE1C | | | | | | |
| | IV | Ability Enhancement Compulsory Course-V (AECC) | UGC Jeevan Kaushal -Professional Skills | 22UGPS | 2 | 2 | - | 100 | - | 100 |
| | | Skill Enhancement Course – II (SEC) | பயன்பாட்டுத் தமிழ் | 22UTA5SEC2 | 2 | 2 | 3 | 25 | 75 | 100 |
| | Total | | | | 30 | 29 | - | - | - | 800 |

| Semester | Part | Course | Course Title | Course Code | Inst. Hrs. / week | Credits | Exam | | | Total |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | Hrs. | Marks | | |
| | | | | | | | | Int | Ext | |
| VI | III | Core Course – XIII(CC) | புறப்பொருள் வெண்பாமா | 24UTA6CC13 | 6 | 5 | 3 | 25 | 75 | 100 |
| | | Core Course – XIV(CC) | சங்க இலக்கியம் – அகம் | 24UTA6CC14 | 6 | 5 | 3 | 25 | 75 | 100 |
| | | Core Course – XV(CC) | சங்கஇலக்கியம் – புறம் | 23UTA6CC15 | 5 | 4 | 3 | 25 | 75 | 100 |
| | | Discipline Specific Elective – II (DSE) | A.பணித்தேர்வுத் தமிழ் | 23UTA6DSE2A | 5 | 3 | 3 | 25 | 75 | 100 |
| | | | B. தன் வரலாற்று இலக்கியம் – உ.வே.சா. | 23UTA6DSE2B | | | | | | |
| | | | C. தொல்லியல் | 23UTA6DSE2C | | | | | | |
| | | Project | Project Work | 24UTA6PW | 7 | 4 | - | - | 100 | 100 |
| | IV | Ability Enhancement Compulsory Course-VI (AECC) | Gender Studies | 22UGGS | 1 | 1 | - | 100 | - | 100 |
| | V | Extension activity | Extension activity | 22UGEA | - | 1 | - | - | - | - |
| | **TOTAL** | | | | **30** | **23** | - | - | - | **600** |
| | **Grand total** | | | | **180** | **140** | | | | **4100** |

# B.A .Tamil

LEARNING OUTCOME BASED CURRICULUM FRAMEWORK (CBCS - LOCF)

(For the Candidates admitted from the Academic year 2024-2025 and onwards)

## Curriculum Structure

### Courses & Credits for UG Programmes (Arts)

| Part | Course | No of Courses | Hrs/ Course | Credits | Total |
|---|---|---|---|---|---|
| I | Tamil/ Other Language | 4 | 6 | 4*3=12 | 12 |
| II | English | 4 | 6 | 4*3=12 | 12 |
| III | Core | 15 | 5/6 | 14*5=70<br>1*4=4 | 98 |
| | Project Work | 1 | 7 | 4 | |
| | Internship | 1 | - | 2 | |
| | First Allied | 2 | 3/4 | 2*3=6 | |
| | Second Allied | 2 | 3/4 | 2*3=6 | |
| | DSE | 2 | 5 | 2*3=6 | |
| IV | GEC | 2 | 2 | 2*2=4 | 17 |
| | SEC | 2 | 2 | 2*2=4 | |
| | AECC-I Universal Human Values | 1 | 2 | 2 | |
| | AECC-II-Environmental Studies | 1 | 2 | 2 | |
| | AECC-III-Innovation and Entrepreneurship | 1 | 2 | 1 | |
| | AECC-IV-Health and Wellness | 1 | - | 1 | |
| | AECC-V-Professional Skills | 1 | 2 | 2 | |
| | AECC-V Gender Studies | 1 | 1 | 1 | |
| V | Extension Activities | -- | - | 1 | 01 |
| | | **41** | | 140 | **140** |

| Semester : VI | Internal Mark: 25 | External Mark: 75 | | |
|---|---|---|---|---|
| **COURSE CODE** | **COURSE TITLE** | **CATEGORY** | **Hrs/Week** | **CREDITS** |
| **24UTA6CC13** | புறப்பொருள் வெண்பாமலை | **CC** | **6** | **5** |

**நோக்கம்**

- ❖ தமிழரின் புறப்பொருள் இலக்கணம் பற்றி கற்பித்தல்
- ❖ தமிழரது போர்முறைகள் இலக்கணப்படுத்தப்பட்டுள்ளதை உணரச்செய்தல்
- ❖ தமிழ் மொழி புறம்சார்ந்த வாழ்க்கைக்கும் இலக்கணம் வகுத்துள்ளதை அறியச்செய்தல்

## COURSE OUTCOMES

இப்பாடத்தினைப் பயில்வதால் மாணவியர் பெறும் திறன்கள்

| CO No. | CO Statement | Cognitive Level |
|---|---|---|
| CO1 | தமிழரின் புறவாழ்வு நெறிகளை அறிவதன்வழி, சமூகச் சூழலைப் புரிந்துகொள்ளல் | K1 |
| CO2 | புறநூல்களில் உள்ள புறத்திணைக் கூறுகளை விளக்குதல் | K2 |
| CO3 | தமிழ்ப் புறமரபினை ஆராய்ந்தறிதலின் வழி புறக்கோட்பாட்டினைக் கண்டறிந்து பயன்படுத்துதல் | K3 |
| CO4 | புறத்திணைப் படலங்களை அறிவியல் நோக்கில் பகுத்தறிதல் | K4 |
| CO5 | போட்டித் தேர்வுகளுக்கேற்ப புறஇலக்கணக் கூறுகளைப் பகுத்தாராய்தல் | K5 |

**Mapping of CO with Po and PSO**

| | PO1 | PO2 | PO3 | PO4 | PO5 | PSO1 | PSO2 | PSO3 | PSO4 | PSO5 |
|---|---|---|---|---|---|---|---|---|---|---|
| **CO1** | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| **CO2** | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| **CO3** | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| **CO4** | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| CO5 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |

| பாடத்திட்டம் - **SYLLABUS** | | | | |
|---|---|---|---|---|
| **UNIT** | **CONTENT** | **HOURS** | **COs** | **COGNITIVE LEVEL** |
| I | கடவுள் வாழ்த்து, சிறப்புப்பாயிரம், வெட்சிப்படலம், கரந்தைப்படலம் | 20 | CO1 CO2 CO3 CO4 CO5 | K1 K2 K3 K4 |
| II | வஞ்சிப்படலம், காஞ்சிப்படலம், நொச்சிப்படலம் | 20 | CO1 CO2 CO3 CO4 CO5 | K1 K2 K3 K4 |
| III | உழிஞைப் படலம், தும்பைப் படலம், வாகைப்படலம் | 20 | CO1 CO2 CO3 CO4 CO5 | K1 K2 K3 K4 |
| IV | பாடாண்படலம் | 15 | CO1 CO2 CO3 CO4 CO5 | K1 K2 K3 K4 |
| V | பொதுவியல் | 15 | CO1 CO2 CO3 CO4 CO5 | K1 K2 K3 K4 |
| VI | **(சுய கற்றல்) இப்பகுதி பருவத்தேர்விற்கு உரியதல்ல** புறப்பொருள் வெண்பாமாலைச் சுட்டும் சமூகச் சூழலை ஆராய்ந்து அறிதல் | - | CO1 CO2 CO3 CO4 CO5 | K1 K2 K3 K4 |

**பாட நூல் :**

- பொ.வே.சோமசுந்தரனார் (உ.ஆ), (1975), புறப்பொருள் வெண்பாமாலை, கழக வெளியீடு, சென்னை – 18.

**பார்வை நூல்கள் :**

- புலியூர்க்கேசிகன், (2009), புறப்பொருள் வெண்பாமாலை, சாரதா பதிப்பகம், சென்னை - 14
- சோ.நா.கந்தசாமி, (1994), புறத்திணை வாழ்வியல், தமிழ்ப் பல்கலைக்கழகம்,
- சென்னை


**கற்பித்தல் முறைகள்**

கலந்தாய்வு, வினாடிவினா, திட்டக்கட்டுரை, கரும்பலகை, குழு விவாதம்

**Web Resources**

https://www.tamilvu.org/courses/degree/d021/d0213/html/d0213113.htm

**பாடத்திட்ட வடிவமைப்பாளர்**

முனைவர் செ.புனிதா

| Semester VI | Internal Mark: 25 | External Mark: 75 | | |
|---|---|---|---|---|
| COURSE CODE | COURSE TITLE | CATEGORY | Hrs/Week | CREDITS |
| 2UTA6CC14 | சங்க இலக்கியம் - அகம் | CC | 6 | 5 |

**நோக்கம்**

- தமிழ் மொழியின் தொன்மையை சங்க இலக்கியங்கள் வழி மாணவர்களை உணரச் செய்தல்
- .அக்காலச் சமூக நிலை, பண்பாடு, நாகரிகம் குறித்த அறிவினைப் பெறச் செய்தல்.
- சங்க இலக்கியங்களின் அமைப்பு முறை, உள்ளடக்கம் பற்றி அறியச் செய்தல்

## COURSE OUTCOMES

இப்பாடத்தினைப் பயில்வதால் மாணவியர் பெறும் திறன்கள்

| CO No. | CO Statement | Cognitive Level |
|---|---|---|
| CO1 | சங்க இலக்கியங்களின் வழி அக்கால மொழிச் சூழலையும் சமூகச் சூழலையும் கண்டறிதல் | K3 |
| CO2 | சங்க இலக்கியங்களின் சிறப்புகளைக் கண்டறிந்து அகப்புறக் கோட்பாடுகளை விளக்கி அறிதல் | K4 |
| CO3 | பழந்தமிழர் வரலாறு பண்பாடு ஆகியவற்றை அறிவியல் நோக்குடன் மதிப்பிடல் | K5 |
| CO4 | சங்க இலக்கியங்கள் உணர்த்தும் வாழ்வியல் விழுமியங்களை இன்றைய சூழலோடு ஒப்பிட்டு நோக்குதல் | K6 |
| CO5 | போட்டித் தேர்வுகளுக்கு ஏற்ப சங்க இலக்கிய நூல்களைக் கற்றறிதல் | K6 |

**Mapping withCO, PO & PSO :**

| | PO1 | PO2 | PO3 | PO4 | PO5 | PSO1 | PSO2 | PSO3 | PSO4 | PSO5 |
|---|---|---|---|---|---|---|---|---|---|---|
| CO1 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| CO2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| CO3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| CO4 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| CO5 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |

| பாடத்திட்டம் - **SYLLABUS** | | | | |
|---|---|---|---|---|
| **UNIT** | **CONTENT** | **HOURS** | **COs** | **COGNITIVE LEVEL** |
| I | நற்றிணை –(71 முதல் 80 வரை)<br>ஐங்குறுநூறு-வேட்கைப்பத்து மற்றும்<br>வேழப்பத்து | 20 | CO1<br>CO2<br>CO3<br>CO4<br>CO5 | K3<br>K4<br>K5<br>K6 |
| II | குறுந்தொகை -(11 முதல் 35 வரை) | 15 | CO1<br>CO2<br>CO3<br>CO4<br>CO5 | K3<br>K4<br>K5<br>K6 |
| III | கலித்தொகை - பாலைக்கலி முதல் 5 பாடல்கள்<br>குறிஞ்சிக்கலி முதல் 5 பாடல்கள் | 20 | CO1<br>CO2<br>CO3<br>CO4<br>CO5 | K3<br>K4<br>K5<br>K6 |
| IV | அகநானூறு -களிற்றியானைநிரை 41-50 வரை<br>பரிபாடல் - திருமால் 4, செவ்வேள் 21 | 20 | CO1<br>CO2<br>CO3<br>CO4<br>CO5 | K3<br>K4<br>K5<br>K6 |
| V | பத்துப்பாட்டு-பட்டினப்பாலை | 15 | CO1<br>CO2<br>CO3<br>CO4<br>CO5 | K3<br>K4<br>K5<br>K6 |

| | | | | |
|---|---|---|---|---|
| VI | (சுய கற்றல்) இப்பகுதி பருவத்தேர்விற்கு உரியதல்ல பதிப்பு முயற்சிகள் | - | CO1<br>CO2<br>CO3<br>CO4<br>CO5 | K3<br>K4<br>K5<br>K6 |

**பார்வை நூல்கள்**


1. ஔவை சுதுரைசாமிப்பிள்ளை (உ.ஆ).2008 நற்றிணை கழக வெளியீடு, சென்னை.
2. இரா இராகவையங்கார் (உ.ஆ) .2016 குறுந்தொகை சாரதா பதிப்பகம், ஸ்ரீகிருஷ்ணாபுரம், ராயப்பேட்டை, சென்னை.
3. ஔவை சு துரைசாமிப்பிள்ளை (உ.ஆ).2008 ஐங்குறுநூறு கழக வெளியீடு, சென்னை.
4. இரா சரவணமுத்து (உ.ஆ) .2008 கலித்தொகை, சாரதா பதிப்பகம், ஸ்ரீகிருஷ்ணாபுரம், ராயப்பேட்டை, சென்னை
5. நமு. வேங்கடசாமி. நாட்டார் (உ (ஆ.2008 அகநானூறு, கழக வெளியீடு, சென்னை.
6. சாமிநாதையர் உ .வே. (உ(.ஆ., 2018, பத்துப்பாட்டு மூலமும் நச்சினார்க்கினியர் உரையும், டாக்டர் உ வே. சாமிநாதையர் நூல். நிலையம்
7. இராச மாணிக்கனார்.மா, 2018, பத்துப்பாட்டு ஆராய்ச்சி, சாகித்ய அகாடமி வெளியீடு,சென்னை


**கற்பித்தல் முறைகள்**

கலந்தாய்வு, வினாடி வினா, திட்டக்கட்டுரை, கரும்பலகை, குழுவிவாதம், **PPT,GOOGLE MEET,GOOGLE CLASS ROOM**

**Web Resources**

1. https://www.tamilvu.org/ta/courses-degree-d011-d0112-html-d01124l1-18735
2. https://www.tamilvu.org/library/nationalized/scholars/pdf/others/tcl/ainkurunuru.pdf
3. https://www.chennailibrary.com/ettuthogai/kalithogai.html

**பாடப்பகுதி வடிவமைப்பாளர் :** முனைவர் தி.மணிமொழி

# பொதுத்தமிழ்

பி.ஏ., பிஎஸ்ஸி, பி.காம், பிபிஏ

(முதலாம் ஆண்டிற்கான முதற்பருவப் பாடத்திட்டம்

2025 – 2026

தமிழ்நாடு மாநில உயர்கல்வி மன்றம்

600 005

## பகுதி - 1- பொதுத்தமிழ்

## முதலாமாண்டு- முதற் பருவப் பாடத்திட்டம்

**2025 – 2026**

| Semester I | Internal Mark: 25 | External Mark: 75 | | |
|---|---|---|---|---|
| COURSE CODE | COURSE TITLE | CATEGORY | Hrs/Week | CREDITS |
| 25ULT1 | தமிழ் இலக்கிய வரலாறு - I | LC | 6 | 3 |

**நோக்கம்**

- முதலாமாண்டுப் பட்ட வகுப்பு மாணவர்களுக்குத் தமிழ் மொழி இலக்கியங்களை அறிமுகம் செய்தல்.
- தமிழ் இலக்கியப் போக்குகளையும், இலக்கணங்களையும் மாணவர் அறியுமாறு படைப்பாற்றலைத் தூண்டுதல்.
- தமிழ் இலக்கியம் சார்ந்த போட்டித் தேர்வுகளுக்கு ஏற்ப கற்பித்தல் நடைமுறைகளை மேற்கொள்ளுதல்.

**COURSE OUTCOMES**

இப்பாடத்தினைப் பயில்வதால் மாணவியர் பெறும் திறன்கள்

| CO No. | CO Statement | Cognitive Level |
|---|---|---|
| CO1 | சங்க இலக்கியத்தில் காணப்பெறும் வாழ்வியல் சிந்தனைகளை அறிந்து கொள்வர். | K3, K6 |
| CO2 | அற இலக்கியம் மற்றும் தமிழ் காப்பியங்களின் வழி வாழ்வியல் சிந்தனையைப் பெறுவர். | K1, K2 |
| CO3 | பக்தி இலக்கியங்களைக் கற்பதன் மூலம் பக்தி நெறியினையும், பகுத்தறிவு இலக்கியங்களைக் கற்பதன் வழி நல்லிணக்கத்தையும் தெரிந்து பின்பற்றுவர். | K3, K4 |
| CO4 | மொழியறிவோடு சிந்தனைத்திறனைப் பெறுவர்.. | K4 |
| CO5 | மொழிப்பயிற்சிக்குத் தேவையான இலக்கணங்களைக் கற்பர். | K4, K6 |

**Mapping of CO with Po and PSO**

| | PO1 | PO2 | PO3 | PO4 | PO5 | PSO1 | PSO2 | PSO3 | PSO4 | PSO5 |
|---|---|---|---|---|---|---|---|---|---|---|
| **CO1** | 3 | 2 | 3 | 3 | 3 | 2 | 2 | 2 | 2 | 3 |
| **CO2** | 3 | 3 | 2 | 2 | 2 | 3 | 2 | 3 | 2 | 2 |
| **CO3** | 3 | 2 | 3 | 3 | 2 | 2 | 2 | 3 | 3 | 3 |
| **CO4** | 3 | 3 | 3 | 2 | 2 | 2 | 3 | 2 | 2 | 3 |
| **CO5** | 3 | 3 | 2 | 2 | 2 | 3 | 3 | 2 | 2 | 3 |

| பாடத்திட்டம் - **SYLLABUS** | | | | |
|---|---|---|---|---|
| **UNIT** | **CONTENT** | **HOURS** | **COs** | **COGNITIVE LEVEL** |
| I | **தமிழ் இலக்கிய, இலக்கணம்:**<br>**1.இலக்கணம்**<br>அ.தொல்காப்பியம், இறையனார் களவியல் உரை, நம்பியகப்பொருள், புறப்பொருள் வெண்பாமாலை, நன்னூல், தண்டியலங்காரம், யாப்பருங்கலக்காரிகை – நூல்கள்<br>**ஆ.மொழிப்பயிற்சி – ஒற்றுப்பிழை தவிர்த்தல்,**<br>வல்லினம் மிகும் இடங்கள், வல்லினம் மிகா இடங்கள், ஈரொற்று வரும் இடங்கள், ஒரு **ஓர்** வரும் இடங்கள், அது, அஃது வரும் இடங்கள், தான், தாம் வரும் இடங்கள் பயிற்சி: வல்லினம் மிகும் இடங்கள், மிகா இடங்கள், தவறாக வரும்வகையில் ஒரு பத்தி கொடுத்து ஒற்றுப் பிழை திருத்தி எழுதச் செய்தல்.<br>2. **சங்க இலக்கியம்** – எட்டுத்தொகை, பத்துப்பாட்டு, 3.**அற இலக்கியம்** – பதினெண் கீழ்கணக்கு நூல்கள்,<br>4. **காப்பிய இலக்கியம்** – ஐம்பெருங்காப்பியங்கள், ஐஞ்சிறு காப்பியங்கள், சமயக் காப்பியங்கள், | 18 | CO1<br>CO2<br>CO3<br>CO4<br>CO5 | K1<br>K2<br>K3<br>K4<br>K5<br>K6 |

| | | | | |
|---|---|---|---|---|
| | **5.பக்தி இலக்கியமும் பகுத்தறிவு இலக்கியமும்** பன்னிருதிருமுறைகள், நாலாயிர திவ்வியப் பிரபந்தம் – சித்தர் இலக்கியங்கள், புலவர் குழந்தையின் இராவண காவியம் | | | |
| II | **சங்க இலக்கியம்** –<br>**எட்டுத்தொகை** –<br>1.நற்றிணை முதல் பாடல் – நின்ற சொல்லர்<br>2. குறுந்தொகை 3ஆம் பாடல் – நிலத்தினும் பெரிதே<br>3. ஐங்குறுநூறு – நெல் பல பொலிக! பொன் பெரிது சிறக்க _ வேட்கைப் பத்து(முதல்பாடல்)<br>4. கலித்தொகை –- சுடர்த் தொடீஇக் கேளாய்(குறிஞ்சிக் கலி – 51)<br>5. புறநானூறு – நாடா கொன்றோ , தெண்கடல் வளாகம் பொதுமையின்றி,– (187 ,189)<br>**பத்துப்பாட்டு** : 1. முல்லைப்பாட்டு (முழுவதும்) | 18 | | |
| III | **அற இலக்கியம் :**<br>1.திருக்குறள் –அறன் வலியுறுத்தல் அதிகாரம்<br>2.நாலடியார் – பாடல் : 131(குஞ்சியழகும்)<br>3.நான்மணிக்கடிகை –<br>நிலத்துக்குஅணியென்ப, 4.பழமொழி நானூறு –தம் நடை நோக்கார்,<br>5. இனியவை நாற்பது – 37 இளமையை மூப்பு என்று | 18 | CO1<br>CO2<br>CO3<br>CO4<br>CO5 | K1<br>K2<br>K3<br>K4<br>K5<br>K6 |
| IV | **காப்பிய இலக்கியம் :**<br>1.சிலப்பதிகாரம் – வழக்குரை காதை<br>2. மணிமேகலை – பாத்திரம் பெற்ற காதை<br>3. பெரிய புராணம் – பூசலார் நாயனார் புராணம்,<br>4. கம்பராமாயணம் – குகப்படலம் | 18 | CO1<br>CO2<br>CO3<br>CO4<br>CO5 | K1<br>K2<br>K3<br>K4<br>K5<br>K6 |

| | | | | |
|---|---|---|---|---|
| | 5. சீறாப்புராணம் – மானுக்குப் பிணைநின்ற படலம்<br>6. இயேசு காவியம் – ஊதாரிப்பிள்ளை | | | |
| V | **பக்தி இலக்கியமும் பகுத்தறிவு இலக்கியமும் :**<br>**பக்தி இலக்கியம்**<br>1.திருநாவுக்கரசர் தேவாரம் – நாமார்க்கும் குடியல்லோம் எனத் தொடங்கும் பாடல் மட்டும் .<br>2. மாணிக்க வாசகர் திருவாசகம் – நமச்சிவாய வாழ்க நாதன்தாள் வாழ்க முதல் சிரம்குவிவார் ஓங்குவிக்கும் சீரோன் கழல் வெல்க வரை<br>3.பொய்கையாழ்வார் – வையந் தகளியா வார்கடலே<br>**4.** பூதத்தாழ்வார் – அன்பே தகளியா<br>**5.** பேயாழ்வார் – திருக்கண்டேன் பொன்மேனி கண்டேன்<br>**6.** ஆண்டாள் – திருப்பாவை -மார்கழித் திங்கள் (முதல் பாடல்)<br>**பகுத்தறிவு இலக்கியம்**<br>திருமூலர் –திருமந்திரம் (270, 271, 274, 275, 285), பட்டினத்தார்- திருவிடை மருதூர் (காடே திரிந்து –எனத் தொடங்கும் பாடல் பா.எண் : 279, 280)<br>கடுவெளிச் சித்தர் – பாபஞ்செய் யாதிரு மனமே (பாடல் முழுவதும்)<br>இராவண காவியம் – தாய்மொழிப் படலம் – 18. ஏடுகை யில்லாரில்லை முதல் -22 செந்தமிழ் வளர்த்தார். வரை | 18 | CO1<br>CO2<br>CO3<br>CO4<br>CO5 | K1<br>K2<br>K3<br>K4<br>K5<br>K6 |
| VI | (சுய கற்றல்) இப்பகுதி பருவத்தேர்விற்கு உரியதல்ல<br>தமிழ் இலக்கியங்களில் காலந்தோறும் காணலாகும் மாற்றத்தை அறிதல். | - | CO1<br>CO2<br>CO3<br>CO4<br>CO5 | K1<br>K2<br>K3<br>K4<br>K5<br>K6 |

**பார்வை நூல்கள்**

- மு. வரதராசன், தமிழ் இலக்கிய வரலாறு, சாகித்ய அகாதெமி, புதுடெல்லி
- மது. ச. விமலானந்தம், தமிழ் இலக்கிய வரலாறு. மீனாட்சி புத்தக நிலையம், மதுரை.
- தமிழண்ணல், புதிய நோக்கில் தமிழ் இலக்கிய வரலாறு. மீனாட்சி புத்தக நிலையம், மதுரை.
- தமிழ் இலக்கிய வரலாறு – முனைவர் சிற்பி பாலசுப்ரமணியம்,முனைவர் சொ.சேதுபதி
- புதிய தமிழ் இலக்கிய வரலாறு – முனைவர் சிற்பி பாலசுப்ரமணியம்,நீல பத்மநாபன்
- தமிழ் இலக்கிய வரலாறு – டாக்டர் அ.கா.பெருமாள்
- தமிழ் இலக்கிய வரலாறு – முனைவர் ப.ச.ஏசுதாசன்
- தமிழ் இலக்கிய வரலாறு - ஸ்ரீ குமார்
- வகைமை நோக்கில் தமிழ் இலக்கிய வரலாறு – பாக்கியமேரி
- தமிழ் பயிற்றும் முறை, பேராசிரியர் ந. சுப்புரெட்டியார் – மணிவாசகர் பதிப்பகம், சிதம்பரம்

**கற்பித்தல் முறைகள்**

- கலந்தாய்வு, வினாடி வினா, திட்டக்கட்டுரை, கரும்பலகை, குழுவிவாதம், **PPT,GOOGLE MEET,GOOGLE CLASS ROOM**

**Related Online Contents [MOOC, SWAYAM, NPTEL, Websites etc.]**

**Web Sources**

- https://www.chennailibrary.com/
- https://www.sirukathaigal.com
- https://www.tamilvirtualuniversity.org
- https://www.noolulagam.com
- https://www.katuraitamilblogspot.com

# ANNEXURE C

CAUVERY COLLEGE FOR WOMEN (AUTONOMOUS)

Nationally Accredited (IV Cycle) 'A' Grade by NAAC

Annamalai Nagar, Trichy – 620 018.

PG DEPARTMENT OF ENGLISH

TWELFTH BOARD OF STUDIES MEET

# 2024-2025 AND ONWARDS

CAUVERY COLLEGE FOR WOMEN (AUTONOMOUS)

Nationally Accredited (IV Cycle) with A+ Grade by NAAC

Annamalai Nagar, Trichy – 620 018.

PG DEPARTMENT OF ENGLISH

**THE AGENDA FOR THE TWELFTH MEETING OF THE BOARD OF STUDIES**

**DATE** : 03.04.2025

**VENUE** : B - 14

**TIME** : 9.30 AM

## The Agenda for the Meet is as follows:

**ITEM NO: BOS/12/25/01**

To consider and to approve the new courses AECC – IV - **Health and Wellness** and GEC-I - **Introduction to NCC** in Semester III of BA English for 2024 - 2025 batch and onwards and recommend to the Academic Council, Cauvery College for Women (Autonomous), Trichy.

**ITEM NO: BOS/12/25/02**

To consider and to approve the new course of GEC-II - **Specialization in Army** in Semester IV of BA English for 2024 - 2025 batch and onwards and recommend to the Academic Council, Cauvery College for Women (Autonomous), Trichy.

**ITEM NO: BOS/12/25/03**

To consider and approve the shifting and changes in the duration of Internship, Evaluation of Internship in in Semester V of BA English for 2024 – 2025 batch and onwards and recommend to the Academic Council, Cauvery College for Women (Autonomous), Trichy

**ITEM NO: BOS/12/25/04**

To ratify the Hours and Credits of CC – XIII and CC - XIV and the Hours and Course Code of Project Work of Semester V of BA English for 2024-2025 batch and onwards, and recommend to the Academic Council, Cauvery College for Women (Autonomous), Trichy

**ITEM NO: BOS/12/25/05**

To ratify the syllabus of CC – XIII – English Language Teaching and CC - XIV - Canadian Literature in Semester VI of BA English for 2023 - 2024 batch and onwards and recommend to the Academic Council, Cauvery College for Women (Autonomous), Trichy

**ITEM NO: BOS/12/25/06**

Any other matter with the permission of the chair.

CAUVERY COLLEGE FOR WOMEN (AUTONOMOUS)
Nationally Accredited (IV Cycle) with A+ Grade by NAAC
ISO 9001: 2015 Certified
Annamalai Nagar, Trichy-18.

Members Present for the Twelfth Board of Studies Meet

DATE: 03.04.2025
VENUE: B - 14
TIME: 9.30 AM

MEMBERS PRESENT FOR THE BOARD OF STUDIES MEET

| S. No | Name | Designation |
|---|---|---|
| 1 | Dr. P. Urmila | PG Chairperson and Professor |
| 2 | Dr. S.Jayashree Agarwal | UG Chairperson and Associate Professor |
| 3 | Dr. R. Uma Maheswari | Member |
| 4 | Dr. Rita Shanthakumar | Member |
| 5 | Dr. P. Helan Jona | Member |
| 6 | Dr. G.Gayathri | Member |
| 7 | Dr. Cecilia Merlin Wilton | Member |
| 8 | Ms. A. Violet Pangaja Bai | Member |
| 9 | Dr. J.Jenifer Nancy | Member |
| 10 | Ms. M.Irudhaya Pushpam | Member |
| 11 | Ms. Dianna Betty Garret | Member |
| 12 | Dr. S. Ramalakshmi | Member |
| 13 | Dr. R. Shanthi | Member |
| 14 | Ms. P. K. Durgadevi | Member |
| 15 | Ms. T. Haseena Banu | Member |
| 16 | Dr. V. Sudhandra Devi | Member |
| 17 | Ms. A. Edel Flora Mary | Member |
| 18 | Ms. N. Yoga | Member |
| 19 | Ms. L. Samyuktha | Member |
| 20 | Dr. S. Senthil kumari | Member |
| 21 | Dr. R. Vanitha | Member |
| 22 | Ms. Vanmathi. Siva | Member |

CAUVERY COLLEGE FOR WOMEN (AUTONOMOUS)
Nationally Accredited (IV Cycle) with A+ Grade by NAAC
Annamalai Nagar, Trichy – 620 018.
PG DEPARTMENT OF ENGLISH

## ACTION TAKEN REPORT OF THE ELEVENTH TENTH MEETING OF THE BOARD OF STUDIES HELD ON 17.10.2045

The Eleventh Board of Studies Meeting was held on 17.10.2024 at 9.30 AM. The Chairperson of the BOS read the Minutes of the Meeting and the following resolutions were confirmed.

- In Semester V of BA English for 2023 – 2024 Batch and Onwards for Core Course IX to be given as 5 Credits and in Discipline Specific Elective – I (DSE) with 3 Credits.

- In Semester VI of BA English for 2023 – 2024 Batch and Onwards in the new introduced Core Course XIV with 4 Credits, Core Course XV with 3 Credits, Discipline Specific Elective – II (DSE) with 3 Credits and Project Work with 4 Credits.

CAUVERY COLLEGE FOR WOMEN (AUTONOMOUS)
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Annamalai Nagar, Trichy – 620 018.
PG DEPARTMENT OF ENGLISH

**MINUTES OF TWELFTH BOARD OF STUDIES MEETING HELD (INTERNALLY) ON 03.04.2025**

The following Resolutions were passed by the Board of Studies Members.

**RESOLUTION NO.BOS/12/25/01**

Resolved to introduce the new courses AECC - IV and GEC - I in Semester III of BA English for 2024 - 2025 batch and onwards and recommend to the Academic Council, Cauvery College for Women (Autonomous), Trichy, with the following changes for

1. AECC - IV – Health and Wellness with 1 Credit is introduced with Course Code 24UGHW
2. GEC – I – Introduction to NCC is introduced with Course Code 24UNC3GEC1 as one of the Elective Course

Resolved to carry out the changes as given in ***Annexure A***

**RESOLUTION NO.BOS/12/25/02**

Resolved to approve the new course of GEC – II in Semester IV of BA English for 2024 - 2025 batch and onwards and recommend to the Academic Council, Cauvery College for Women (Autonomous), Trichy, with the following changes for

1. GEC - II – Specialization in Army is introduced with Course Code 24UNC4GEC2 as one of the Elective Course

Resolved to carry out the changes as given in ***Annexure B***

**RESOLUTION NO.BOS/12/25/03**

Resolved to approve the shifting and changes in the duration of Internship, Evaluation of Internship in Semester V of BA English for 2024 - 2025 batch and onwards and recommend to the Academic Council, Cauvery College for Women (Autonomous), Trichy, with the following changes for

1. The duration of the internship has been changed from 15 days to 30 days and it shifted from Semester III holidays to Semester IV holidays
2. Internship is Evaluated in Semester V with the Course Code 24UCS5INT and the Credits given is 2

Resolved to carry out the changes as given in ***Annexure C***

**RESOLUTION NO.BOS/12/25/04**

Resolved to ratify the Credits of CC – XIII and CC - XIV and the Hours and Course Code of Project Work of Semester VI of BA English for 2024 - 2025 batch and onwards, and recommend to the Academic Council, Cauvery College for Women (Autonomous), Trichy, with the following changes for

1. The Credits of CC – XIII – English Language Teaching is changed from 4 hours 4 credits to 6 hours and 5 credits with Course Code 24UEN6CC13
2. The Credits of CC – XIV – Canadian Literature is changed from 5 hours 4 credits to 6 hours and 5 credits with Course Code 24UEN6CC14
3. The hours for Project Work have been changed from 5 hours to 7 hours, with Course Code 24UEN6PW

Resolved to carry out the changes as given in ***Annexure D***

**RESOLUTION NO.BOS/12/25/05**

Resolved to ratify the syllabus of CC – XIII and CC – XIV in Semester VI of BA English for 2023 - 2024 batch and onwards and recommend to the Academic Council, Cauvery College for Women (Autonomous), Trichy, with the following changes in the Syllabus for

**Core Course XIII – English Language Teaching - 24UEN6CC13**

***Theory - Topics Removed***

**Unit – I**

Teaching English as a Second Language

**Unit – IV**

Teaching EFL

Types of Tests and their Purpose

**Unit – V**

Blended Learning

Reflective Skills

**Theory - Topics Included**

**Unit – I**

Teaching English as a Foreign Language (EFL)

English for Specific Purposes (ESP)

**Unit – III**

Task–Based Language Teaching (TBLT)

**Unit – IV**

Testing – Types of Tests – Characteristics of a Good Test

**Core Course XIV – Canadian Literature - 24UEN6CC14**

***Theory - Topics Removed***

**Unit – I**

Elements in Poetry, Prose, Drama, Fiction in Canadian Literature

**Unit – II**

Michael Ondaaatje – "To a Sad Daughter"

**Theory - Topics Included**

**Unit – I**

Elements in Canadian Literature (Nature and Landscape, Multiculturalism and Identity)

**Unit – II**

Margaret Atwood – "Morning in the Burned House"

**Unit – III**

Thomas King – "Borders"

Resolved to carry out the changes as given in ***Annexure E***

Dr. S.Jayashree Agarwal, Associate Professor and Chairperson of UG BOS and Dr.P.Urmila, Professor and Chairperson of PG BOS conducted the Board of Studies meet and expressed their gratitude for the valuable suggestions given by the internal BoS members during the BoS meeting for the period 2024 - 2025 and thanked all the members of BOS, Department of English, Cauvery College for Women (Autonomous) present for the Twelfth Board of Studies Meet.

Dr. P. URMILA
Professor & Head (PG)
PG Department of English
Cauvery College for Women (Autonomous)
Tiruchirappalli - 620 018

| | | |
|---|---|---|
| **Dr.P.Urmila**<br>PG Chairperson<br>Professor and PG Head<br>Department of English<br>Cauvery College for Women<br>(Autonomous)<br>Trichy – 620 018 | **Dr.S.Jayashree Agarwal**<br>UG Chairperson<br>Associate Professor and UG Head<br>Department of English<br>Cauvery College for Women<br>(Autonomous)<br>Trichy – 620 018 | **Dr. N.Savithri**<br>Dean of Arts<br>Cauvery College for<br>Women (Autonomous)<br>Trichy – 620 018 |

DEAN OF ARTS
CAUVERY COLLEGE FOR WOMEN
(AUTONOMOUS)
ANNAMALAI NAGAR
TIRUCHIRAPPALLI - 620 018
TAMILNADU

## Members of the Twelfth Board of Studies Meet

| | | |
|---|---|---|
| **Dr.P.Urmila** | Professor and PG Head<br>Department of English<br>Cauvery College for Women (Autonomous)<br>Trichy – 18 | |
| **Dr.S.Jayashree Agarwal** | Associate Professor and UG Head,<br>Department of English,<br>Cauvery College for Women (Autonomous)<br>Trichy-18 | |

| S. No | Name | Designation | Signature |
|---|---|---|---|
| 1 | Dr.R.Uma Maheswari | Member | |
| 2 | Dr.Rita Shanthakumar | Member | |
| 3 | Dr.P.Helan Jona | Member | |
| 4 | Dr. G. Gayathri | Member | |
| 5 | Dr.Cecilia Merlin Wilton | Member | |
| 6 | Ms.A.Violet Pangaja Bai | Member | |
| 7 | Dr.J.Jenifer Nancy | Member | |
| 8 | Ms.M.Irudhaya Pushpam | Member | |
| 9 | Ms. Diana Betty Garret | Member | |
| 10 | Dr.S.Ramalakshmi | Member | |
| 11 | Dr.R. Shanthi | Member | |
| 12 | Ms.P.K.Durgadevi | Member | |
| 13 | Ms. T. Haseena Banu | Member | |
| 14 | Dr. V.Sudhandra Devi | Member | |
| 15 | Ms.A.Edel Flora Mary | Member | |
| 16 | Ms.N. Yoga | Member | |
| 17 | Ms.L.Samyuktha | Member | |
| 18 | Dr.S.Senthilkumari | Member | |
| 19 | Dr.R.Vanitha | Member | |
| 20 | Ms.Vanmathi. Siva | Member | |

Student Representatives

| S. No | Name | Class | Signature |
|---|---|---|---|
| 1 | S. Aishwarya | II MA English | AAA |
| 2 | V. Deepika | II MA English | AAA |

| | | |
|---|---|---|
| **Dr.P.Urmila**<br>PG Chairperson<br>Professor & PG Head<br>Department of English<br>Cauvery College for Women<br>(Autonomous)<br>Trichy – 620 018 | **Dr.S.Jayashree Agarwal**<br>UG Chairperson<br>Associate Professor & UG Head<br>Department of English<br>Cauvery College for Women<br>(Autonomous)<br>Trichy – 620 018 | **Dr. N.Savithri**<br>Dean of Arts<br>Cauvery College for<br>Women (Autonomous)<br>Trichy – 620 018 |

DEAN OF ARTS
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TIRUCHIRAPPALLI - 620 018
TAMILNADU

**Cauvery College for Women (Autonomous), Tiruchirappalli -620 018**
**PG Department of English**
**Twelfth Board of Studies Meeting Held on 03.04.2025**

1. Introduction of new courses from the academic year 2024-2025 based on the feedback collected from various stakeholders.

The Chairman of the Board Dr. P. Urmila, PG, HOD & Dr. S. Jayashree Agarwal UG, HOD proposed the introduction of the following new course(s) in the curriculum of the BA English & MA English from the academic year 2024-2025.

| Name of the Programme | Name of the Course | Course Code | Year of Introduction |
|---|---|---|---|
| BA English | Health and Wellness | 24UGHW | 2025 |
| | Introduction to NCC | 24UNC3GEC1 | 2025 |
| | Specialization in Array | 24UNC4GEC2 | 2025 |
| MA English | - | - | - |

2. Revision of syllabus of the existing courses from the academic year 2024 -2025 based on the feedback collected from various stakeholders.

The Chairman of the Board, Dr. P. Urmila, PG, HOD & Dr. S. Jayashree Agarwal UG, HOD, proposed the revision of syllabus in the curriculum of the BA English & MA English from the academic year 2024-2025.

| Name of the Programme | Name of the Course | Course Code | Core/Elective | % of Content added or replaced |
|---|---|---|---|---|
| B.A. English (SEM - VI) | English Language Teaching | 24UEN6CC13 | Core Course | 20% |
| | Canadian Literature | 24UEN6CC14 | Core Course | 20% |
| M.A. English | - | - | - | - |

**Chairman of the Board**

Dr. P. URMILA
Professor & Head (PG)
PG Department of English
Cauvery College for Women (Autonomous)
Tiruchirappalli - 620 018

**Dean of Arts**

DEAN OF ARTS
CAUVERY COLLEGE FOR WOMEN
(AUTONOMOUS)
ANNAMALAI NAGAR
TIRUCHIRAPPALLI - 620 018
TAMILNADU

# CAUVERY COLLEGE FOR WOMEN (AUTONOMOUS)

NATIONALLY ACCREDITED (IV CYCLE) A+ GRADE BY NAAC

TIRUCHIRAPALLI

## PG DEPARTMENT OF ENGLISH

# BA ENGLISH

## SYLLABUS

## 2024- 2025 AND ONWARDS

CAUVERY COLLEGE FOR WOMEN (AUTONOMOUS)

PG DEPARTMENT OF ENGLISH

## VISION

- The Department of English envisions the learners to explore and empower LSRW skills there by gaining competency in various genres of literature across the world.
- Ensuring the aesthetic sensibility and creativity of the learners for higher pursuits in research and professional career.

## MISSION

- Procure academic excellence by mastering language and literature, imbibe human values embedded with personality enrichment.
- To gratify the needs of employability and enshrine learners as socially responsible citizens

## PROGRAMME EDUCATIONAL OBJECTIVES (PEOs)

| PEOs | STATEMENTS |
|---|---|
| PEO1 | **LEARNING ENVIRONMENT**<br>To facilitate value-based holistic and comprehensive learning by integrating innovative learning practices to match the highest quality standards and train the students to be effective leaders in their chosen fields. |
| PEO2 | **ACADEMIC EXCELLENCE**<br>To provide a conducive environment to unleash their hidden talents and to nurture the spirit of critical thinking and encourage them to achieve their goal. |
| PEO3 | **EMPLOYABILITY**<br>To equip students with the required skills in order to adapt to the changing global scenario and gain access to versatile career opportunities in multidisciplinary domains. |
| PEO4 | **PROFESSIONAL ETHICS AND SOCIAL RESPONSIBILITY**<br>To develop a sense of social responsibility by formulating ethics and equity to transform students into committed professionals with a strong attitude towards the development of the nation. |
| PEO5 | **GREEN SUSTAINABILITY**<br>To understand the impact of professional solutions in societal and environmental contexts and demonstrate the knowledge for an overall sustainable development. |

## PROGRAMME OUT COMES FOR BA ARTS (TAMIL, ENGLISH AND SOCIAL WORK PROGRAMME

| PO NO. | PROGRAMME OUT COMES<br>**On completion of BA Programme, the students will be able to** |
|---|---|
| **PO1** | Possess thorough knowledge of language and understand the concerns of the society in real situations and work environment. (Academic Excellence with Social Thinking) |
| **PO2** | Express thoughts and ideas effectively using appropriate texts, media and evaluate practices, policies and theories by applying scientific and social approaches. (Skilled Proficiency) |
| **PO3** | Acquire training skills in research, internships and foster team spirit in the global world and face the challenges in a multicultural society. (Team Building and Problem Solving) |
| **PO4** | Relate and apply exemplary role models/writers and their values to elucidate different kinds of unknown problems. (Leadership Traits & Critical Thinking) |
| **PO5** | Inculcate lifelong learning by fostering scientific attitude aimed at personal and societal development to meet the changing demands of work and career through knowledge and skills. (Situational Approach and Lifelong Learning) |

## PROGRAMME SPECIFIC OUT COMES FOR BA ENGLISH

| PSO NO. | PROGRAMME SPECIFIC OUTCOMES<br>**Students of BA English will be able to** | POs Addressed |
|---|---|---|
| **PSO 1** | Gain competence and confidence in acquiring LSRW skills in English Language and Literature to face the realities of life. | **PO1** |
| **PSO 2** | Empower and appreciate knowledge of various genres of literature and develop an eclectic taste to appreciate the literary movements, cultural and social contexts in relation with the society and the world. | **PO2**<br>**PO3** |
| **PSO 3** | Explore and analyse the works of the writers from political, historical, ethical and sociological perspectives for higher learning and research. | **PO3** |
| **PSO 4** | Attain proficiency to solve the complexities of human life through various genres of literature till the present modern age and train them to be socially committed citizens. | **PO1**<br>**PO4** |
| **PSO 5** | Achieve in depth knowledge to comprehend communication skills, linguistics, journalism and literature in different modes of learning to gain job opportunities for a better self and society. | **PO5** |

CAUVERY COLLEGE FOR WOMEN, AUTONOMOUS, TRICHY - 18.

PG DEPARTMENT OF ENGLISH

BA ENGLISH - PROGRAMME STRUCTURE

LEARNING OUTCOME BASED CURRICULUM FRAMEWORK (CBCS - LOCF)

(For the Candidates admitted from the Academic Year 2024 - 2025 Batch and onwards)

SEMESTER - I

| Semester | Part | Course | Course Title | Course Code | Inst. Hrs. / Week | Credits | Exam Hours | Exam Marks Int | Exam Marks Ext | Total |
|---|---|---|---|---|---|---|---|---|---|---|
| | I | Language Course - I (LC) | பொதுத்தமிழ் - I | 23ULT1 | 6 | 3 | 3 | 25 | 75 | 100 |
| | | | Hindi ka Samanya Gyan aur Nibandh | 23ULH1 | | | | | | |
| | | | Poetry, Grammar and History of Sanskrit Literature | 23ULS1 | | | | | | |
| | | | Foundation Course: Paper - I - French - I | 23ULF1 | | | | | | |
| | II | English Language Course- I (ELC) | General English - I | 23UE1 | 6 | 3 | 3 | 25 | 75 | 100 |
| | III | Core Course - I (CC) | Introduction to Literature | 23UEN1CC1 | 6 | 5 | 3 | 25 | 75 | 100 |
| | | Core Course - II (CC) | Indian Writing in English | 23UEN1CC2 | 6 | 5 | 3 | 25 | 75 | 100 |
| | | First Allied Course- I (AC) | Social History of England | 23UEN1AC1 | 4 | 3 | 3 | 25 | 75 | 100 |
| | IV | Ability Enhancement Compulsory Course - I (AECC) | UGC Jeevan Kaushal – Value Education | 23UGVE | 2 | 2 | - | 100 | - | 100 |
| | Total | | | | 30 | 21 | | | | 600 |

SEMESTER - II

| Semester | Part | Course | Course Title | Course Code | Inst. Hrs/ Week | Credits | Exam Hours | Exam Marks Int | Exam Marks Ext | Total |
|---|---|---|---|---|---|---|---|---|---|---|
| II | I | Language Course – II (LC) | பொதுத்தமிழ் - II | 23ULT2 | 6 | 3 | 3 | 25 | 75 | 100 |
| | | | Hindi Literature & Grammar – II | 22ULH2 | | | | | | |
| | | | Prose, Grammar and History of Sanskrit Literature | 23ULS2 | | | | | | |
| | | | Basic French – II | 22ULF2 | | | | | | |
| | II | English Language Course - II (ELC) | General English - II | 23UE2 | 6 | 3 | 3 | 25 | 75 | 100 |
| | III | Core Course – III (CC) | Poetry - I | 23UEN2CC3 | 6 | 5 | 3 | 25 | 75 | 100 |
| | | Core Course- IV (CC) | Fiction | 23UEN2CC4 | 5 | 5 | 3 | 25 | 75 | 100 |
| | | First Allied Course – II (AC) | Literary Forms | 23UEN2AC2 | 5 | 3 | 3 | 25 | 75 | 100 |
| | IV | Ability Enhancement Compulsory Course - II (AECC) | Environmental Studies | 23UGEVS | 2 | 2 | - | 100 | - | 100 |
| | Extra Credit Course | | SWAYAM | As per UGC Recommendation | | | | | | |
| | Total | | | | 30 | 21 | | | | 600 |

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TAMILNADU

CAUVERY COLLEGE FOR WOMEN, AUTONOMOUS, TRICHY - 18.

PG DEPARTMENT OF ENGLISH

BA ENGLISH - PROGRAMME STRUCTURE

LEARNING OUTCOME BASED CURRICULUM FRAMEWORK (CBCS - LOCF)

(For the Candidates admitted from the Academic Year 2024 – 2025 Batch and onwards)

## SEMESTER – III

| Semester | Part | Course | Course Title | Course Code | Inst. Hrs./ Week | Credits | Exam Hours | Exam Marks Int | Exam Marks Ext | Total |
|---|---|---|---|---|---|---|---|---|---|---|
| III | I | Language Course - III (LC) | பொதுத்தமிழ் – III | 23ULT3 | 6 | 3 | 3 | 25 | 75 | 100 |
| | | | Hindi Literature & Grammar - III | 22ULH3 | | | | | | |
| | | | Drama, Grammar and History of Sanskrit Literature | 23ULS3 | | | | | | |
| | | | Intermediate French - I | 22ULF3 | | | | | | |
| | II | English Language Course - III (ELC) | Learning Grammar Through Literature - I | 23UE3 | 6 | 3 | 3 | 25 | 75 | 100 |
| | III | Core Course - V(CC) | One Act Plays | 23UEN3CC5 | 5 | 5 | 3 | 25 | 75 | 100 |
| | | Core Course - VI(CC) | Poetry - II | 23UEN3CC6 | 5 | 5 | 3 | 25 | 75 | 100 |
| | | Second Allied Course - I (AC) | History of English Literature - I | 23UEN3AC3 | 4 | 3 | 3 | 25 | 75 | 100 |
| | IV | Ability Enhancement Compulsory Course - III (AECC) | Innovation and Entrepreneurship | 22UGIE | 2 | 1 | - | 100 | - | 100 |
| | | Ability Enhancement Compulsory Course - IV (AECC) | Health and Wellness | 24UGHW | 2* | 1 | | 100 | | 100 |
| | | Generic Elective Course - I (GEC) | Presentation Skills in English | 23UEN3GEC1 | 2 | 2 | 3 | 25 | 75 | 100 |
| | | | Introduction to NCC@ | 24UNC3GEC1 | | | | | | |
| | | | Basic Tamil - I | 22ULC3BT1 | | | | | | |
| | | | Special Tamil - I | 22ULC3ST1 | | | | | | |
| | | Total | | | 30 | 23 | | | | 800 |

## SEMESTER – IV

| Semester | Part | Course | Course Title | Course Code | Inst. Hrs./ Week | Credits | Exam Hours | Exam Marks Int | Exam Marks Ext | Total |
|---|---|---|---|---|---|---|---|---|---|---|
| IV | I | Language Course - IV (LC) | பொதுத்தமிழ் - IV | 23ULT4 | 6 | 3 | 3 | 25 | 75 | 100 |
| | | | Hindi Literature & Functional Hindi | 22ULH4 | | | | | | |
| | | | Alankara, Didactic and Modern Literature and Translation | 23ULS4 | | | | | | |
| | | | Intermediate French - II | 22ULF4 | | | | | | |
| | II | English Language Course - IV (ELC) | Learning Grammar Through Literature - II | 23UE4 | 6 | 3 | 3 | 25 | 75 | 100 |
| | III | Core Course - VII (CC) | Drama | 23UEN4CC7 | 5 | 5 | 3 | 25 | 75 | 100 |
| | | Core Course - VIII (CC) | Introduction to Language and Linguistics | 23UEN4CC8 | 5 | 5 | 3 | 25 | 75 | 100 |
| | | Second Allied Course - II (AC) | History of English Literature - II | 23UEN4AC4 | 4 | 3 | 3 | 25 | 75 | 100 |
| | IV | Generic Elective Course - II (GEC) @ | Communication Skills in English | 23UEN4GEC2 | 2 | 2 | 3 | 25 | 75 | 100 |
| | | | Specialization in Army@ | 24UNC4GEC2 | | | | | | |
| | | | Basic Tamil - II | 22ULC4BT2 | | | | | | |
| | | | Special Tamil -II | 22ULC4ST2 | | | | | | |
| | | Skill Enhancement Course - I (SEC) | Public Speaking (P) | 23UEN4SEC1P | 2 | 2 | 3 | 40 | 60 | 100 |
| | | Total | | | 30 | 23 | | | | 700 |
| 30 Days INTERNSHIP during Semester Holidays | | | | | | | | | | |

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CAUVERY COLLEGE FOR WOMEN, AUTONOMOUS, TRICHY - 18.

PG DEPARTMENT OF ENGLISH

BA ENGLISH - PROGRAMME STRUCTURE

LEARNING OUTCOME BASED CURRICULUM FRAMEWORK (CBCS - LOCF)

(For the Candidates admitted from the Academic Year 2024 – 2025 Batch and onwards)

SEMESTER - V

| Semester | Part | Course | Course Title | Course Code | Inst. Hrs./ Week | Credits | Exam Hours | Exam Marks Int | Exam Marks Ext | Total |
|---|---|---|---|---|---|---|---|---|---|---|
| V | III | Core Course – IX (CC) | Shakespeare | 23UEN5CC9 | 6 | 5 | 3 | 25 | 75 | 100 |
| | | Core Course – X (CC) | Principles of Literary Criticism | 23UEN5CC10 | 5 | 5 | 3 | 25 | 75 | 100 |
| | | Core Course – XI (CC) | American Literature | 23UEN5CC11 | 5 | 5 | 3 | 25 | 75 | 100 |
| | | Core Course – XII (CC) | Women's Writing in English | 23UEN5CC12 | 5 | 5 | 3 | 25 | 75 | 100 |
| | | Internship | Internship | 25UEN4INT | - | 2 | | | | 100 |
| | | Discipline Specific Elective – I (DSE) | A. Diasporic Literature | 23UEN5DSE1A | 5 | 3 | 3 | 25 | 75 | 100 |
| | | | B. Translation: Theory and Practice | 23UEN5DSE1B | | | | | | |
| | | | C. World Classics in Translation | 23UEN5DSE1C | | | | | | |
| | IV | Ability Enhancement Compulsory Course – V (AECC) | UGC Jeevan Kaushal - Professional Skills | 22UGPS | 2 | 2 | - | 100 | - | 100 |
| | | Skill Enhancement Course – II (SEC) | English for BPO | 23UEN5SEC2 | 2 | 2 | 3 | 25 | 75 | 100 |
| | Total | | | | 30 | 29 | | | | 800 |

SEMESTER – VI

| Semester | Part | Course | Course Title | Course Code | Inst. Hrs./ Week | Credits | Exam Hours | Exam Marks Int | Exam Marks Ext | Total |
|---|---|---|---|---|---|---|---|---|---|---|
| VI | III | Core Course – XIII(CC) | English Language Teaching | 24UEN6CC13 | 6 | 5 | 3 | 25 | 75 | 100 |
| | | Core Course –XIV(CC) | Canadian Literature | 24UEN6CC14 | 6 | 5 | 3 | 25 | 75 | 100 |
| | | Core Course – XV(CC) | Cyber Security | 22UGCS | 5 | 4 | 3 | 25 | 75 | 100 |
| | | Discipline Specific Elective – II (DSE) | A. Journalism | 23UEN6DSE2A | 5 | 3 | 3 | 25 | 75 | 100 |
| | | | B. Content Writing | 23UEN6DSE2B | | | | | | |
| | | | C. Phonetics | 23UEN6DSE2C | | | | | | |
| | | Project | Project Work | 24UEN6PW | 7 | 4 | - | - | 100 | 100 |
| | V | Ability Enhancement Compulsory Course -VI (AECC) | Gender Studies | 22UGGS | 1 | 1 | - | 100 | - | 100 |
| | | Extension activity | | 22UGEA | - | 1 | - | - | - | - |
| | | | | Total | 30 | 23 | | | | 600 |
| | | | | Grand Total | 180 | 140 | | | | 4100 |

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TAMILNADU

## COURSES & CREDITS FOR UG PROGRAMME

| Part | Course | No. of Courses | Credits | Total Credits |
|---|---|---|---|---|
| I | Tamil / Other Languages | 4 | 12 | 12 |
| II | English | 4 | 12 | 12 |
| III | Core Courses | 14 | 70 | 98 |
| | Cyber Security | 1 | 4 | |
| | Project Work | 1 | 4 | |
| | Internship | 1 | 2 | |
| | First Allied - Allied Course (AC) | 2 | 6 | |
| | Second Allied - Allied Course (AC) | 2 | 6 | |
| | Discipline Specific Elective (DSE) | 2 | 6 | |
| IV | Generic Elective Course (GEC) | 2 | 4 | 17 |
| | Skill Enhancement Course (SEC) | 2 | 4 | |
| | AECC - I - Value Education | 1 | 2 | |
| | AECC - II - Environmental Studies | 1 | 2 | |
| | AECC - III - Innovation and Entreprenеurship | 1 | 1 | |
| | AECC - IV – Health & Wellness | 1 | 1 | |
| | AECC - V - Professional Skills | 1 | 2 | |
| | AECC - VI - Gender Studies | 1 | 1 | |
| | Extension Activities | - | 1 | 01 |
| | Total | 41 | | 140 |
| | | | | |

| | | |
|---|---|---|
| Signature | Dr. P. URMILA<br>Professor & Head (PG)<br>PG Department of English<br>Cauvery College for Women (Autonomous)<br>Tiruchirappalli - 620 018 | N Savithri |
| Name & Designation | Dr. S. Jayashree Agarwal<br>HOD | Dr. N. Savithri<br>Dean |

DEAN OF ARTS
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TAMILNADU

| Semester – VI | Internal Marks: 25 | | | External Marks: 75 |
|---|---|---|---|---|
| COURSE CODE | COURSE TITLE | CATEGORY | HRS / WEEK | CREDITS |
| 24UEN6CC13 | ENGLISH LANGUAGE TEACHING | CORE COURSE - XIII | 6 | 5 |

**COURSE OBJECTIVES**

- To expose learners to various approaches & methods, aspects and strategies of teaching English.
- To help the learners understand the essential components & concepts of Languageteaching.
- To Learn the pedagogical principles and develop their professional skills.

**COURSE OUTCOME AND COGNITIVE LEVEL MAPPING**

On the successful completion of this course, the students will be able to

| CO NUMBER | CO STATEMENT | COGNITIVE LEVEL |
|---|---|---|
| CO1 | Relate the methodologies in the teaching of various forms of literature (Poetry, Grammar, Vocabulary, Composition,Pronunciation, LSRW Skills) | K1 |
| CO2 | Explain the various approaches, methods and techniques of teaching English. | K2 |
| CO3 | Demonstrate the use of Audio-visual aids in the teaching of language. | K3 |
| CO4 | Apply the knowledge in preparing and designing curriculum, syllabus and course. | K4 |
| CO5 | Analyze the essential components and concepts of ELT | K4 |

**MAPPING OF CO WITH PO AND PSO**

| CO | PSO1 | PSO2 | PSO3 | PSO4 | PSO5 | PO1 | PO2 | PO3 | PO4 | PO5 |
|---|---|---|---|---|---|---|---|---|---|---|
| CO1 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| CO2 | 3 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| CO3 | 3 | 3 | 2 | 3 | 3 | 3 | 2 | 2 | 3 | 3 |
| CO4 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 2 | 3 | 3 |
| CO5 | 3 | 3 | 3 | 3 | 3 | 2 | 3 | 3 | 3 | 3 |

**"1" – Slight (Low) Correlation** **"2" - Moderate (Medium) Correlation**

**"3" – Substantial (High) Correlation** **"-" indicates there is No Correlation.**

SYLLABUS

| UNIT | CONTENT | HOURS | COs | COGNITIVE LEVEL |
|---|---|---|---|---|
| I | Issues Involved in the Teaching of English<br>Explanation of Curriculum, Syllabus, Course<br>Methods and Techniques<br>Teaching English as a Second Language<br>Teaching English as a Foreign Language (EFL)<br>English for Specific Purposes | 18 | CO1, CO2, CO3, CO4, CO5 | K1, K2 K3, K4 |
| II | Approaches and Methods:<br>Grammar Translation Method<br>Audio-lingual Method<br>Communicative Language Teaching Approach Natural Approach<br>Total Physical Response | 18 | CO1, CO2, CO3, CO4, CO5 | K1, K2 K3, K4 |
| III | Teaching of Grammar, Vocabulary, Poetry, Prose, Drama,<br>Teaching of Fiction<br>Task–Based Language Teaching | 18 | CO1, CO2, CO3, CO4, CO5 | K1, K2 K3, K4 |
| IV | Teaching LSRW and their Sub Skills,<br>Blended Learning<br>Peer and Practice Teaching<br>Hands on Experience<br>Objectives, Lesson Plans<br>Testing – Types of Tests – Characteristics of a Good Test | 18 | CO1, CO2, CO3, CO4, CO5 | K1, K2 K3, K4 |
| V | Use of Audio -Visual Aids in Teaching English<br>Language and ICT Tools<br>Assessment and Evaluation,<br>Critical Thinking<br>Testing – Types of Tests – Characteristics of a Good Test | 18 | CO1, CO2, CO3, CO4, CO5 | K1, K2 K3, K4 |
| VI | **Self-study for Enrichment**<br>**(Not to be included for End Semester Examination)**<br>Tasks for Language Learning<br>Writing and Reading Facilitative e-tools. Managing<br>Teaching Through Virtual Learning Environment | - | CO1, CO2, CO3, CO4, CO5 | K1, K2 K3, K4 |

**TEXT BOOKS**


Brown, H. Doughlas *Language Assessment - Principles and Classroom Practice*, Pearson Education New York3rd edition 2018

Brown, H. Doughlas *Principles of Language Learning and Teaching* Pearson Education New York 6th edition 2007

Richards Jack.C and Rodgers Theodre S. *Approaches and Methods in Language Teaching*, 3rd edition 2014Cambridge University Press 3rd edition 2014

Baruah T.C. *The English Teacher's Handbook* Sterling Publishers, New Delhi 1991

Varghese, Paul *Teaching English as a Second Language* Sterling Publishers New Delhi, 1990

John Ambrose Bright, G. P. McGregor *Teaching English as a Second Language*: Theory and Techniques for the Secondary Stage, Longman, 1970

**REFERENCE BOOKS**

Nagarajan, K., Natarajan, S., and Manivasagan, C. R. *Educational Innovations and Management*. Ram Publishers, 2009.

**WEB REFERENCES**

https://www.msuniv.ac.in/images/academic/academic_affairs/M.Phil-Research&TeachingMethodology.pdf
https://smartlib.umri.ac.id/assets/uploads/files/af2ff-language-teaching-principles-1-.pdf
https://carreirainglesucc.files.wordpress.com/2019/05/teaching-english-as-a-foreign-language-routledge-education-books.pdf
https://evelintampubolon.files.wordpress.com/2016/09/h-_douglas_brown_-_language_assessment.pdf
https://avys.omu.edu.tr/storage/app/public/dbuyukahiska/134963/Approaches-and-Methods-in-Language-Teaching.pdf
https://www.professorjackrichards.com/wp-content/uploads/Richards-Communicative-Language.pdf
https://people.ucsc.edu/~ktellez/richards-rodger.pdf
https://thejoyoflanguageassessment.wordpress.com/2012/12/19/kind-of-test/
https://ebooks.inflibnet.ac.in/engp12/chapter/reflectiveteaching/#:~:text=Reflective%20Teaching%20is%20an%20approach,critically%20thinking%20about%20it%20and
http://www.sfsmahavidyalaya.ac.in/studyMaterial/4576SEM-4_-SEC-2_-STRUCTURAL-APPROACH-13-05-2020.pdf

**PEDAGOGY -** Quiz, Assignment, Seminar, Discussion.

**COURSE DESIGNER - Dr. R. Uma Maheswari**

R Uma

**SIGNATURE OF THE COURSE DESIGNER**

**SIGNATURE OF THE HOD**

H.O.D - UG
DEPT. OF ENGLISH
CAUVERY COLLEGE FOR WOMEN
TIRUCHY - 620 018

OF ARTS
CAUVERY COLLEGE FOR WOMEN
(AUTONOMOUS)
ANNAMALAI NAGAR
TIRUCHIRAPPALLI - 620 018
TAMILNADU

| Semester – VI | Internal Marks: 25 | | | External Marks: 75 |
|---|---|---|---|---|
| COURSE CODE | COURSE TITLE | CATEGORY | HRS / WEEK | CREDITS |
| 24UEN6CC14 | CANADIAN LITERATURE | CORE COURSE - XIV | 6 | 5 |

**COURSE OBJECTIVES**

- To enable the students to understand and appreciate the uniqueness of Canadian Literature.
- To create awareness about Canadian culture and literary imagination of Canada.
- To explore the language landscapes, cultural heritage and nationality of Canadian Literature.

**COURSE OUTCOME AND COGNITIVE LEVEL MAPPING**

On the successful completion of this course, the students will be able to

| CO NUMBER | CO STATEMENT | COGNITIVE LEVEL |
|---|---|---|
| CO1 | Relate the themes and styles of Canadian writers from social and political background. | K1 |
| CO2 | Illustrate the themes of Canadian Literature that are directly related to the landscape of Canada and the experiences of the first settlers in today's scenario. | K2 |
| CO3 | Identify the various perspectives of First Nation aboriginal Canadian literature for critical thinking and higher learning levels. | K3 |
| CO4 | Analyse the narrative techniques used by Canadian writers to bring out man's relationship with nature and man. | K4 |
| CO5 | Examine the various writers of Canadian Literature and texts for critical thinking and better prospects. | K4 |

**MAPPING OF CO WITH PO AND PSO**

| CO | PSO1 | PSO2 | PSO3 | PSO4 | PSO5 | PO1 | PO2 | PO3 | PO4 | PO5 |
|---|---|---|---|---|---|---|---|---|---|---|
| CO1 | 2 | 3 | 3 | 3 | 2 | 3 | 3 | 3 | 3 | 3 |
| CO2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| CO3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| CO4 | 3 | 3 | 3 | 3 | 3 | 2 | 2 | 2 | 2 | 3 |
| CO5 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |

**"1" – Slight (Low) Correlation** **"2" - Moderate (Medium) Correlation**

**"3" – Substantial (High) Correlation** **"-" indicates there is No Correlation.**

SYLLABUS

| UNIT | CONTENT | HOURS | COs | COGNITIVE LEVEL |
|---|---|---|---|---|
| I | **Introduction to Canadian Literature**<br>Characteristics of Canadian Literature.<br>Elements in Canadian Literature (Nature and Landscape. Multiculturalism and Identity) | 18 | CO1, CO2, CO3, CO4, CO5 | K1, K2, K3, K4 |
| II | **Poetry**<br>John Mc Crae - "In Flanders Fields"<br>Robert Service-"The Spell of the Yukon"<br>Margaret Atwood– "Morning in the Burned House" | 18 | CO1, CO2, CO3, CO4, CO5 | K1,K2 K3,K4 |
| III | **Short Stories**<br>Alice Munro-"The Bear Came over the Mountain"<br>Sinclair Ross - "The Lamp at Noon"<br>Thomas King – "Borders" | 18 | CO1, CO2, CO3, CO4, CO5 | K1, K2 K3, K4 |
| IV | **Drama**<br>George Ryga - *The Ecstasy of Rita Joe*<br>Tomson Highway - *The Rez Sisters* | 18 | CO1, CO2, CO3, CO4, CO5 | K1, K2 K3, K4 |
| V | **Fiction**<br>Margaret Atwood – *The Blind Assassin*<br>M. G Vassangi – *No New Land* | 18 | CO1, CO2, CO3, CO4, CO5 | K1,K2 K3,K4 |
| VI | **Self-study for Enrichment**<br>**(Not to be included for End Semester Examination)**<br>Immigration and Multiculturalism<br>A.M.Klein - "Portrait of the Poet as a Landscape"<br>William Moris - "Love is Enough"<br>Gabrielle Roy- *Enchantment and Sorrow* | - | CO1, CO2, CO3, CO4, CO5 | K1,K2 K3,K4 |

**TEXTBOOKS**


New,W.H. *History of Canadian Literature*. New Amsterdam Books, 1998.

Ryga, George. *The Ecstasy of Rita Joe*. Talon books, 1970.

Highway,Tomson. *The Rez Sisters*. Fifth House Publishers,1992.

Atwood, Margaret. *The Blind Assassin*. Anchor, 2001.

Munro, Alice. *Hateship, Friendship, Courtship, Loveship, Marriage*. Vintage, 2001.

**REFERENCE BOOKS**

Cameron, Elspeth. *Canadian Culture: An Introductory Reader*. Canadian Scholars, 1996.

Narasimhiah, C. D. *An Anthology of Commonwealth Poetry*. Lakshmi Publications, 2016.

**WEB REFERENCES**

https://www.canadiantheatre.com/dict.pl?term=The%20Ecstasy%20of%20Rita%20Joe

https://canlitguides.ca/canlit-guides-editorial-team/the-rez-sisters-by-tomson-highway/

**PEDAGOGY** - Quiz, Assignment, Seminar, PowerPoint Presentation, Discussion.

**COURSE DESIGNER** - Ms. Diana Betty Garrett

**SIGNATURE OF THE COURSE DESIGNER**

**SIGNATURE OF THE HOD**

H.O.D - UG
DEPT. OF ENGLISH
CAUVERY COLLEGE FOR WOMEN (AUTONOMOUS)
TRICHY - 620 018

DEAN OF ARTS
CAUVERY COLLEGE FOR WOMEN
(AUTONOMOUS)
ANNAMALAI NAGAR
TIRUCHIRAPPALLI - 620 018
TAMILNADU

# ANNEXURE D

**CAUVERY COLLEGE FOR WOMEN (AUTONOMOUS)**
**Nationally Accredited (IV Cycle) with A+ Grade by NAAC**
**Annamalai Nagar, Tiruchirappalli**
**PG & RESEARCH DEPARTMENT OF SOCIAL WORK**
**MINUTES OF THE TWELFTH MEETING OF THE BOS**

**Agenda for the Meeting of**

**BoS Date : 02/04/2025**

**Venue : F 8**

**Time : 9.30 am**

**The Agenda for the meeting is as follows:**

**ITEM NO: BOS/12/25/01**

To consider and to approve the III, IV, V & VI Semester syllabus of BSW for 2024-2025 batch and onwards and to recommend to the Academic Council, Cauvery College for Women (Autonomous), Trichy.

**ITEM NO: BOS/12/25/02**

To consider and to approve the ratification of I Semester syllabus of Ability Enhancement Compulsory Course - I (AECC-I) of all the UG programs for 2025-2026 batch and onwards and recommend to the Academic Council, Cauvery College for Women (Autonomous), Trichy.

**ITEM NO: BOS/12/25/03**

Any other matter with the permission of the chair

**CAUVERY COLLEGE FOR WOMEN (AUTONOMOUS)**

**Nationally Accredited (IV Cycle) with A+ Grade by NAAC**
**Annamalai Nagar, Tiruchirappalli**

**PG &RESEARCH DEPARTMENT OF SOCIAL WORK**

## MINUTES OF THE TWELFTH MEETING OF THE BOS

**DATE : 02.04.2025**
**VENUE : F8**
**TIME : 09.30 a.m.**

**Members Present:**

| | |
|---|---|
| 1.Dr.G.Mettilda Buvaneswari | Chairman, Associate Professor & HOD |
| 2.Dr.G.Kanaga | Member |
| 3.Ms.PL.Rani | Member |
| 4.Dr.O.Aisha Manju | Member |
| 5.Ms.S.Hema | Member |
| 6.Dr.R.Anitha | Member |
| 7.Ms.P.Meenakshi | Member |

## ACTION TAKEN REPORT OF THE BOS HELD ON 02.04.2025

The BoS Meeting was held on 02.04.2025 at 09.30 a.m. The Chairman of the BoS read the minutes of the meeting and the following Resolutions were confirmed.

i) Confirmation of III, IV, V & VI Semester syllabus of BSW for 2024-2025 batch and onwards

ii) Confirmation of I semester syllabus of AECC -I of all UG progammes for 2025-2026 batch and onwards

**MINUTES OF THE TWELFTH MEETING OF THE BOS HELD ON 02.04.2025**

**RESOLUTION NO.BOS/12/25/01**

Resolved to approve the syllabus of AECC-IV, GEC-I of Semester III and GEC-II of Semester IV, the ratification of Evaluation of Internship of Semester V, the Credits, hours and Course Code CC-XI and hours and Course Code of Project work of Semester VI for BSW for 2024-2025 batch and onwards and recommended to the Academic Council, Cauvery College for Women (Autonomous), Trichy - 18 with the following changes for

1. New course introduced AECC – IV – Health and Wellness approved with 1 Credit and Course Code 24UGHW.
2. New course introduced GEC- I- Introduction to NCC with 2 Credits and Course Code 24UNC3GEC1.
3. New course introduced GEC -II- Specialization in Army with 2 Credits and Course Code 24UNC4GEC2
4. The 15 days duration of Internship in the IV semester with the course code 23USW4INT is changed to 30 days internship with the course of Course code 24USW5INT and its Evaluation of Semester IV is planned to conduct in Semester V with the following evaluation pattern

**Mode of Evaluation**

| S.No. | Components | Marks |
|---|---|---|
| **I** | **VIVA VOCE** | |
| 1 | Attendance | 05 |
| 2 | Objectives fulfilled | 05 |
| 3 | Initiatives taken in the field | 10 |
| 4 | Documentation Skills | 20 |
| | **Total** | **40** |
| **II** | **Agency Evaluation** | |
| 1 | Regularity and use of field work supervision | 10 |
| 2 | Relationship with staff & Co Trainees | 05 |
| 3 | Organising a programme | 10 |
| 4 | Communication Skills | 05 |
| 5 | Case Study ( only one) | 10 |
| 6 | Reporting Skills | 20 |
| | **Total** | **60** |
| | **GRAND TOTAL** | **100** |

5. The Core Course XI 22USW6CC11 titled Welfare of the Persons with Disability of 2022-2023 batch has been removed and Core Course XII 22USW6CC12 Correctional Social Work with instructional hours 3 and credits 3 of 2022-2023 batch changes as Core Course XI with the Course Code 24USW6CC11 Instructional hours 6 and credits 5 for 2024-2025 batch and onwards.

**Course Code XI - Correctional Social Work -24USW6CC11**

Topics Deleted:

**UNIT I :**Typology of Crime-Professional Crime, Organised Crime, White Collar Crime, Female Crime and Cyber Crime, Profile of crime statistics in India

Topics Included:
**UNIT I :**Classification of crime: Indictable crimes , Petty crimes, Felonies, Misdemeanours.

6. The hours of Project Work Course Code 23USW6PW with 5 hours of 2023-2024 batch is changed as 7 hours with the Course Code 24USW6PW

**RESOLUTION NO.BOS/12/25/02**

Resolved to approve the ratification of the syllabus of AECC-I, of Semester I of all UG courses for 2025-2026 batch and onwards and recommended to the Academic Council, Cauvery College for Women (Autonomous), Trichy - 18 with the following changes for

Revision of syllabus of Ability Enhancement Course I (AECC-I) -Course Code - 25UGVE- UGC Jeevan Kaushal Universal Human Values

**Topics Included:**

**Unit V :** Human Values Vs Moral Values; Changing values in society

**Chairman** **Dean of Arts** **Principal**

**Cauvery College for Women (Autonomous), Tiruchirappalli -620 018**

**PG & Research Department of Social Work**

**XII Board of Studies Meeting Held on 02.04.2025**

**1. Introduction of new courses for the academic year 2024-2025**

| Name of the Programme | Name of the Course | Course Code | Year of Introduction |
|---|---|---|---|
| BSW | AECC – IV – Health and Wellness | 24UGHW | 2025 |
| | GEC- I- Introduction to NCC | 24UNC3GEC1 | 2025 |
| | GEC- II- Specialization in Army | 24UNC4GEC2 | 2025 |

**2. Revision of syllabus of the existing courses for the academic year 2024-2025.**

The Chairman of the Board, Dr.G.Mettilda Buvaneswari proposed the revision of syllabus in the curriculum of BSW and MSW from the academic Year 2024-2025.

| Name of the programme | Name of the Course | Course Code | Core / Elective | % of Content added or replaced |
|---|---|---|---|---|
| BSW | UGC Jeevan Kaushal - Universal Human Values | 25UGVE | Ability Enhancement Compulsory Course | **5 %** |
| BSW | Correctional Social Work | 24USW6CC11 | Core | 10 % |

**Chairman** **Dean of Arts** **Principal**

**CAUVERYCOLLEGEFORWOMEN(AUTONOMOUS)**

Nationally Accredited (IV Cycle) with"A+"Grade by NAAC

**TIRUCHIRAPPALLI**

**PG&RESEARCHDEPARTMENTOFSOCIALWORK**

# SYLLABUS

## BACHELOR OF SOCIAL WORK

**2024-2025 and onwards**

## CAUVERY COLLEGE FOR WOMEN (AUTONOMOUS) PG AND RESEARCH DEPARTMENT OF SOCIAL WORK

### VISION

The vision of our department is to advance the personal, social, intellectual and personality of the students through social work education so as to achieve higher positions in serving the society across local and global community systems.

### MISSION

- To orient the students acquire knowledge, skills and values of Social Work and develop an attitude of commitment towards social work profession.
- To train the students in the fields of Social Work by enabling practice and application of theory through field work training.
- To inculcate values by means of conducting programmes through various associations attached to the department.
- To mentor the students through tutor-ward system in the department.
- To extend wider exposure to students in the field of Social Work through organizing National & International seminars, workshops, symposium etc and enable them to establish contacts with academicians, field experts, high profile personalities in different fields.

## PROGRAMME EDUCATIONAL OBJECTIVES (PEOs)

| PEOs | Statements |
|---|---|
| PEO1 | **LEARNING ENVIRONMENT**<br>To facilitate value-based holistic and comprehensive learning by integrating innovative learning practices to match the highest quality standards and train the students to be effective leaders in their chosen fields. |
| PEO2 | **ACADEMIC EXCELLENCE**<br>Toprovideaconduciveenvironmenttounleashtheirhiddentalentsandto nurture the spirit of critical thinking and encourage them to achieve their goal. |
| PEO3 | **EMPLOYABILITY**<br>To equip students with the required skills in order to adapt to the changing global scenario and gain access to versatile career opportunities in multidisciplinary domains. |
| PEO4 | **PROFESSIONAL ETHICS AND SOCIAL RESPONSIBILITY**<br>To develop a sense of social responsibility by formulating ethics and equity to Transform students in to committed professionals with a strong attitude towards the development of the nation |
| PEO5 | **GREEN SUSTAINABILITY**<br>To understand the impact of professional solutions in societal and environmental contexts and demonstrate the knowledge for an overall sustainable development. |

## PROGRAMME OUT COMES FOR BSW PROGRAMME

| PO NO. | PROGRAMME OUTCOMES<br>**On completion of BSW Programme, the students will be able to** |
|---|---|
| **PO1** | Possess thorough knowledge of language and understand the concerns of the Society in real situations and work environment. (Academic Excellence with Social Thinking) |
| **PO2** | Express thoughts and ideas effectively using appropriate texts, media and evaluate practices, policies and theories by applying scientific and social approaches. (Skilled Proficiency) |
| **PO3** | Acquire training skills in research, internships and foster team spirit in the global world and face the challenges in a multicultural society. (Team Building and Problem Solving) |
| **PO4** | Relate and apply exemplary role models/writers and their values to elucidate Different kinds of unknown problems. (Leadership Traits & Critical Thinking) |
| **PO5** | Inculcate life long learning by fostering scientific attitude aimed at personal and<br>Societal development to meet the changing demands of work and career through knowledge and skills. (Situational Approach and Lifelong Learning) |

| PSO NO. | PROGRAMME SPECIFIC OUTCOMES<br>On completion of BSW Programme, the students will be able to | POs Addressed |
|---|---|---|
| PSO1 | Demonstrate a comprehensive understanding of Social Work profession And understand the issues and problems that arise in the society. | PO1 |
| PSO2 | Identify challenges in Health sectors, family and child settings, industries, rehabilitation centres, Correctional settings,etc.and use scientific approach in handling them. | PO2,PO5 |
| PSO3 | Collaborate and coordinate with philanthropists, groups and organisations by applying professional social work skills, values and ethics through team work for the advantage of vulnerable sections of the Society | PO3,PO4 |
| PSO4 | Discover methods, techniques, models/approaches to deal with the Emerging issues, problems and challenges through critical thinking. | PO4 |
| PSO5 | Adapt to the changing situations by utilizing life skills and the desire for life long learning in their career and in day to life to achieve personal and professional goals. | PO3,PO5 |

**Cauvery College for Women (Autonomous),Trichy-18**
**PG & Research Department of Social Work**
**BACHELOR OF SOCIAL WORK**
(For the Candidates admitted from the Academic year 2024-2025 and onwards)

**SEMESTER-I**

| Semest | Part | Course | CourseTitle | Course Code | Inst. Hrs. | Credits | Exam | | | Total |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | Hrs | Marks | | |
| | | | | | | | | Int | Ext | |
| I | I | Language Course-I (LC) | Pothu Tamil-I | 23ULT1 | 6 | 3 | 3 | 25 | 75 | 100 |
| | | | Hindika Samanya Gyanaur Nibandh | 23ULH1 | | | | | | |
| | | | Poetry,Grammar and History of Sanskrit Literature | 23ULS1 | | | | | | |
| | | | Foundation Course: Paper I- French-I | 23ULF1 | | | | | | |
| | II | EnglishLanguage Course-I(ELC) | General English-1 | 23UE1 | 6 | 3 | 3 | 25 | 75 | 100 |
| | III | Core Course–I(CC) | Introduction to Social Work | 23USW1CC1 | 6 | 5 | 3 | 25 | 75 | 100 |
| | | Core Course-II(CC) | Communication in Social Wok Practice | 24USW1CC2 | 6 | 5 | 3 | 25 | 75 | 100 |
| | | First Allied Course-I (AC) | Sociology for Social Work | 23USW1AC1 | 4 | 3 | 3 | 25 | 75 | 100 |
| | IV | Ability Enhancement Compulsory Course-I (AECC) | Value Education | 23UGVE | 2 | 2 | - | 100 | - | 100 |
| | **Total** | | | | **30** | **21** | | | | **600** |

**SEMESTER-II**

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| II | I | Language Course-II (LC) | Pothu Tamil-II | 23ULT2 | 6 | 3 | 3 | 25 | 75 | 100 |
| | | | Hindi Literature& Grammar-II | 22ULH2 | | | | | | |
| | | | Prose,Grammar and History Of Sanskrit Literature | 23ULS2 | | | | | | |
| | | | Basic French-II | 22ULF2 | | | | | | |
| | II | English Language Course- II (ELC) | General English-II | 22UE2 | 6 | 3 | 3 | 25 | 75 | 100 |
| | III | Core Practicum– I(CP) | Field Work -I (P) | 24USW2CC1P | 6 | 5 | 3 | 25 | 75 | 100 |
| | | Core Course III (CC) | Methods of Social Work | 23USW2CC3 | 5 | 5 | 3 | 25 | 75 | 100 |
| | | First Allied Course–II (AC) | Basics of Economics and Political System | 23USW2AC2 | 5 | 3 | 3 | 25 | 75 | 100 |
| | IV | Ability Enhancement CompulsoryCourse-II (AECC) | Environmental Studies | 22UGEVS | 2 | 2 | - | 100 | - | 100 |
| | Extra Credit Course | | SWAYAM | As per UGC Recommendation | | | | | | |
| | **Total** | | | | **30** | **21** | | | | **600** |

## SEMESTER-III

| Semester | Part | Course | CourseTitle | CourseCode | Inst. Hrs. | Credits | Exam | | | Total |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | Hrs | Marks Int | Marks Ext | |
| III | I | Language Course-III (LC) | PothuTamil-III | 23ULT3 | 6 | 3 | 3 | 25 | 75 | 100 |
| | | | Hindi Literature & Grammar-III | 22ULH3 | | | | | | |
| | | | Drama,Grammarand History of Sanskrit Literature | 23ULS3 | | | | | | |
| | | | Intermediate French–I | 22ULF3 | | | | | | |
| | II | English Language Course-III(ELC) | Learning Grammar through Literature– I | 22UE3 | 6 | 3 | 3 | 25 | 75 | 100 |
| | III | Core Course–IV(CC) | Human Growth and Development | 22USW3CC4 | 5 | 5 | 3 | 25 | 75 | 100 |
| | | Core Practicum–II (CP) | Field Work-II **(P)** | 23USW3CC2P | 5 | 5 | 3 | 40 | 60 | 100 |
| | | SecondAlliedCourse-I (AC) | Social Legislations | 22USW3AC3 | 4 | 3 | 3 | 25 | 75 | 100 |
| | IV | Ability Enhancement Compulsory Course-III(AECC) | Innovation and Entrepreneurship | 22UGIE | 2 | 1 | - | 100 | - | 100 |
| | | Ability Enhancement Compulsory Course-IV(AECC) | Health and Wellness | 24UGIE | **2** | **1** | | **100** | | **100** |
| | | Generic Elective Course- I (GEC) | Introduction to NCC | 24UNC3GEC1 | 2 | 2 | 3 | 25 | 75 | 100 |
| | | | BasicTamil-I | 22ULC3BT1 | | | | | | |
| | | | SpecialTamil-I | 22ULC3ST1 | | | | | | |
| | | Extra Credit Course | SWAYAM | AsperUGCRecommendation | | | | | | |
| | | | **Total** | | **30** | **23** | | | | **700** |

## SEMESTER-IV

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| IV | I | Language Course-IV (LC) | PothuTamil-IV | 23ULT4 | 6 | 3 | 3 | 25 | 75 | 100 |
| | | | Hindi Literature & Functional Hindi | 22ULH4 | | | | | | |
| | | | Alnakara, Didactic and Modern Literature and Translation | 23ULS4 | | | | | | |
| | | | Intermediate French-II | 22ULF4 | | | | | | |
| | II | EnglishLanguage Course–IV(ELC) | Learning Grammar Through Literature – II | 23UE4 | 6 | 3 | 3 | 25 | 75 | 100 |
| | III | Core Course – V(CC) | Introduction to Social Work Research | 22USW4CC5 | 5 | 5 | 3 | 25 | 75 | 100 |
| | | Core Course –VI(CC) | Social Welfare Administration | 22USW4CC6 | 5 | 5 | 3 | 25 | 75 | 100 |
| | | Second Allied Course-II (AC) | Health Care Services | 22USW4AC4 | 4 | 3 | 3 | 25 | 75 | 100 |
| | IV | Generic Elective Course-II(GEC) | Human Rights | 22USW3GEC1 | 2 | 2 | 3 | 25 | 75 | 100 |
| | | | Specialization in Army | 24UNC4GEC2 | | | | | | |
| | | | BasicTamil-II | 22ULC4BT2 | | | | | | |
| | | | SpecialTamil-II | 22ULC4ST2 | | | | | | |
| | | Skill Enhancement Course– I (SEC) | Life Skills**(P)** | 22USW4SEC1P | 2 | 2 | 3 | 40 | 60 | 100 |
| | | Extra Credit Course | SWAYAM | AsperUGCRecommendation | | | | | | |
| | | | **Total** | | **30** | **23** | | | | **800** |

**30 Days INTERNSHIP during Semester Holidays**

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| **SEMESTER-V** | | | | | | | | | | |
| V | III | Core Course –VII(CC) | Family and Child Welfare | 23USW5CC7 | 6 | 5 | 3 | 25 | 75 | 100 |
| | | Core Course–VIII(CC) | Community Development | 22USW5CC8 | 5 | 5 | 3 | 25 | 75 | 100 |
| | | Core Course-IX(CC) | Introduction to Counselling and Guidance | 22USW5CC9 | 5 | 5 | 3 | 25 | 75 | 100 |
| | | Core Practicum–III(CP) | Field Work (P) - III | 23USW5CC3P | 5 | 5 | 3 | 40 | 60 | 100 |
| | | Discipline Specific Elective–I(DSE) | A.Disaster Management | 23USW5DSE1A | 5 | 3 | 3 | 25 | 75 | 100 |
| | | | B.Welfare of theVulnerable | 23USW5DSE1B | | | | | | |
| | | | C.Human Rights and Social Work | 23USW5DSE1C | | | | | | |
| | | Internship | Internship | 24USW5INT | - | 2 | - | - | 100 | 100 |
| | IV | Ability Enhancement Compulsory Course-IV(AECC) | UGC Jeevan Kaushal-Professional Skills | 22UGPS | 2 | 2 | - | 100 | - | 100 |
| | | Skill Enhancement Course – II (SEC) | Social Entrepreneurship (P) | 22USW5SEC2P | 2 | 2 | 3 | 40 | 60 | 100 |
| | **Total** | | | | **30** | **29** | | | | **700** |
| **SEMESTER-VI** | | | | | | | | | | |
| VI | III | Core CourseX | Theories of Social Work | 23USW6CC10 | 6 | 5 | 3 | 25 | 75 | 100 |
| | | Core course XI | Correctional Social Work | 24USW6CC11 | 6 | 5 | 3 | 25 | 75 | 100 |
| | | Core courseXII | Cyber Security | 22UGCS | 5 | 4 | 3 | 25 | 75 | 100 |
| | | Discipline Specific Elective – II (DSE) | A.Gerontological Social Work | 23USW6DSE2A | 5 | 3 | 3 | 25 | 75 | 100 |
| | | | B.YouthWelfare | 23USW6DSE2B | | | | | | |
| | | | C.Social Work in Industry | 23USW6DSE2C | | | | | | |
| | | Project Work | Project Work | 24USW6PW | 7 | 4 | - | - | 100 | 100 |
| | V | Ability Enhancement Compulsory Course-V (AECC) | Gender Studies | 22UGGS | 1 | 1 | - | 100 | - | 100 |
| | | Extension activity | | 22UGEA | 0 | 1 | 0 | | - | - |
| | **Total** | | | | **30** | **23** | | | | **700** |
| | **GrandTotal** | | | | **180** | **140** | | | | **4100** |

| Semester VI | Internal Marks: 25 | | | External Marks: 75 |
|---|---|---|---|---|
| COURSE CODE | COURSE TITLE | CATEGORY | HRS/WEEK | CREDITS |
| 24USW6CC11 | CORRECTIONAL SOCIAL WORK | CORE COURSE XI | 6 | 5 |

## Course Objectives

- To give a complete knowledge on what is crime and correctional social work .
- To identify the causative and preventive factors of crime.
- To give in depth analysis role of prison administration in handling prisoners .

## Course Outcomes and Cognitive Level Mapping

On the successful completion of the course, students will be able to

| CO Number | CO Statement | KNOWLEDGE LEVEL |
|---|---|---|
| CO1. | Define Crime its types and correctional social work | K1 |
| CO2. | Outline the Theories of Causation of Crimes and Prevention of crime | K2 |
| CO3. | Explain the Institutional and Non-Institutional Programmes for Juvenile Delinquents | K2 |
| CO4. | Develop the knowledge on Prison and Prisoners | K3 |
| CO5 | Role of Social Worker in Correctional Administration | K4 |

## Mapping of CO with PSO and PO

| COs | PSO1 | PSO2 | PSO3 | PSO4 | PSO5 | PO1 | PO2 | PO3 | PO4 | PO5 |
|---|---|---|---|---|---|---|---|---|---|---|
| CO1 | 2 | 1 | 3 | 3 | 1 | 3 | 2 | 1 | 1 | 1 |
| CO2 | 1 | 2 | 1 | 2 | 1 | 2 | 3 | 1 | 1 | 2 |
| CO3 | 3 | 1 | 1 | 2 | 1 | 3 | 3 | 3 | 1 | 3 |
| CO4 | 1 | 1 | 2 | 3 | 2 | 3 | 2 | 2 | 1 | 1 |
| CO5 | 3 | 1 | 2 | 1 | 1 | 1 | 2 | 2 | 2 | 2 |

**"1"- Slight (Low) Correlation "2" – Moderate (Medium) Correlation**
"3" – Substantial (High) Correlation "-" indicates there is no correlation.

**Syllabus**

| UNIT | CONTENT | HOURS | COs | COGNITIVE LEVEL |
|---|---|---|---|---|
| I | **Crime**- Concepts, meaning and Definition, Typology of Crime-Professional Crime, Organised Crime, WhiteCollar Crime, Female Crime and Cyber Crime, Profile of crime statistics in India. Classification of crime: Indictable crimes , Petty crimes, Felonies, Misdemeanours. **Punishments:** Types of punishment – Objectives of punishment – Various types of Sentencing – Treatment of Offenders **Correctional Social Work**: Concept, Scope ,origin and development of correctional social work in India. | **18** | CO1, CO2, CO3, CO4, CO5, CO6 | **K1, K2, K3, K4, K5, K6** |
| II | **Theories of Causation of crimes**-Biological Theories, Psychological Theories,Sociological Theories-Strain Theory, Social Learning Theory, Control Theory. | **18** | CO1, CO2, CO3, CO4, CO5, CO6 | **K1, K2, K3, K4, K5, K6** |
| III | **Juvenile Deliquency (Children in conflict with Law)**- Definition, Causes, Juvenile Justice System,Borstal school, Special home, Place of safety. Special Juvenile Police Unit. | **18** | CO1, CO2, CO3, CO4, CO5, CO6 | **K1, K2, K3,K4, K5, K6** |
| IV | **Prison and Prisoners**- Prison-Purpose of Imprisonment, Psycho social Impact of Imprisonment. **Correctional system in India**: Role of Central and State Governments – Prison System in India – Types of prisons. - Vigilance home and Protective home. | **18** | CO1, CO2, CO3, CO4, CO5, CO6 | **K1, K2, K3,K4, K5, K6** |
| V | **Role of Social Worker**-Welfare Activities, Education, Vocational Training, Recreation, Counselling, Rehabilitation, Probation, Parole, After care. | **18** | CO1, CO2, CO3, CO4, CO5, CO6 | **K1, K2, K3,K4, K5, K6** |

| | | | | |
|---|---|---|---|---|
| **VI** | Self-Study for Enrichment (Not to be included for External Examination)<br>Concepts of Society Culture, Norms, Conduct norms, Mores, Folkways, Social deviance, Groups, Community, Social organization and disorganization. Social structure and process, Crime, Criminal and Criminology definitions – Historical development (Ancient, Medieval and Modern) – | - | CO1, CO2, CO3, CO4, | **K1, K2, K3,K4, K5, K6** |

| | | | | |
|---|---|---|---|---|
| | Nature, origin and scope – Criminology and its relationship to other disciplines – Social construction of deviance and crime | | | |

Text Books:

1. Hagan, F. (2017). Introduction to Criminology (9th ed.). Los Angeles: SAGE
2. Siegel J. L. (2017). Criminology: Theories, patterns and typologies (13th ed.). Sydney: Cengage Learning.

Book References:


1. Ansari, M.A .1996., Social Justice and Crime in India Sunlime Publications
2. Atri, P.K. 1998 Dimensions of Crime in India., Anmol Publications Pvt.Ltd
3. Bhattacharya.S.K 2003, Social Defense-An Indian Perspectice,New Delhi, Regency Publication.
4. Brieland D., Costin, L. B., & Atherton, C. R. 1975 Contemporary social work: An introduction to social work and social welfare Tata McGraw-Hill Education
5. Panakal J.J., &Gokhale, S.D 1989 Crime and Corrections in India Bombay: Tata Institute of Social Sciences
6. Sharma, R.K. 1998 Criminology and Penelogy Atlantic Publishers and Distributors
7. Tappan, P. W 1960 Crime, justice and correction New York: McGraw-Hill


Web References

1) https://egyankosh.ac.in/bitstream/123456789/51360/1/Block-1.pdf
2) https://www.egyankosh.ac.in/bitstream/123456789/71903/1/Unit-6.pdf c
3) http://206.221.182.74/~anucde170/SMYearNew/DSW24.pdf
4) http://206.221.182.74/~anucde170/SMYearNew/DSW24.pdf
5) https://www.youtube.com/watch?v=09KXRrhyaIs
6) https://www.youtube.com/watch?v=gTEdk9XBo0Q
7) https://www.youtube.com/watch?v=WQys5edSZNY

8) https://www.youtube.com/watch?v=q1fsysGv_hM

Pedagogy

Lectures, Audios / Videos followed by discussion, PPT, Peer Learning and Student-led seminars.

Course Designer: Ms.P.MEENAKSHI.

| Semester I | | | | Marks:100 |
|---|---|---|---|---|
| COURSE CODE | COURSE TITLE | CATEGORY | Hours /Week | CREDITS |
| 25UGVE | UGC JEEVAN KAUSHAL - UNIVERSAL HUMAN VALUES | ABILITY ENHANCEMENT COMPULSORY COURSE-I (AECC) | 2 | 2 |

**Course Objectives**

1. To enable the learners to learn the values of love and compassion.

2. To foster the values of righteousness and service among the learners.

3. To enhance the morale of the learners by inculcating the values renunciation and peace.

4. To inspire the learners to practice the basic human values so as to make them become responsible citizens of the Nation.

**Course Outcomes and Cognitive Level Mapping**

**On the successful completion of this course, the students will able to**

| CO Number | CO Statement | Cognitive Level |
|---|---|---|
| CO1 | Define, Recall, explain, demonstrate and outline, the values of Love, Compassion, Truth, Non-Violence, Ahimsa, Righteousness and Service, Renunciation (sacrifice) & Peace. | K1, K2 |
| CO2 | Identify and apply the values of Love, Compassion, Truth, NonViolence, Ahimsa, Righteousness and Service, Renunciation (sacrifice) & Peace. | K3 |
| CO3 | Analyse, categorize, compare, list, the values of Love, Compassion, Truth, Non-Violence, Ahimsa, Righteousness and Service, Renunciation (sacrifice) & Peace. | K4 |
| CO4 | Explain the values of Love, Compassion, Truth, Non-Violence, Ahimsa, Righteousness and Service, Renunciation (sacrifice) & Peace. | K5 |
| CO5 | Elaborate, Discuss the values of Love, Compassion, Truth, Non-Violence, Ahimsa, Righteousness and Service, Renunciation (sacrifice) & Peace. | K6 |

| UNIT | CONTENT | HOURS | COs | COGNITIVE LEVEL |
|---|---|---|---|---|
| I | **Love and Compassion Introduction:** what is love? Forms of love for self, parents family friend, spouse community, nation, humanity and other beings both for living and non-living | 7 | CO1 CO2 CO3 CO4 CO5 | K1, K2, K3, K4, K5, K6 |
| II | **Truth and Non - Violence Introduction:** what is truth? Universal truth, truth as value, truth as | 6 | CO1 CO2 | K1, K2, K3, K4, K5, K6 |

| | | | | |
|---|---|---|---|---|
| | fact (veracity. sincerity, honesty among others) Individuals who are remembered in history for practicing this value Narratives and anecdotes from history, literature including local folklore Introduction: what is non violence? Its need. Love, compassion, empathy sympathy for others as prerequisites for non violence Ahimsa as non - violence and non- killing. Individuals and organisations that are known for their commitment to non - violence Narratives and anecdotes about non - violence from history and literature including local Folklore | | CO3<br>CO4<br>CO5 | |
| III | **Righteousness and Service Introduction:** What are Righteousness and service? Righteousness and dharma, Righteousness and Propriety III Forms of service for self, parents, family, friend, spouse, community, nation, humanity and other beings - living and non -living persons in distress for disaster. Individuals who are remembered in history for practicing Righteousness and Service Narratives and anecdotes dealing with instances of Righteousness and Service from history, literature, including local Folklore | 6 | CO1<br>CO2<br>CO3<br>CO4<br>CO5 | K1, K2, K3, K4, K5, K6 |
| IV | **Renunciation (sacrifice) & Peace Introduction:** What is renunciation? Renunciation and sacrifice. Self- restraint and ways of overcoming greed. Renunciation with action as true renunciation. What is peace? It's need, relation with harmony and balance. Individuals who are recommended in history for practicing Renunciation and sacrifice. Individuals and organisations that are known for their commitment to peace. Narratives and anecdotes from history and literature including local folklore about individuals who are remembered for their renunciation and sacrifice. Narratives and anecdotes about peace from history and literature including local folklore practicing peace | 6 | CO1<br>CO2<br>CO3<br>CO4<br>CO5 | K1, K2, K3, K4, K5, K6 |
| V | **Practicing human values:** what will learners learn gain if they practice human values? What will learners lose if they Don't Practice human values? Sharing learner's individual and/ or group experience(s) Simulated situations Case studies; Human Values Vs Moral Values; Changing values in society | 5 | CO1<br>CO2<br>CO3<br>CO4<br>CO5 | K1, K2, K3, K4, K5, K6 |
| VI | **Self Study for Enrichment** Learners need to list ways of practising the values Love and Compassion, Truth and non - violence, Righteousness and Service, Renunciation (sacrifice) & Peace. Group Discussion needs to be conducted on strategies to promote human | - | CO1<br>CO2<br>CO3<br>CO4<br>CO5 | K1, K2, K3, K4, K5, K6 |

| | | | | |
|---|---|---|---|---|
| | values at various levels – family, community, society, nation and global | | | |

**Website References**

1. http://gurdjiefffourthway.org/pdf/LOVE%20AND%20COMPASSION.pdf
2. https://iosrjournals.org/iosr-jhss/papers/Vol18-issue4/H01846769.pdf
3. https://www.youtube.com/watch?v=JaxIp8dyBBQ
4. https://core.ac.uk/download/pdf/38646904.pdf
5. https://www.hartford.edu/unotes/_images/submitted_images/Renunciation%20as%2 0the%20Path%20to%20Happiness%20and%20Success_1603743763_file1.pdf

**Pedagogy**

Chalk & Talk, Seminar, PPT Presentation, Group Discussion, Blended Method, Flipped Classroom method, Case Presentation, video making, poster designing, preparation of Albumand story writing .

**Ability Enhancement Compulsory Course (AECC ) I : UGC Jeevan Kaushal - Assessment Rubrics for 100 Marks**

1. Designing Posters / video making / preparation of Album – 20 marks
2. Case study presentation / Narration of stories / Writing stories – 20 Marks
3. Writing essay based on the individual life experience following human values – personal, family and society level (minimum 10 pages) – 20 Marks
4. VIVA VOCE - 40 Marks

| S. No. | Rubrics for VIVA VOCE | MARKS |
|---|---|---|
| 1. | Theoretical Knowledge | 20 |
| 2. | Values Practiced | 10 |
| 3 | Attitude & Commitment | 10 |
| | Total | 40 |

There will be no End Semester Examination for this course. The subject teacher will make an assessment of the students' performance based on the above-mentioned components and an internal VIVA VOCE will be conducted by the subject teacher and marks will be awarded and submitted to COE in the prescribed format specified by the Controller of Examinations with the approval of the Head of the respective Departments.

**Course Designer**

Dr.G.Mettilda Buvaneswari

# ANNEXURE E

**CAUVERY COLLEGE FOR WOMEN (AUTONOMOUS)**
**Nationally Accredited (IV Cycle) with A+ Grade by NAAC**
**Annamalai Nagar, Tiruchirappalli**
**DEPARTMENT OF BUSNIESS ADMINISTRATION**

# MINUTES OF THE TWELTH MEETING OF THE BOS

**DATE:** **03.04.2025**

**VENUE:** **BBA DEPARTMENT**

**TIME:** **10.30 a.m.**

**Members Present:**

| | |
|---|---|
| 1) Dr. J. Tamilselvi | **Chairperson,** Professor & Head. |
| 2) Dr. S. ThamaraiSelvi | Member |
| 3) Dr. M. Neela | Member |
| 4) Dr. A. Sivaranjani | Member |
| 5) Dr. M. Gayathri | Member |
| 6) Mrs. P. Thangamani | Member |
| 7) Mrs. S. Yalini | Member |
| 8) Ms. A. Suganya | Member |
| 9) Ms. S. Nivethika | Student Representative |
| 10) Ms. D.T. Keerthana | Student Representative |

## ACTION TAKEN REPORT OF THE BOS HELD ON 15.10.2024

The BoS Meeting was held on 15.10.2024 at 01.30 p.m. The Chairman of the BoS read the minutes of the previous meeting and the following Resolutions were confirmed

- Ratification of the Credits and Course Code of CC - VII, and DSE - I of Semester V and CC – XI, CC – XII, CC-XIII, DSE – II and Project work of Semester VI for Business Administration for 2023-2024 batch and onwards and recommend to the Academic Council, Cauvery College for Women (Autonomous), Trichy

# MINUTES OF THE TWELTH MEETING OF THE BOS HELD ON 03.04.2025

**RESOLUTION NO.BOS/12/25/01**

Resolved to introduce the new courses AECC-IV and GEC-I in Semester III of Business Administration for 2024-2025 batch and onwards and recommend to the Academic Council, Cauvery College for Women (Autonomous), Trichy, with the following changes for

1. AECC - IV – Health and Wellness with 1 Credit is introduced with Course Code 24UGHW
2. GEC – I – Introduction to NCC is introduced with Course Code 24UNC3GEC1 as one of the Elective Course

**RESOLUTION NO.BOS/12/25/02**

Resolved to approve the new course of GEC – II in Semester IV of Business Administration for 2024-2025 batch and onwards and recommend to the Academic Council, Cauvery College for Women (Autonomous), Trichy, with the following changes for

1. GEC - II – Specialization in Army is introduced with Course Code 24UNC4GEC2 as one of the Elective Course

**RESOLUTION NO.BOS/12/25/03**

Resolved to approve the shifting and changes in the duration of Internship, Evaluation of Internship in Semester V of Business Administration for 2024-2025 batch and onwards and recommend to the Academic Council, Cauvery College for Women (Autonomous), Trichy, with the following changes for

1. The duration of the internship has been changed from 15 days to 30 days and it shifted from Semester III holidays to Semester IV holidays
2. Internship is Evaluated in Semester V with the Course Code 24UBA5INT and the Credits given is 2

**RESOLUTION NO.BOS/12/25/04**

Resolved to ratify the Hours, Credits and Course Code of CC – XI and CC – XII, and the position of CC – XIV and to ratify the Hours and Course Code of Project Work of Semester VI of Business Administration for 2024-2025 batch and onwards and recommend to the Academic Council, Cauvery College for Women (Autonomous), Trichy, with the following changes for

1. The Hours and Credits of CC – XI – Human Resource Management have been changed from as 5 Hours and 4credits to 6 Hours and 5 credits with Course Code 24UBA6CC11 and the syllabus also revised according to that,

   **Topics Included:**
   **Unit I:**
   **Human Resource Planning:** Features, Objectives and Types.
   **Unit II:**
   **Job Analysis:** Features, Objectives and Process. Objectives of Job Evaluation and Methods of Job Evaluation.
   **Unit III:**
   **Training:** Importance, Methods and Process.
   **Unit IV:**
   **Performance appraisal:** Objectives, Characteristics, Purposes and Process.

**Unit V:**

**Industrial relations:** Features, Objectives, Scope, Importance and Factors influencing Industrial Relations. **Discipline:** Types, Types of Disciplinary action, Red Hot Stove Rule and Causes of Indiscipline. **Grievances:** Features, Causes of Grievances, Objectives of Grievance Handling Procedure, Essential Pre-requisites of a Grievance Handling Procedure and Benefits of Grievance Handling Procedure.

2. The Hours and Credits of CC – XII – Financial Management have been changed from as 5 Hours and 4credits to 6 Hours and 5 credits with Course Code 24UBA6CC12 and the syllabus also revised according to that,

**Topics Included:**

**Unit I:**

**Financial Management:** Nature of Financial Management, Reasons, Kinds, Role and functions of Finance Manager

**Unit V:**

**Working Capital Management:** Objectives, Cash Management, Receivables Management and Inventory Management.

3. Position of CC – XIV – Cyber Security has been changed to CC – XIII
4. The hours for Project Work have been changed from 5 hours to 7 hours with Course Code 24UBA6PW.

The Chairman Dr. J. Tamilselvi, Professor and Head, proposed the Vote of Thanks and expressed her gratitude for the valuable suggestions given by the internal BoS members during the BoS meeting for the period 2024-2025 and thanked all the members of BOS.

**Chairman of the Board** **Dean of Arts**

**Cauvery College for Women (Autonomous), Tiruchirappalli -620 018**

**Department of Business Administration**

**12th Board of Studies Meeting Held on 03/04/2025**

1. **Introduction of new courses from the academic year 2024-2025 based on the Feedback collected from various Stakeholders**

The Chairman of the Board Dr. J. Tamilselvi, Professor and Head, proposed the introduction of the following New Course(s) in the curriculum of the Business Administration from the Academic Year 2024-2025.

| Name of the Programme | Name of the Course | Course Code | Year of Introduction |
|---|---|---|---|
| BBA | Health and Wellness | 24UGHW | 2025 |
| | Introduction to NCC | 24UNC3GEC1 | 2025 |
| | Specialization in Array | 24UNC4GEC2 | 2025 |

2. **Revision of syllabus of the existing courses from the academic year 2024 -2025**

The Chairman of the Board, Dr. J. Tamilselvi, Professor and Head, proposed the revision of syllabus for increasing hours of the following courses in the curriculum of the Business Administration from the Academic Year 2024 - 2025.

| Name of the Programme | Name of the Course | Course Code | Core/Elective | % of Content added or replaced |
|---|---|---|---|---|
| BBA | Human Resource Management | 24UBA6CC11 | Core | 30% |
| BBA | Financial Management | 24UBA6CC12 | Core | 30% |

**Chairman of the Board** **Dean of Arts**


GPS Map Camera
Tiruchirappalli, Tamil Nadu, India
Cauvery College for Women (AUTONOMOUS), annamalai nagar, Tiruchirappalli, Tamil Nadu 620018, India
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03/04/25 10:46 AM GMT +05:30
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# CAUVERY COLLEGE FOR WOMEN (AUTONOMOUS)

**Nationally Accredited (IV Cycle) with A+ Grade by NAAC**

**Annamalai Nagar, Tiruchirappalli**

## DEPARTMENT OF BUSINESS ADMINISTRATION

# BBA SYLLABUS

**2024 -2025 and Onwards**

# CAUVERY COLLEGE FOR WOMEN (AUTONOMOUS), TRICHY
# DEPARTMENT OF BUSINESS ADMINISTRATION

## VISION

Our vision is to provide academic excellence and developing self-reliant individuals to endowwith skilled man power.

## MISSION

- To promote academic excellence by adopting customized learner focused methodologies.
- To develop self-reliant and competent women by tapping and nurturing their potentialthrough curricular and extracurricular activities.
- To provide skilled Manpower by imparting in depth knowledge and keeping abreast withchanging trends in Business.

# PROGRAMME EDUCATIONAL OBJECTIVES (PEOs)

| PEOs | Statements |
|---|---|
| PEO1 | **LEARNING ENVIRONMENT**<br>To facilitate value-based holistic and comprehensive learning by integrating innovative learning practices to match the highest quality standards and train the students to be effective leaders in their chosen fields. |
| PEO2 | **ACADEMIC EXCELLENCE**<br>To provide a conducive environment to unleash their hidden talents and to nurture the spirit of critical thinking and encourage them to achieve their goal. |
| PEO3 | **EMPLOYABILITY**<br>To equip students with the required skills in order to adapt to the changing global scenario and gain access to versatile career opportunities in multidisciplinary domains. |
| PEO4 | **PROFESSIONAL ETHICS AND SOCIAL RESPONSIBILITY**<br>To develop a sense of social responsibility by formulating ethics and equity to transform students into committed professionals with a strong attitude towards the development of the nation. |
| PEO5 | **GREEN SUSTAINABILITY**<br>To understand the impact of professional solutions in societal and environmental contexts and demonstrate the knowledge for an overall sustainable development. |

# PROGRAMME OUTCOMES FOR B.COM., B.COM. CA, B.B.A. PROGRAMMES

| PO NO. | Programme Outcome<br>On completion of B.Com. /B.Com. CA / B.B.A.<br>Programme,The students will be able to |
|---|---|
| PO 1 | **PROGRAMME KNOWLEDGE AND ENVIORNMENT SUSTAINABILITY**<br>Acquire a strong foundation in the areas of Commerce, Management and Information Technology that needs to respond to the constantly changing Business and Legal environment. |
| PO 2 | **CRITICAL THINKING AND DECISION-MAKING SKILLS**<br>Analyse and develop solutions through various computational techniques for real time problems in all areas of Business Management specially Finance, Marketing, Human Resources and Operations. |
| PO 3 | **ENTREPRENEURSHIP SKILLS AND COMPETENCY DEVELOPMENT**<br>Apply the competencies and creativity required to undertake entrepreneurship as a desirable and feasible career option or be employed in various positions in industry, academia and Government. |
| PO 4 | **TEAM WORK AND PROFICIENCY DEVELOPMENT**<br>Imbibe professionalism to embrace new opportunities of emerging technologies, leadership and team work in a dynamic ethical business scenario. |
| PO 5 | **PROFESSIONAL SKILLS AND EMPLOYABILITY**<br>Internalize the learned concept of Business and Commerce that will enable them to become skilled professionals and to enhance the career prospects. |

## PROGRAMME SPECIFIC OUTCOMES FOR BUSINESS ADMINISTRATIONBBA

| PSO NO | Programme Specific Outcomes<br>Students of Business Administration will be able to | POs Addressed |
|---|---|---|
| PSO1 | Apply frameworks and tools to arrive at informed decisions in profession and practice, remarkable balance between business and social dimensions. | PO1, PO3 |
| PSO2 | Solid foundation to pursue professional careers and take up higher learning courses. | PO2, PO5 |
| PSO3 | Function effectively as a member, leader, individual or group in diverse environment. | PO4 |
| PSO4 | Fostering entrepreneurship by providing understanding of the fundamentals of creating and managing innovation, new business development and high-growth potential entities. | PO3 |
| PSO5 | Apply ethical principles and commitment towards professional ethics and responsibility. | PO4, PO5 |

# CAUVERY COLLEGE FOR WOMEN (AUTONOMOUS), TRICHY – 18
## DEPATMENT OF BUSINESS ADMINISTRATION
## BBA
## ARNING OUTCOME BASED CURRICULUM FRAMEWORK (CBCS - LOCF)
**(For the candidates admitted from the academic year 2024 – 2025 onwards)**

| Semester | Part | Course | Title | Subject Code | Hours | Credit | Exam Hours | Marks | | Total |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Internal | External | |
| I | I | Language Course - I (LC) | Pothutamil - I | 23ULT1 | 6 | 3 | 3 | 25 | 75 | 100 |
| | | | Hindi Literature & Grammar- I | 23ULH1 | | | | | | |
| | | | Poetry, Grammar and History of Sanskrit Literature | 23ULS1 | | | | | | |
| | | | Foundation Course: Paper I - French – I | 23ULF1 | | | | | | |
| | II | English Language Course - I (ELC) | General English – I | 23UE1 | 6 | 3 | 3 | 25 | 75 | 100 |
| | III | Core Course - I (CC) | Principles of Management | 23UBA1CC1 | 6 | 5 | 3 | 25 | 75 | 100 |
| | | Core Course - II (CC) | Financial Accounting | 24UBA1CC2 | 6 | 5 | 3 | 25 | 75 | 100 |
| | | Allied Course - I (AC) | Managerial Economics | 23UBA1AC1 | 4 | 3 | 3 | 25 | 75 | 100 |
| | IV | Ability Enhancement Compulsory Course-I (AECC) | Value Education | 23UGVE | 2 | 2 | - | 100 | - | 100 |
| | | **Total** | | | **30** | **21** | | | | **600** |
| II | I | Language Course – II (LC) | Pothutamil - II | 23ULT2 | 6 | 3 | 3 | 25 | 75 | 100 |
| | | | Hindi Literature &Grammar - II | 22ULH2 | | | | | | |
| | | | Prose Grammarand History of Sanskrit Literature | 23ULS2 | | | | | | |
| | | | Basic French – II | 22ULF2 | | | | | | |
| | II | English Language Course – II (ELC) | General English - II | 23UE2 | 6 | 3 | 3 | 25 | 75 | 100 |
| | III | Core Course - III (CC) | Elements of Marketing | 23UBA2CC3 | 6 | 5 | 3 | 25 | 75 | 100 |
| | | Core Course – IV (CC) | Business Statistics | 23UBA2CC4 | 5 | 5 | 3 | 25 | 75 | 100 |
| | | Allied Course - II (AC) | Business Environment | 23UBA2AC2 | 5 | 3 | 3 | 25 | 75 | 100 |
| | IV | Ability Enhancement Compulsory Course-II (AECC) | Environmental Studies | 22UGEVS | 2 | 2 | - | 100 | - | 100 |
| | V | Extra Credit Course | SWAYAM | | As per UGC Recommendation | | | | | |
| | | **Total** | | | **30** | **21** | | | | **600** |

**CAUVERY COLLEGE FOR WOMEN (AUTONOMOUS), TRICHY – 18**
**DEPATMENT OF BUSINESS ADMINISTRATION**
**BBA**
**LEARNING OUTCOME BASED CURRICULUM FRAMEWORK (CBCS - LOCF)**
**(For the candidates admitted from the academic year 2024 – 2025 onwards)**

| Semester | Part | Course | Title | Course Code | Hours | Credit | Exam Hours | Marks | | Total |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Internal | External | |
| III | I | Language Course- III (LC) | Podhutamil - III | 23ULT3 | 6 | 3 | 3 | 25 | 75 | 100 |
| | | | Hindi Literature & Grammar – III | 22ULH3 | | | | | | |
| | | | Drama, Grammar and Historyof Sanskrit Literature | 23ULS3 | | | | | | |
| | | | Intermediate French – I | 22ULF3 | | | | | | |
| | II | English Language Course III (ELC) | Learning Grammar Through Literature - I | 23UE3 | 6 | 3 | 3 | 25 | 75 | 100 |
| | III | Core Course – V (CC) | Organizational Behaviour | 23UBA3CC5 | 5 | 5 | 3 | 25 | 75 | 100 |
| | | Core Practical - I (CP) | Computer Applications Package for Managers - MS-Office (P) | 22UBA3CC1P | 5 | 5 | 3 | 40 | 60 | 100 |
| | | Allied Course – III (AC) | Business Law | 22UBA3AC3 | 4 | 3 | 3 | 25 | 75 | 100 |
| | IV | Ability Enhancement Compulsory Course –III (AECC) | Innovation and Entrepreneurship | 22UGIE | 2 | 1 | - | 100 | - | 100 |
| | | Ability Enhancement Compulsory Course-IV (AECC) | Health and Wellness | 24UGHW | 2* | 1 | | 100 | | 100 |
| | | Generic Elective Course –I (GEC) | Stock Exchange Practices | 22UBA3GEC1 | 2 | 2 | 3 | 25 | 75 | 100 |
| | | | Introduction to NCC@ | 24UNC3GEC1 | | | | | | |
| | | | Basic Tamil - I | 22ULC3BT1 | | | | | | |
| | | | Special Tamil - I | 22ULC3ST1 | | | | | | |
| | V | Extra Credit Course | SWAYAM | | As per UGC Recommendation | | | | | |
| | | **Total** | | | **30** | **23** | | | | **800** |

**CAUVERY COLLEGE FOR WOMEN (AUTONOMOUS), TRICHY – 18**
**DEPATMENT OF BUSINESS ADMINISTRATION**
**BBA**
**LEARNING OUTCOME BASED CURRICULUM FRAMEWORK (CBCS - LOCF)**
**(For the candidates admitted from the academic year 2024 – 2025 onwards)**

| Semester | Part | Course | Title | Course Code | Hours | Credit | Exam Hours | Marks | | Total |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Internal | Internal | |
| IV | I | Language Course - IV (LC) | Podhutamil - IV | 23ULT4 | 6 | 3 | 3 | 25 | 75 | 100 |
| | | | Hindi Literature & Functional Hindi | 22ULH4 | | | | | | |
| | | | Alankara, Didactic and Modern Literatures and Translation | 23ULS4 | | | | | | |
| | | | Intermediate French – II | 22ULF4 | | | | | | |
| | II | English Language Course-IV (ELC) | Learning Grammar Through Literature - II | 23UE4 | 6 | 3 | 3 | 25 | 75 | 100 |
| | III | Core Course - VI (CC) | Cost Accounting | 22UBA4CC6 | 5 | 5 | 3 | 25 | 75 | 100 |
| | | Core Practical - II (CP) | Computer ApplicationsPackage for Managers -Tally (P) | 22UBA4CC2P | 5 | 5 | 3 | 40 | 60 | 100 |
| | | Allied Course - IV (AC) | Company Law | 22UBA4AC4 | 4 | 3 | 3 | 25 | 75 | 100 |
| | IV | Generic Elective Course– (GE) II | Export Management | 22UBA4GEC2 | 2 | 2 | 3 | 25 | 75 | 100 |
| | | | Specialization in Army@ | 24UNC4GEC2 | | | | | | |
| | | | Basic Tamil - II | 22ULC4BT2 | | | | | | |
| | | | Special Tamil -II | 22ULC4ST2 | | | | | | |
| | | Skill Enhancement Course – I (SEC) | Stress Management | 22UBA4SEC1 | 2 | 2 | 3 | 25 | 75 | 100 |
| | V | Extra Credit Course | SWAYAM | | As per UGC Recommendation | | | | | |
| | | **Total** | | | **30** | **23** | | | | **700** |

**30 Days INTERNSHIP during Semester Holidays**

**CAUVERY COLLEGE FOR WOMEN (AUTONOMOUS), TRICHY – 18**
**DEPATMENT OF BUSINESS ADMINISTRATION**
**BBA**
**LEARNING OUTCOME BASED CURRICULUM FRAMEWORK (CBCS - LOCF)**
**(For the candidates admitted from the academic year 2024 – 2025 onwards)**

| Semester | Part | Course | Title | Course Code | Hours | Credit | Exam Hours | Marks | | Total |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Internal | External | |
| V | III | Core Course - VII (CC) | Entrepreneurial Development | 23UBA5CC7 | 6 | 5 | 3 | 25 | 75 | 100 |
| | | Core Course – VIII (CC) | Research methods in Management | 22UBA5CC8 | 5 | 5 | 3 | 25 | 75 | 100 |
| | | Core Course - IX (CC) | Management Accounting | 22UBA5CC9 | 5 | 5 | 3 | 25 | 75 | 100 |
| | | Core Course - X (CC) | Digital Marketing | 22UBA5CC10 | 5 | 5 | 3 | 25 | 75 | 100 |
| | | Internship | | 24UBA5INT | - | 2 | - | - | - | 100 |
| | | Discipline Specific Elective – I (DSE) | Basics of Income Tax | 23UBA5DSE1A | 5 | 3 | 3 | 25 | 75 | 100 |
| | | | Managerial Communication | 23UBA5DSE1B | | | | | | |
| | | | Retail Management | 23UBA5DSE1C | | | | | | |
| | IV | Ability Enhancement Compulsory Course-V(AECC) | UGC Jeevan Kaushal Professional Skills | 22UGPS | 2 | 2 | - | 100 | - | 100 |
| | | Skill Enhancement Course – II (SEC) | Statistical Package for Managers – SPSS (P) | 22UBA5SEC2P | 2 | 2 | 3 | 40 | 60 | 100 |
| | | **Total** | | | **30** | **29** | | | | **800** |
| VI | III | Core Course - XI (CC) | Human Resource Management | 24UBA6CC11 | 6 | 5 | 3 | 25 | 75 | 100 |
| | | Core Course - XII (CC) | Financial Management | 24UBA6CC12 | 6 | 5 | 3 | 25 | 75 | 100 |
| | | Core Course - XIII (CC) | Cyber Security | 22UGCS | 5 | 4 | 3 | 25 | 75 | 100 |
| | | Discipline Specific Elective – II (DSE) | Business Analytics | 23UBA6DSE2A | 5 | 3 | 3 | 25 | 75 | 100 |
| | | | Global Business Management | 23UBA6DSE2B | | | | | | |
| | | | Business Ethics | 23UBA6DSE2C | | | | | | |
| | | Project | Project work | 24UBA6PW | 7 | 4 | - | - | - | 100 |
| | V | Ability Enhancement Compulsory Course- VI (AECC) | Gender Studies | 22UGGS | 1 | 1 | - | 100 | - | 100 |
| | | | Extension Activities | 22UGEA | 0 | 1 | 0 | -- | -- | -- |
| | | | **Total** | | **30** | **23** | | | | **600** |
| | | | **Grand Total** | | **180** | **140** | | | | **4100** |

# BBA

## LEARNING OUTCOME BASED CURRICULUM FRAMEWORK (CBCS - LOCF)
**(For the Candidates admitted from the Academic year 2024-2025 and onwards)**

## Curriculum Structure

## Courses & Credits for BBA Programmes

| Part | Course | No of Courses | Hrs/ Course | Credits | Total |
|---|---|---|---|---|---|
| I | Tamil/ Other Language | 4 | 6 | 4*3=12 | 12 |
| II | English | 4 | 6 | 4*312 | 12 |
| III | Core (Theory & Practical)<br>Cyber Security | 14<br>1 | 5/6<br>5 | 14*5=70<br>1*4=4 | 98 |
| | Project Work | 1 | 7 | 4 | |
| | Internship | 1 | - | 2 | |
| | First Allied | 2 | 4/5 | 2*3=6 | |
| | Second Allied | 2 | 4 | 2*3=6 | |
| | DSE | 2 | 5 | 2*3=6 | |
| IV | GEC | 2 | 2 | 2*2=4 | 17 |
| | SEC | 2 | 2 | 2*2=4 | |
| | AECC-I Universal Human Values | 1 | 2 | 2 | |
| | AECC-II-Environmental Studies | 1 | 2 | 2 | |
| | AECC-III-Innovation and Entrepreneurship | 1 | 2 | 1 | |
| | AECC-IV-Health and Wellness | 1 | - | 1 | |
| | AECC-V-Professional Skills | 1 | 2 | 2 | |
| | AECC-V Gender Studies | 1 | 1 | 1 | |
| V | Extension Activities | -- | - | 1 | 01 |
| | | **41** | | 140 | **140** |

## CORE COURSE XI (CC) - HUMAN RESOURCE MANAGEMENT

**2024 – 2025 Batch Onwards**

| Semester VI | Internal Marks: 25 | | | External Marks: 75 |
|---|---|---|---|---|
| **COURSE CODE** | **COURSE TITLE** | **CATEGORY** | **Hrs./Week** | **CREDITS** |
| **24UBA6CC11** | **HUMAN RESOURCE MANAGEMENT** | **CORE** | **6** | **5** |

**Course Objectives:**

- To gain knowledge on the basic concepts of Human Resource Management.
- To acquire the skills for the recent working environment.

**Pre-Requisites:** Basic Knowledge in Human Resource Management.

**Course Outcomes:**

Course Outcomes and Cognitive Level Mapping

| CO Number | CO Statement<br>On the successful completion of the course, students will be able to | Knowledge Level |
|---|---|---|
| **CO1** | Explain the concepts of Human Resource Management and their functions. | **K1** |
| **CO2** | Formulate manpower planning and identify the sources of Recruitment, Selection and Induction. | **K2** |
| **CO3** | Assess Training methods and Executive Development and evaluate the performance appraisal methods. | **K2** |
| **CO4** | Utilize the grievance redressal mechanism and analyze Disciplinary Procedure. | **K3** |
| **CO5** | Identify the industrial outcomes, and apply in realistic Scenario. | **K3** |

MAPPING OF CO WITH PO AND PSO

| COs | PSO1 | PSO2 | PSO3 | PSO4 | PSO5 | PO1 | PO2 | PO3 | PO4 | PO5 |
|---|---|---|---|---|---|---|---|---|---|---|
| CO1 | 3 | 3 | 3 | 3 | 2 | 3 | 2 | 3 | 3 | 2 |
| CO2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 2 | 3 |
| CO3 | 3 | 3 | 3 | 3 | 2 | 3 | 3 | 3 | 3 | 3 |
| CO4 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 2 |
| CO5 | 3 | 3 | 3 | 3 | 3 | 3 | 2 | 3 | 3 | 2 |

"1"-Slight(Low) Correlation-"2"- Moderate (Medium) Correlation-
"3"- Substantial (High) Correlation –"-" indicates there is no correlation.

**SYLLABUS**

| UNIT | CONTENT | HOURS | COs | COGNITIVE LEVELS |
|---|---|---|---|---|
| I | Meaning and Definition of Human Resource Management - Nature and Scope of Human Resource Management – Importance - Characteristics - Objectives – Principles - Functions of Human Resource Management - Human Resource Planning – Concepts, Features, Objectives and Types. | 15 | CO1<br>CO2<br>CO3<br>CO4<br>CO5 | K1<br>K2<br>K3 |
| II | Job Analysis: Features, Objectives and Process – Meaning of Job Description – Contents of Job Description, Meaning of Job Specification – Contents of Job Specification - Job evaluation – Objectives of Job Evaluation – Methods of Job Evaluation - Job enrichment: Advantages and Disadvantages - Job enlargement: Advantages and Disadvantages – Meaning and Definition of Recruitment – Objectives - Sources of Recruitment - Meaning and Definition of Selection - Methods of Selection – Types of Employment tests and Types of Interviews – Difference between Recruitment and Selection - Induction – Steps - Objectives. | 16 | CO1<br>CO2<br>CO3<br>CO4<br>CO5 | K1<br>K2<br>K3 |
| III | Meaning and Definition of Training - Needs – Importance - Methods - Process - Executive development – Objectives - Methods – Process - Difference between Training and Development - Models for evaluation of training - Kirkpatrick model of evaluation – CIRO model - Cost Benefit Analysis training. | 14 | CO1<br>CO2<br>CO3<br>CO4<br>CO5 | K1<br>K2<br>K3 |
| IV | Performance appraisal – Objectives – Characteristics – Purposes - Process- Methods – Transfer – Types of Transfer – Promotion – Objectives - Types of Promotion – Criteria of Promotion – Difference between Transfer and Promotion - Remuneration - Components of remuneration – Incentives – Features – Types – Benefits - Recent trends in HRM: Green HRM - Components – Benefits - and Virtual HRM Practices – Features – Benefits. | 15 | CO1<br>CO2<br>CO3<br>CO4<br>CO5 | K1<br>K2<br>K3 |
| V | Industrial relations – Features – Objectives – Scope - Importance - Factors influencing Industrial Relations - Separation - Types - Retirement Benefits: Gratuity, Provident Fund and Pension scheme. Discipline- Types – Types of Disciplinary action – Red Hot Stove Rule - Disciplinary procedure – Causes of Indiscipline - Grievances – Features – Causes of Grievances - Objectives of Grievance Handling Procedure - Essential Pre-requisites of a Grievance Handling Procedure – Benefits | 15 | CO1<br>CO2<br>CO3<br>CO4<br>CO5 | K1<br>K2<br>K3 |

| | | | | |
|---|---|---|---|---|
| | of Grievance Handling Procedure - Steps in Grievance Handling. | | | |
| VI | **SELF STUDY FOR ENRICHMENT:** (Not to be included for External examination) Differences between personnel management and Human Resource Management - Merits and Demerits of Employment Test – Bonus and its benefits. | | CO1<br>CO2<br>CO3<br>CO4<br>CO5 | K1<br>K2<br>K3 |

**Text Book:**


1. Shashi K. Gupta & Rosy Joshi (2018), *Human Resource Management* , 1st Edition, Kalayani Publisher.
2. Santosh Sharma & Shivi Saxena (2018), *Human Resource Management*, 1st Edition, Thakur Publisher.
3. Steve Brown (2018), *HR on Purpose: Developing Deliberate People,* 1st Edition, *Passion*, Society for Human Resource Management.
4. Bernard Marr (2018), Data-Driven *HR: How to Use Analytics and Metrics to Drive Performance*, 1st Edition, Kogan Page.


**Books for Reference**:


1. V S P Rao (2023), *Human Resource Management: Text & Cases*, 3rd Edition, Excel Books.
2. K. Ashwathappa (2023), *Human Resource Management- Text and cases*, 10th Edition, McGraw Hill Education India.
3. Garry Deseler(2020), *Human Resource Management*, 16th Edition, Pearson.
4. L M Prasad (2017), *Human Resource Management*, 4th Edition, Sultan Chand and Sons.


**Web Resources:**

1. https://mrcet.com/downloads/MBA/digitalnotes/Human%20Resource%20Management.pdf
2. http://kamarajcollege.ac.in/Department/BBA/III%20Year/e003%20Core%2019%20-%20Human%20Resource%20Management%20-%20VI%20Sem.pdf
3. https://backup.pondiuni.edu.in/sites/default/files/HR%20Management-230113.pdf
4. https://www.studocu.com/row/document/jagannath-university/business-communication/hrm-notes-bba/4305835

**Pedagogy:** Seminar, Quiz, Assignment, Case Study, Group Discussion.

**Course Designer: Dr.J.TAMILSELVI, Professor and Head.**

**CORE COURSE XII (CC) FINANCIAL MANAGEMENT**
**2024 – 2025 Batch Onwards**

| Semester VI | Internal Marks 25 | External Marks 75 | | |
|---|---|---|---|---|
| **COURSE CODE** | **COURSE TITLE** | **CATEGORY** | **Hrs. / Week** | **CREDITS** |
| **24UBA6CC12** | **FINANCIAL MANAGEMENT** | **CORE** | **6** | **5** |

**Course Objectives:**

- To cultivate a knowledge on the finance functions.
- To acquaint students with the techniques of financial management and their applications for business decision making.

**Pre-Requisite:** Basic knowledge required in Finance and Accounting concepts.

**Course Outcomes**

Course Outcomes and Cognitive Level Mapping

| CO Number | CO Statement | Knowledge Level |
|---|---|---|
| **CO1** | Define the basic concepts and objectives Financial Management. | **K1** |
| **CO2** | Demonstrate, Explain and Interpret Finance decision | **K2** |
| **CO3** | Applying acquired knowledge and Make use of the techniques. | **K3** |
| **CO4** | Analyse and Examine the Methods of Financial Management | **K4** |
| **CO5** | Invent the Analytical skills which would facilitate them to take finance decision | **K3, K4** |

**MAPPING OF CO WITH PO AND PSO**

| COs | PSO1 | PSO2 | PSO3 | PSO4 | PSO5 | PO1 | PO2 | PO3 | PO4 | PO5 |
|---|---|---|---|---|---|---|---|---|---|---|
| CO1 | 3 | 3 | 3 | 3 | 2 | 3 | 3 | 3 | 3 | 2 |
| CO2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 2 | 3 | 3 |
| CO3 | 3 | 3 | 3 | 3 | 3 | 2 | 3 | 3 | 3 | 3 |
| CO4 | 3 | 3 | 3 | 3 | 2 | 3 | 3 | 3 | 3 | 2 |
| CO5 | 3 | 3 | 3 | 3 | 3 | 2 | 3 | 3 | 3 | 3 |

"1" – Slight (Low) Correlation – "2" – Moderate (Medium) Correlation –
"3" – Substantial (High) Correlation – "-" indicates there is no correlation.

**SYLLABUS**

| UNIT | CONTENT | HOURS | COs | COGNITIVE LEVELS |
|---|---|---|---|---|
| I | Financial Management - Meaning and Objectives of financial management –Profit Maximization - Wealth Maximization - Nature of Financial Management - Scope of Financial Management – Concept of time value of money – Reasons – Financial decisions – Kinds – Role and functions of Finance Manager | 15 | CO1<br>CO2<br>CO3<br>CO4<br>CO5 | K1<br>K2<br>K3<br>K4 |
| II | Capital Structure – Meaning – Factors determining Capital Structure – Capital Structure Theories – Net Income Approach – Net Operating Approach – MM Approach – Traditional Approach – Leverages – Operating Leverage, Financial Leverage and Combined Leverage. | 15 | CO1<br>CO2<br>CO3<br>CO4<br>CO5 | K1<br>K2<br>K3<br>K4 |
| III | Cost of Capital – Sources of Capital for a company – Classification of Cost of Capital – Cost of Equity – Cost of Preference – Cost of Debt - Cost of Retained Earnings – Weighted Average Cost of Capital. | 15 | CO1<br>CO2<br>CO3<br>CO4<br>CO5 | K1<br>K2<br>K3<br>K4 |
| IV | Capital Budgeting – Importance – Factors affecting capital investment decision - Process – Project Appraisal by using Traditional Methods and Modern Methods – Pay Back Method – Net Present Value Method – Average Rate of Return Method – Internal Rate of Return Method - Profitability Index | 15 | CO1<br>CO2<br>CO3<br>CO4<br>CO5 | K1<br>K2<br>K3<br>K4 |
| V | Dividend Decisions – Meaning – Types of Dividend Policies – Factors influencing Dividend Policy – Forms of Dividend – Concepts on Relevance and Irrelevance Theories of Dividend. Working Capital Management – Concepts, Objectives, Significance and types, determinants and Estimating Working Capital requirements. Cash Management – Receivables Management – Inventory Management | 15 | CO1<br>CO2<br>CO3<br>CO4<br>CO5 | K1<br>K2<br>K3<br>K4 |
| VI | **SELF STUDY FOR ENRICHMENT:**<br>(Not to be included for External examination)<br>Importance of Financial Management - Methods of financial Management - Importance of cost of Capital - Capital structure and financial structure - Pattern of capital structure - Principles governing financial planning | | CO1<br>CO2<br>CO3<br>CO4<br>CO5 | K1<br>K2<br>K3<br>K4 |

**Distribution of Marks: Theory 60% Problems 40%**

**Text Book:**

1. Dr. Ramachandran R & Dr. Srinivasan R, (2019), *Financial Management*, Sriram Publications

**Books for Reference:**

1. Pandey I.M, (2016), *Financial Management,* Vikas Publishing House Ltd
2. Maheswari S.N, (2019), *Elements of Financial Management*, Sultan Chand and Sons, New Delhi
3. Khan M Y & Jain P K, (2017), *Financial Management*, McGraw Hill Education
4. Prasanna Chandra, (2017), *Financial Management,* Tata McGraw Hill

**Web Resources:**

1. https://dducollegedu.ac.in/Datafiles/cms/ecourse%20content/Dividend%20Policy-%20BMS.pdf
2. https://www.deskera.com/blog/capitalbudgeting/#:~:text=The%20process%20of%20capital%20budgeting,to%20carry%20out%20capital%20budgeting.
3. https://www.investopedia.com/terms/c/costofcapital.asp#:~:text=Cost%20of%20capital%20represents%20the,preferred%20or%20existing%20capital%20structure.

**Pedagogy:** Lecture, Assignments and Quiz

**Course Designer: DR. M. GAYATHRI, Associate Professor.**

# ANNEXURE F

**CAUVERY COLLEGE FOR WOMEN (AUTONOMOUS)**

**Nationally Accredited (IV Cycle) with A+ Grade by NAAC**
**Annamalai Nagar, Tiruchirappalli -18**

**PG & RESEARCH DEPARTMENT OF COMMERCE**

**Agenda for the Twelfth Meeting of BOS**

**DATE :** **26.03.2025**

**VENUE :** **Department of Commerce**

**TIME :** **10:00 a.m.**

**The Agenda for the meeting is as follows:**

**ITEM NO: BOS/12/25/01**

To consider and to approve the new courses AECC - IV- **Health and Wellness** and GEC-I - **Introduction to NCC** for NCC cadets in Semester III of B.Com. for 2024-2025 batch and onwards and recommend to the Academic Council, Cauvery College for Women (Autonomous), Trichy.

**ITEM NO: BOS/12/25/02**

To approve the new course of GEC-II - **Specialization in Army** for NCC cadets in Semester IV of B.Com. for 2024-2025 batch and onwards and recommend to the Academic Council, Cauvery College for Women (Autonomous), Trichy.

**ITEM NO: BOS/12/25/03**

To consider and approve the shifting and changes in the duration of **Internship**, Evaluation of Internship in Semester V of B.Com. for 2024-2025 batch and onwards and recommend to the Academic Council, Cauvery College for Women (Autonomous), Trichy.

**ITEM NO: BOS/12/25/04**

To ratify the Hours, Credits and Course Code of CC – XII and CC – XIII, and the position of CC – XIV and CC – XV and to ratify the Hours and Course Code of Project Work of Semester VI of B.Com. for 2024-2025 batch and onwards and recommend to the Academic Council, Cauvery College for Women (Autonomous), Trichy.

**ITEM NO: BOS/12/25/05**

To consider and to approve the new courses AECC - IV- **Health and Wellness** and GEC-I - **Introduction to NCC** for NCC cadets in Semester III of B.Com.CA for 2024-2025 batch and onwards and recommend to the Academic Council, Cauvery College for Women (Autonomous), Trichy.

**ITEM NO: BOS/12/25/06**

To approve the new course of GEC-II - **Specialization in Army** for NCC cadets in Semester IV of B.Com.CA for 2024-2025 batch and onwards and recommend to the Academic Council, Cauvery College for Women (Autonomous), Trichy.

**ITEM NO: BOS/12/25/07**

To consider and approve the shifting and changes in the duration of **Internship**, Evaluation of Internship in Semester V of B.Com.CA for 2024-2025 batch and onwards and recommend to the Academic Council, Cauvery College for Women (Autonomous), Trichy.

**ITEM NO: BOS/12/25/08**

To ratify the Hours, Credits and Course Code of CC – XI and CC – XII, and the position of CC – XIV and to ratify the Hours and Course Code of Project Work of Semester VI of B.Com.CA for 2024-2025 batch and onwards and recommend to the Academic Council, Cauvery College for Women (Autonomous), Trichy

**ITEM NO: BOS/12/25/09**

Any other matter with the permission of the chair.

**CAUVERY COLLEGE FOR WOMEN (AUTONOMOUS)**
**Nationally Accredited (IV Cycle) with A+ Grade by NAAC**
**Annamalai Nagar, Tiruchirappalli -18.**

**PG & RESEARCH DEPARTMENT OF COMMERCE**
**MINUTES OF THE TWELFTH MEETING OF THE BOARD OF STUDIES**

**DATE: 26.03.2025**
**VENUE: Department of Commerce**
**TIME: 10:00 a.m.**
**Members Present:**

| | |
|---|---|
| 1. Dr. N. Savithri | **Chairperson**, Professor & Head |
| 2. Ms. N. Aruna | Member |
| 3. Dr. S. Shameem | Member |
| 4. Dr. P. Kavitha | Member |
| 5. Dr. D. Ramya | Member |
| 6. Dr. C. Subha | Member |
| 7. Dr. S. Jayalakshmi | Member |
| 8. Dr. D. Sarala | Member |
| 9. Ms. Shilpa A. Talreja | Member |
| 10. Dr. P. Banu | Member |
| 11. Dr. J. Praba | Member |
| 12. Dr. J. Lalithambigai | Member |
| 13. Dr. B. Lavanya | Member |
| 14. Dr. S. J. Sureya | Member |
| 15. Dr. G. Kanagavalli | Member |
| 16. Ms. S. Praveena | Member |
| 17. Dr. R. Abirami | Member |
| 18. Ms. R. Sivamathi | Student Representative |
| 19. Ms. A. Yazhini | Student Representative |

**The leave of absence was granted to**

- Dr. S.Sudha - Member

## ACTION TAKEN REPORT OF THE BOS HELD ON 15.10.2024

The BoS Meeting was held on15.10.2024 at 11.00 a.m. The Chairman of the BoS readthe minutes of the meeting and the following Resolutions were confirmed.

- Ratification of the Credits and Course Code of CC - VIII, and DSE - I of Semester V and CC – XII, CC-XIII, CC-IV, DSE – II and Project work of Semester VI for B.Com. for 2023-2024 batch and onwards and recommend to the Academic Council, Cauvery College for Women (Autonomous), Trichy.
- Ratification of the Credits and Course Code of CC - VIII, and DSE - I of Semester V and CC – XI, CC-XII, CC-III, DSE – II and Project work of Semester VI for B.Com.CA for 2023-2024 batch and onwards and recommend to the Academic Council, Cauvery College for Women (Autonomous), Trichy.

## MINUTES OF THE TWELFTH MEETING OF THE BOS HELD ON 03.04.2025

**RESOLUTION NO. BOS/12/25/01**

Resolved to introduce the new courses **AECC-IV** and **GEC-I** in Semester III of B.Com. for 2024-2025 batch and onwards and recommend to the Academic Council, Cauvery College for Women (Autonomous), Trichy, with the following changes for

1. AECC - IV – Health and Wellness with Course Code 24UGHW
2. GEC – I – Introduction to NCC with Course Code 24UNC3GEC1 for NCC cadets

**RESOLUTION NO. BOS/12/25/02**

Resolved to approve the new course of GEC – II in Semester IV of B.Com. for 2024-2025 batch and onwards and recommend to the Academic Council, Cauvery College for Women (Autonomous), Trichy, with the following changes for

1. GEC - II – Specialization in Army is introduced with Course Code 24UNC4GEC2 for NCC cadets

**RESOLUTION NO. BOS/12/25/03**

Resolved to approve the shifting and changes in the duration of Internship, Evaluation of Internship in Semester V of B.Com. for 2024-2025 batch and onwards and recommend to the Academic Council, Cauvery College for Women (Autonomous), Trichy, with the following changes for

1. The duration of the internship has been changed from 15 days to 30 days and it shifted from Semester III to Semester IV holidays.
2. Internship is evaluated in Semester V with the Course Code 24UCO5INT and the Credits given is 2

**RESOLUTION NO. BOS/12/25/04**

Resolved to ratify the Hours, Credits and Course Code of CC – XII and CC – XIII, and the position of CC – XIV and CC – XV and to ratify the Hours and Course Code of Project Work of Semester VI of B.Com.for 2024-2025 batch and onwards and recommend to the Academic Council, Cauvery College for Women (Autonomous), Trichy, with the following changes for

1. The Hours and Credits of CC – XII –Direct Taxation have been changed from as 5 Hours and 4 credits to 6 Hours and 5 credits with Course Code 24UCO6CC12 and the syllabus also revised according to that,

**Topics Included:**
**Unit II:** Basis of Charges Sec 15
**Unit III:** Deemed owner of House Property
**Unit IV:** Treatment of Depreciation
**Unit V:** Set off and Carry forward of losses (Theory) – Deduction from Gross Total Income.

2. The Hours and Credits of CC – XIII –Management Accounting have been changed from as 5 Hours and 4 credits to 6 Hours and 5 credits with Course Code 24UCO6CC13 and the syllabus also revised according to that,

**Topics Included:**
**Unit I:** Issue of rights and bonus shares.
**Unit III:** Valuation of shares – Need and Methods - Average Profit Method, Super Profits Method Capitalization Method and Annuity Method.

3. Position of CC – XIV –Auditing has been changed as DSE-II and hours changed from 4 Hours to 5 Hours with Course Code 24UCO6DSE2A

**Topic Removed:**
**Unit I** - Auditing – Stages - Standards of Auditing
**Topics Included:**
**Unit V:** Audit Evidence-Introduction-Gathering Audit Evidence-Principles of Audit Evidence Criteria For Selection of Audit Evidence - Characteristics of Satisfactory Evidence - Classification of Evidence on the basis of Materiality-Process of Gathering Audit Evidence.

4. Position of CC – XV – Cyber Security has been changed to CC – XIV.

5. The hours for Project Work have been changed from 5 hours to 7 hours with Course Code 24UCO6PW.

**RESOLUTION NO.BOS/12/25/05**

Resolved to introduce the new courses **AECC-IV** and **GEC-I** in Semester III of B.Com.CA for 2024-2025 batch and onwards and recommend to the Academic Council, Cauvery College for Women (Autonomous), Trichy,with the following changes for

1. AECC - IV – Health and Wellness with Course Code 24UGHW
2. GEC – I – Introduction to NCC with Course Code 24UNC3GEC1 for NCC cadets

**RESOLUTION NO. BOS/12/25/06**

Resolved to approve the new course of GEC – II in Semester IV of B.Com.CA for 2024-2025 batch and onwards and recommend to the Academic Council, Cauvery College for Women (Autonomous), Trichy, with the following changes for

1. GEC - II – Specialization in Army is introduced with Course Code 24UNC4GEC2 for NCC cadets

**RESOLUTION NO.BOS/12/25/07**

Resolved to approve the shifting and changes in the duration of Internship, Evaluation of Internship in Semester V of B.Com.CA for 2024-2025 batch and onwards and recommend to the Academic Council, Cauvery College for Women (Autonomous), Trichy, with the following changes for

1. The duration of the internship has been changed from 15 days to 30 days and it shifted from Semester III holidays to Semester IV holidays
2. Internship is evaluated in Semester V with the Course Code 24UCC5INT and the Credits given is 2

**RESOLUTION NO. BOS/12/25/08**

Resolved to ratify the Hours, Credits and Course Code of CC – XI and CC – XII, and the position of CC – XIV and to ratify the Hours and Course Code of Project Work of Semester VI of B.Com.CA for 2024-2025 batch and onwards and recommend to the Academic Council, Cauvery College for Women (Autonomous), Trichy, with the following changes for

1. The Hours and Credits of CC – XI –Corporate Accounting have been changed from as 5 Hours and 4 credits to 6 Hours and 5 credits with Course Code 24UCC6CC11 and the syllabus also revised according to that,

**Topics Included:**

**Unit I:** Issue of rights and bonus shares.

**Unit III:** Valuation of goodwill and shares – Need and Methods - Average Profit Method, Super Profits Method – Capitalization Method and Annuity Method.

2. The Hours and Credits of CC – XII –Direct Taxation have been changed from as 5 Hours and 4 credits to 6 Hours and 5 credits with Course Code 24UCC6CC12 and the syllabus also revised according to that,

**Topics Included:**
**Unit II:** Basis of Charges Sec 15
**Unit III:** Deemed owner of House Property
**Unit IV:** Treatment of Depreciation
**Unit V:** Set off and Carry forward of losses (Theory) – Deduction from Gross Total Income.

3. Position of CC – XIV – Cyber Security has been changed to CC – XIII.

4. The hours for Project Work have been changed from 5 hours to 7 hours with Course Code 24UCC6PW.

The Chairman Dr.N.Savithri, Professor, Dean of Arts and Head, proposed the Vote of Thanks and expressed her gratitude for the valuable suggestions given by the internal BoS members during the BoS meeting for the period 2024-2025 and thanked all the members of BOS.

N.Savithri
HEAD
DEPARTMENT OF COMMERCE
CAUVERY COLLEGE FOR WOMEN (AUTONOMOUS)
TIRUCHIRAPPALLI - 18.

**(Dr. N. Savithri)**
**Chairman of the Board**

N Savithri
DEAN OF ARTS
CAUVERY COLLEGE FOR WOMEN
(AUTONOMOUS)
ANNAMALAI NAGAR
TIRUCHIRAPPALLI - 620 018
TAMILNADU

**(Dr.N.Savithri)**
**Dean of Arts**

**Cauvery College for Women (Autonomous), Tiruchirappalli - 620 018**
**PG & Research Department of Commerce**
**12th Board of Studies Meeting Held on 26.03.2025**

1. **Introduction of new courses from the academic year 2024-2025 based on the Feedback collected from various Stakeholders**

The Chairman of the Board Dr.N.Savithri, Professor, Dean of Arts and Head, proposed the introduction of the following New Course(s) in the curriculum of the B.Com. and B.Com CA from the Academic Year 2024-2025.

| Name of the Programme | Name of the Course | Course Code | Year of Introduction |
|---|---|---|---|
| B.Com. & B.Com.CA | Health and Wellness | 24UGHW | 2025 |
| | Introduction to NCC | 24UNC3GEC1 | 2025 |
| | Specialization in Army | 24UNC4GEC2 | 2025 |

2. **Revision of syllabus of the existing courses from the academic year 2024 -2025**

The Chairman of the Board, Dr.N.Savithri, Professor, Dean of Arts and Head, proposed the revision of syllabus for increasing hours of the following courses in the curriculum of the B.Com. and B.Com. CA from the Academic Year 2024 - 2025.

| Name of the Programme | Name of the Course | Course Code | Core/Elective | % of Content added or replaced |
|---|---|---|---|---|
| B.Com. | Direct Taxation | 24UCO6CC12 | Core | 25% |
| | Management Accounting | 24UCO6CC13 | Core | 25% |
| | Auditing | 24UCO6DSE2A | Elective | 25% |
| B.Com.CA | Corporate Accounting | 24UCC6CC11 | Core | 25% |
| | Direct Taxation | 24UCC6CC12 | Core | 25% |

N. Savithri
HEAD
DEPARTMENT OF COMMERCE
CAUVERY COLLEGE FOR WOMEN (AUTONOMOUS)
TIRUCHIRAPPALLI - 18.

**(Dr. N. Savithri)**
**Chairman of the Board**

N. Savithri
DEAN OF ARTS
CAUVERY COLLEGE FOR WOMEN
(AUTONOMOUS)
ANNAMALAI NAGAR
TIRUCHIRAPPALLI - 620 018
TAMILNADU

**(Dr.N.Savithri)**
**Dean of Arts**

# CAUVERY COLLEGE FOR WOMEN (AUTONOMOUS), TRICHY – 18
## PG & RESEARCH DEPARTMENT OF COMMERCE
### B.Com.– PROGRAMME STRUCTURE
### LEARNING OUTCOME BASED CURRICULUM FRAMEWORK (CBCS - LOCF)
### (For the candidates admitted from the academic year 2024 – 2025 onwards)

| Semester | Part | Course | Title | Subject Code | Hours | Credit | Exam Hours | Marks | | Total |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Internal | External | |
| I | I | Language Course - I (LC) | Pothutamil - I | 23ULT1 | 6 | 3 | 3 | 25 | 75 | 100 |
| | | | Hindi ka Samanya Gyan aur Nibandh | 23ULH1 | | | | | | |
| | | | Poetry, Grammer and History of Sanskrit Literature | 23ULS1 | | | | | | |
| | | | Foundation Course : Paper I – French - I | 23ULF1 | | | | | | |
| | II | English Language Course - I (ELC) | General English - I | 23UE1 | 6 | 3 | 3 | 25 | 75 | 100 |
| | III | Core Course - I (CC) | Financial Accounting - I | 23UCO1CC1 | 6 | 5 | 3 | 25 | 75 | 100 |
| | | Core Course - II (CC) | Principles of Management | 23UCO1CC2 | 6 | 5 | 3 | 25 | 75 | 100 |
| | | First Allied Course - I (AC) | Business Economics | 23UCO1AC1 | 4 | 3 | 3 | 25 | 75 | 100 |
| | IV | Ability Enhancement Compulsory Course-I (AECC) | UGC Jeevan Kaushal - Value Education | 23UGVE | 2 | 2 | - | 100 | - | 100 |
| | | **Total** | | | **30** | **21** | | | | **600** |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| II | I | Language Course - II (LC) | Pothutamil - II | 23ULT2 | 6 | 3 | 3 | 25 | 75 | 100 |
| | | | Hindi Literature & Grammar - II | 22ULH2 | | | | | | |
| | | | Prose, Grammar and History of Sanskrit literature | 23ULS2 | | | | | | |
| | | | Basic French -II | 22ULF2 | | | | | | |
| | II | English Language Course - II (ELC) | General English - II | 23UE2 | 6 | 3 | 3 | 25 | 75 | 100 |
| | III | Core Course - III (CC) | Financial Accounting - II | 23UCO2CC3 | 6 | 5 | 3 | 25 | 75 | 100 |
| | | Core Course - IV (CC) | Fundamentals of Marketing | 23UCO2CC4 | 5 | 5 | 3 | 25 | 75 | 100 |
| | | First Allied Course - II (AC) | Banking Theory Law and Practice | 22UCO2AC2 | 5 | 3 | 3 | 25 | 75 | 100 |
| | IV | Ability Enhancement Compulsory Course – II (AECC) | Environmental Studies | 22UGEVS | 2 | 2 | - | 100 | - | 100 |
| | Extra Credit Course | | SWAYAM Online Course | As per UGC Recommendations | | | | | | |
| | | **Total** | | | **30** | **21** | | | | **600** |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| III | I | Language Course - III (LC) | Pothutamil - III | **23ULT3** | 6 | 3 | 3 | 25 | 75 | 100 |
| | | | Hindi Literature & Grammar - III | **22ULH3** | | | | | | |
| | | | Drama, Grammar and History of Sanskrit literature | **23ULS3** | | | | | | |
| | | | Intermediate French - I | **22ULF3** | | | | | | |
| | II | English Language Course - III (ELC) | Learning Grammar through Literature - I | **23UE3** | 6 | 3 | 3 | 25 | 75 | 100 |
| | III | Core Course - V (CC) | Cost Accounting | **23UCO3CC5** | 5 | 5 | 3 | 25 | 75 | 100 |
| | | Core Course - VI (CC) | Business Correspondence and Reporting | **22UCO3CC6** | 5 | 5 | 3 | 25 | 75 | 100 |
| | | Second Allied Course – I (AC) | Business Law | **22UCO3AC3** | 4 | 3 | 3 | 25 | 75 | 100 |
| | IV | Ability Enhancement Compulsory Course – III (AECC) | Innovation and Entrepreneurship | **22UGIE** | 2 | 1 | - | 100 | - | 100 |
| | | Ability Enhancement Compulsory Course-IV (AECC) | Health and Wellness | 24UGHW | 2* | 1 | - | 100 | - | 100 |
| | | Generic Elective Course – I (GEC) | Elements of Insurance | **22UCO3GEC1** | 2 | 2 | 3 | 25 | 75 | 100 |
| | | | Introduction to NCC @ | **24UNC3GEC1** | | | | | | |
| | | | Basic Tamil - I | **22ULC3BT1** | | | | | | |
| | | | Special Tamil - I | **22ULC3ST1** | | | | | | |
| | Extra Credit Course | | Swayam Online Course | | As per UGC Recommendations | | | | | |
| | **Total** | | | | **30** | **23** | | | | **800** |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| IV | I | Language Course - IV (LC) | Pothutamil - IV | **23ULT4** | 6 | 3 | 3 | 25 | 75 | 100 |
| | | | Hindi Literature & Functional Hindi | **22ULH4** | | | | | | |
| | | | Alankara, Didactic and Modern Literatures and Transalation | **23ULS4** | | | | | | |
| | | | Intermediate French -II | **22ULF4** | | | | | | |
| | II | English Language Course-IV (ELC) | Learning Grammar through Literature - II | **23UE4** | 6 | 3 | 3 | 25 | 75 | 100 |
| | III | Core Course - VII (CC) | Business Statistics | **22UCO4CC7** | 5 | 5 | 3 | 25 | 75 | 100 |
| | | Core Practical - I (CP) | Accounting Package (P) | **22UCO4CC1P** | 5 | 5 | 3 | 40 | 60 | 100 |
| | | Second Allied Course – II (AC) | E-Commerce and Web Designing | **22UCO4AC4** | 4 | 3 | 3 | 25 | 75 | 100 |
| | IV | Generic Elective Course– II (GEC) | Advertisement Management | **22UCO4GEC2** | 2 | 2 | 3 | 25 | 75 | 100 |
| | | | Specialization in Army @ | **24UNC4GEC2** | | | | | | |
| | | | Basic Tamil - II | **22ULC4BT2** | | | | | | |
| | | | Special Tamil - II | **22ULC4ST2** | | | | | | |
| | | Skill Enhancement Course– I (SEC) | Introduction to MS-Office (P) | **22UCO4SEC1P** | 2 | 2 | 3 | 40 | 60 | 100 |
| | Extra Credit Course | | Swayam Online Course | | As per UGC Recommendations | | | | | |
| | | **Total** | | | **30** | **23** | | | | **700** |

***30 days INTERNSHIP during Semester Holidays**

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| V | III | Core Course – VIII (CC) | Corporate Accounting | **23UCO5CC8** | 6 | 5 | 3 | 25 | 75 | 100 |
| | | Core Course - IX (CC) | Financial Management | **22UCO5CC9** | 5 | 5 | 3 | 25 | 75 | 100 |
| | | Core Course - X (CC) | Entrepreneurship and Small Business Management | **22UCO5CC10** | 5 | 5 | 3 | 25 | 75 | 100 |
| | | Core Course – XI (CC) | Fundamentals of Research | **22UCO5CC11** | 5 | 5 | 3 | 25 | 75 | 100 |
| | | Internship | | **24UCO5INT** | - | 2 | - | - | - | 100 |
| | | Discipline Specific Elective – I (DSE) | A. Human Resource Management | **23UCO5DSE1A** | 5 | 3 | 3 | 25 | 75 | 100 |
| | | | B. Marketing Research | **23UCO5DSE1B** | | | | | | |
| | | | C. Industrial Relations and Labour Law | **23UCO5DSE1C** | | | | | | |
| | IV | Ability Enhancement Compulsory Course-**V** (AECC) | UGC Jeevan Kaushal - Professional Skills | **22UGPS** | 2 | 2 | - | 100 | - | 100 |
| | | Skill Enhancement Course– II (SEC) | Skills for Competitive Examination | **22UCO5SEC2** | 2 | 2 | 3 | - | 100 | 100 |
| | | Extra Credit Course | Swayam Online Course | As per UGC Recommendations | | | | | | |
| | | **Total** | | | **30** | **29** | | | | **800** |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| VI | III | Core Course - XII (CC) | Direct Taxation | **24UCO6CC12** | **6** | **5** | 3 | 25 | 75 | 100 |
| | | Core Course - XIII (CC) | Management Accounting | **24UCO6CC13** | **6** | **5** | 3 | 25 | 75 | 100 |
| | | Core Course - XIV (CC) | Cyber Security | **22UGCS** | 5 | 4 | 3 | 25 | 75 | 100 |
| | | Discipline Specific Elective– II (DSE) | A. Auditing | **24UCO6DSE2A** | 5 | 3 | 3 | 25 | 75 | 100 |
| | | | B. Retail Management | **23UCO6DSE2B** | | | | | | |
| | | | C. Organisational Dynamics | **23UCO6DSE2C** | | | | | | |
| | | Project | Project Work | **24UCO6PW** | 7 | 4 | - | - | 100 | 100 |
| | IV | Ability Enhancement Compulsory Course-VI (AECC) | Gender Studies | **22UGGS** | 1 | 1 | - | 100 | - | 100 |
| | V | Extension Activity | | **23UGEA** | - | 1 | - | - | - | - |
| | | **Total** | | | **30** | **23** | | | | **600** |
| **Grand Total** | | | | | **180** | **140** | | | | **4100** |

- **@ NCC is one of the choices in GEC. Only the NCC cadets are eligible to chooses this course. However, NCC Course is not a Compulsory Course for the NCC Cadets. If the Cadet has not studied Tamil in the school level, she has to take Basic Tamil Course.**
- *** Health and Wellness shall be outside instruction hours**

## Courses & Credits for B.Com.

| Part | Course | No of Courses | Hrs/ Course | Credits | Total |
|---|---|---|---|---|---|
| I | Tamil/OtherLanguage | 4 | 6 | 4*3=12 | 12 |
| II | English | 4 | 6 | 4*312 | 12 |
| III | Core(Theory Practical)<br>Cyber Security | 14<br>1 | 5/6<br>5 | 14*5=70<br>1*4=4 | 98 |
| | Project Work | 1 | 7 | 4 | |
| | Internship | 1 | - | 2 | |
| | First Allied | 2 | 3/4 | 2*3=6 | |
| | Second Allied | 2 | 3/4 | 2*3=6 | |
| | DSE | 2 | 5 | 2*3=6 | |
| IV | GEC | 2 | 2 | 2*2=4 | 17 |
| | SEC | 2 | 2 | 2*2=4 | |
| | AECC-I Value Education | 1 | 2 | 2 | |
| | AECC-II-Environmental Studies | 1 | 2 | 2 | |
| | AECC-III-Innovation and Entrepreneurship | 1 | 2 | 1 | |
| | AECC-IV-Health and Wellness | 1 | - | 1 | |
| | AECC-V-Professional Skills | 1 | 2 | 2 | |
| | AECC-VI Gender Studies | 1 | 1 | 1 | |
| V | Extension Activities | -- | - | 1 | 01 |
| | | **41** | | 140 | **140** |

# B.COM

# VI SEMESTER

# Course Structure and Syllabus

# CAUVERY COLLEGE FOR WOMEN (AUTONOMOUS), TRICHY – 18
## PG & RESEARCH DEPARTMENT OF COMMERCE
## B.Com – PROGRAMME STRUCTURE
### LEARNING OUTCOME BASED CURRICULUM FRAMEWORK (CBCS - LOCF)
### (For the candidates admitted from the academic year 2024 – 2025 onwards

| Semester | Part | Course | Title | Subject Code | Hours | Credit | Exam Hours | Marks | | Total |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Internal | External | |
| VI | III | Core Course - XII (CC) | Direct Taxation | 24UCO6CC12 | 6 | 5 | 3 | 25 | 75 | 100 |
| | | Core Course - XIII (CC) | Management Accounting | 24UCO6CC13 | 6 | 5 | 3 | 25 | 75 | 100 |
| | | Core Course - XIV (CC) | Cyber Security | 22UGCS | 5 | 4 | 3 | 25 | 75 | 100 |
| | | Discipline Specific Elective–II (DSE) | A. Auditing | 24UCO6DSE2A | 5 | 3 | 3 | 25 | 75 | 100 |
| | | | B. Retail Management | 23UCO6DSE2B | | | | | | |
| | | | C. Organisational Dynamics | 23UCO6DSE2C | | | | | | |
| | | Project | Project Work | 24UCO6PW | 7 | 4 | - | - | 100 | 100 |
| | IV | Ability Enhancement Compulsory Course-VI (AECC) | Gender Studies | 22UGGS | 1 | 1 | - | 100 | - | 100 |
| | V | Extension Activity | | 23UGEA | - | 1 | - | - | - | - |
| | **Total** | | | | **30** | **23** | | | | **600** |
| **Grand Total** | | | | | **180** | **140** | | | | **4100** |

| Semester VI | Internal Marks: 25 | | External Marks: 75 | |
|---|---|---|---|---|
| **COURSE CODE** | **COURSE TITLE** | **CATEGORY** | **Hrs / Week** | **Credits** |
| 24UCO6CC12 | DIRECT TAXATION | CORE | 6 | 5 |

**Course Objective**

- To help the students to understand and apply the basic concepts and provisions of Income Tax Act 1961.
- To apply various deduction and exemptions in the computation of total income of Assessee.
- To gain procedural knowledge about Income Tax law in force for the relevant assessment year.

**Course Outcome and Cognitive Level Mapping**

| CO Number | CO Statement<br>On the successful completion of the course, students will be able to | Cognitive Level |
|---|---|---|
| CO1 | Define the basic concepts of Income Tax, Residential Status of an Individual Assessee and Incidence of Tax. | K1 |
| CO2 | Explain the computation of Income from Salary, House Property, Business or Profession, Capital Gain and Income from Other Sources. | K2 |
| CO3 | Apply the exemption and deduction under various heads of income. | K3 |
| CO4 | Analyze the total tax liability of individual Assessee. | K4 |
| CO5 | Evaluate the legal obligations and requirements of e filing of the Income Tax | K5 |

**Mapping of CO with PO and PSO**

| COs/ PSOs | PSO1 | PSO2 | PSO3 | PSO4 | PSO5 | PO1 | PO2 | PO3 | PO4 | PO5 |
|---|---|---|---|---|---|---|---|---|---|---|
| CO1 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| CO2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| CO3 | 3 | 3 | 3 | 3 | 3 | 3 | 2 | 3 | 2 | 2 |
| CO4 | 3 | 3 | 2 | 3 | 3 | 2 | 3 | 2 | 2 | 2 |
| CO5 | 3 | 3 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |

"1" – Slight (Low) Correlation □ "2" – Moderate (Medium) Correlation
"3"–Substantial(High) Correlation"-"Indicates there is no correlation.

**Syllabus**

| UNIT | CONTENT | HOURS | CO'S | COGNITIVE LEVEL |
|---|---|---|---|---|
| I | History of Income Tax - Canons of Taxation – Assessee - Person – Income – Agricultural Income – Assessment Year – Previous Year – Capital and Revenue Receipts and Expenditure - Total Income – Residential status of Individual – Incidence of Tax – Income Exempted under section 10. | 18 | CO1, CO2,CO3, CO4,CO5 | K1, K2, K3,K4,K5 |
| II | Income from Salary – Features – Advance Salary - Arrear of Salary – Basis of Charges Section 15 - Allowances – Perquisites - Retirement Benefits –Deduction under section 16 – Deduction under section 80C | 18 | CO1, CO2,CO3, CO4,CO5 | K1, K2, K3,K4,K5 |
| III | Income from House Property – Exempted Income from House Property – Deemed owner of House Property - Determination of Gross Annual Value and Net Annual Value – Partly Let Out and Partly Self Occupied House - Sub-letting – Calculation of Interest on Borrowed Capital –Deduction under section 24. | 18 | CO1, CO2,CO3, CO4,CO5 | K1, K2, K3,K4,K5 |
| IV | Income from Business – Important terms – Income and Expenses Expressly Allowed and Disallowed – Treatment of Bad Debts Recovered, Under and Over valuation of Stock, Treatment of Depreciation. Income from Profession. | 18 | CO1, CO2,CO3, CO4,CO5 | K1, K2, K3,K4,K5 |
| V | Income from Capital Gain –Types of Capital Assets – Computation of Long Term and Short Term Capital Gain – Exemption under section 54. Income from Other Sources –Various Kinds of Securities -Deduction under section 57 – Set off and Carry forward of losses (Theory) – Deduction from Gross Total Income - Computation of Total Tax Liability – E - filing. | 18 | CO1, CO2,CO3, CO4,CO5 | K1, K2, K3,K4,K5 |
| VI | **Self-Study for Enrichment (Not to be included for External Examination)** Advance Payment of Tax - Tax Deducted at Source –Income Tax Authorities. | | CO1, CO2,CO3, CO4,CO5 | K1, K2, K3,K4,K5 |

**Distribution of Marks: Theory 20% & Problem 80%**

**Text Books**

1. Dr.T.Srinivasan (2025), *Income Tax Law and Practice,* Vijay Nicole Imprints Private Ltd , Chennai.
2. T.S.Reddy and Y.Hari Prasad Reddy (2025), *Income Tax Law and Practice,* Margham Publication.Chennai.
3. Dr.H.C.Mehrotra (2025), *Income Tax Law and Practice,* Shithya Bhavan Publication. Agra, Uttar Pradesh.

**Reference Books**

1. Dr. Vinod K.Singhania, Dr.Kapil Singhania (2025), Income Tax *Law and Practice,* Taxmann Publications, Chennai.
2. K.Rajavelu, (2025), Income Tax Law and Practice,SVP Publication.Chennai.
3. CA. Raj K Agrawal, (2025) Handbook on Income Tax, Bharat Law House, Delhi.

**Web Reference**

1. https://www.taxmann.com/post/blog/tax-concept
2. https://cleartax.in/paytax/TaxCalculator
3. https://tax2win.in/guide/house-property
4. https://www.icai.org/post.html?post_id=19576
5. https://www.incometax.gov.in/iec/foportal/

**Pedagogy**

Chalk and Talk, Power Point Presentation, Assignment, Seminar and Quiz

**Course Designer**

Dr.C.Subha.

| Semester VI | Internal Marks: 25 | | External Marks: 75 | |
|---|---|---|---|---|
| COURSE CODE | COURSE TITLE | CATEGORY | Hrs. / Week | Credits |
| 24UCO6CC13 | MANAGEMENT ACCOUNTING | CORE | 6 | 5 |

**Course Objective**

- To provide conceptual understanding of Management Accounting techniques, practices for business analysis and decision making.
- To acquire skills needed to analyse and interpret the performance of the firm through preparation of financial statement.
- To learn the process of preparing budgets and writing management report for decision making.

**Course Outcome and Cognitive Level Mapping**

| CO Number | CO Statement<br>On the successful completion of the course, students will be able to | Cognitive Level |
|---|---|---|
| CO1 | List out the concepts of Management Accounting and explain the tools and techniques used to make various management decisions. | K1, K2 |
| CO2 | Explain the role of management accounting in undertaking planning, performance measurement, controlling and decision-making and develop the ability to apply contemporary management techniques to business problems. | K2, K3 |
| CO3 | Apply the techniques of ratio analysis, standard costing, variance analysis and capital budgeting for effective managerial decision making. | K3 |
| CO4 | Analyse and interpret the performance of the firm through the preparation of financial statements and develop the knowledge to present a good management report. | K3, K4 |
| CO5 | Analyse and prepare budgets for planning and controlling in practical situations. | K4 |

**Mapping of CO with PO and PSO**

| COs/ PSOs | PSO1 | PSO2 | PSO3 | PSO4 | PSO5 | PO1 | PO2 | PO3 | PO4 | PO5 |
|---|---|---|---|---|---|---|---|---|---|---|
| CO1 | 3 | 3 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 |
| CO2 | 3 | 3 | 3 | 3 | 3 | 2 | 3 | 3 | 3 | 3 |
| CO3 | 3 | 3 | 3 | 3 | 3 | 2 | 3 | 3 | 3 | 3 |
| CO4 | 3 | 3 | 3 | 3 | 3 | 2 | 2 | 2 | 2 | 2 |
| CO5 | 3 | 3 | 3 | 3 | 3 | 2 | 3 | 3 | 3 | 3 |

"1" – Slight (Low) Correlation □ "2" – Moderate (Medium) Correlation "3"– Substantial (High) Correlation "-" Indicates there is no Correlation.

**Syllabus**

| UNIT | CONTENT | HOURS | CO'S | COGNITIVE LEVEL |
|---|---|---|---|---|
| I | Management Accounting – Meaning, Scope, Objectives, Relationship between Financial, Cost and Management Accounting – Financial Statement Analysis – Comparative Statement – Common Size Statement – Trend Analysis. Ratio Analysis – Meaning – Classification of Ratios – Computation of Ratios (excluding preparation of financial statements from ratios) – Liquidity Ratios, Solvency Ratios, Profitability Ratios, Activity or Turnover Ratios – Capital Gearing Ratios. | 18 | CO1, CO2,CO3, CO4,CO5 | K1, K2, K3,K4 |
| II | Fund Flow Statement –Meaning – Uses – Parties interested in Fund Flow Statement – Preparation – Schedule of changes in Working Capital – Funds from Operations – Sources and Applications. Cash Flow Statement – Meaning – Difference between Fund Flow and Cash Flow Analysis - Preparation of Cash Flow Statement (only indirect method) according to Accounting Standard 3. | 18 | CO1, CO2,CO3, CO4,CO5 | K1, K2, K3,K4 |
| III | Capital Budgeting – Meaning, Importance – Appraisal Method – Payback Period – Accounting Rate of Return – Discounted Cash Flow – Net Present Value – Profitability Index – Internal Rate of Return. | 18 | CO1, CO2,CO3, CO4,CO5 | K1, K2, K3,K4 |
| IV | Marginal Costing: Basic Concepts - Marginal and Absorption Costing - Cost Volume Profit Analysis – Break Even Analysis – Margin of Safety. Application of Marginal costing in Decision Making – Make or Buy – Shutdown or Continue – Exploring New Markets. | 18 | CO1, CO2,CO3, CO4,CO5 | K1, K2, K3,K4 |
| V | Budget and Budgetary Control – Meaning – Advantages – Preparation of Production, Purchase, Sales, Cash and Flexible Budget. Standard Costing – Meaning, Advantages and Limitations – Variance Analysis – Material and Labour Variance only. | 18 | CO1, CO2,CO3, CO4,CO5 | K1, K2, K3,K4 |
| VI | **Self-Study for Enrichment (Not to be included for External Examination)** Functions, Advantages and Disadvantages of Management Accounting – Advantages and Limitations of Ratio Analysis - Advantages and Limitations of Fund Flow Statement – Utility and Limitation of Cash Flow Analysis– Merits and Demerits of Marginal Costing – Requirements of good budgetary control system - Distinction between budgetary control and standard costing. | - | CO1, CO2,CO3, CO4,CO5 | K1, K2, K3,K4 |

**Distribution of Marks: Theory – 20% & Problem – 80%**

## Text Books

1. Khan M.Y.& Jain P.K. (2021). *Management Accounting*.8th edition, Tata McGraw Hill.
2. Maheswari S.N. (2018). *Principles of Management Accounting*. Revised Edition. Sultan Chand & Sons, New Delhi.
3. Arora N. (2012).*A Text Book of Cost & Management Accounting*, 11th Edition, S. Chand and Company Ltd.

## Reference Books

1. Ramachandran R. & Srinivasan R.(2020). *Management Accounting*. 17th Revised Edition, Sriram Publications.
2. R.K. Sharma, Shashi K Gupta (2015). *Cost & Management Accounting*. Kalyani Publishers, New Delhi.
3. Reddy T.S. & Hari Prasad Reddy Y. (2020). *Management Accounting*, Margham Publications.

## Web Reference

1. https://www.yourarticlelibrary.com/accounting/management accounting/management-accounting-concept-functions-and-scope/61276
2. https://images.topperlearning.com/topper/revisionnotes/7998_Topper_21_101_504_551_9837_Analysis_of_Financial_Statements_up201904241124_1556085290_1129.pdf?v=0. 0.1
3. https://www.vintti.com/blog/cash-flow-statement-vs-funds-flow-statement/
4. https://aits-tpt.edu.in/wp-content/uploads/2018/08/Capital-Budgeting.pdf
5. https://www.jkshahclasses.com/announcement/4_MarginalCosting.pdf
6. https://umeschandracollege.ac.in/pdf/study-material/accountancy/Budget-Budgetary- Control-Sem-IV.pdf

## Pedagogy

Chalk and Talk, Powerpoint Presentation, Assignment, Seminar and Quiz.

## Course Designer

Dr. J. Lalithambigai.

| Semester VI | Internal Marks: 25 | | External Marks: 75 | |
|---|---|---|---|---|
| COURSE CODE | COURSE TITLE | CATEGORY | Hrs. / Week | Credits |
| 24UCO6DSE2A | AUDITING | DISCIPLINE SPECIFIC ELECTIVE | 5 | 3 |

**Course Objective**

- To provide in-depth study of auditing principles, concepts and its practices.
- To know the meaning of internal control, internal check and audit.
- To impart knowledge about the methods of auditing and their applications.

**Course Outcome and Cognitive Level Mapping**

| CO Number | CO Statement<br>On the successful completion of the course, students will be able to | Cognitive Level |
|---|---|---|
| CO1 | Define the concepts of auditing framework systems | K1 |
| CO2 | Illustrate the roles and responsibilities of a company auditor | K2 |
| CO3 | Apply the latest technological procedures in auditing | K3 |
| CO4 | Categorize the different types of vouchers and gain an awareness regarding verification of documentary evidence. | K4 |
| CO5 | Examine the methods of investigation, Rights, duties and liabilities of an auditor regarding Investigation. | K4 |

**Mapping of CO with PO and PSO**

| COs/ PSOs | PSO1 | PSO2 | PSO3 | PSO4 | PSO5 | PO1 | PO2 | PO3 | PO4 | PO5 |
|---|---|---|---|---|---|---|---|---|---|---|
| CO1 | 2 | 3 | 3 | 3 | 2 | 3 | 2 | 2 | 2 | 3 |
| CO2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 |
| CO3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| CO4 | 2 | 3 | 3 | 3 | 2 | 4 | 2 | 3 | 3 | 3 |
| CO5 | 3 | 3 | 3 | 3 | 3 | 2 | 3 | 3 | 3 | 3 |

"1" – Slight (Low) Correlation □ "2" – Moderate (Medium) Correlation "3"–Substantial (High) Correlation "-" Indicates there is no correlation.

**Syllabus**

| UNIT | CONTENT | HOURS | CO'S | COGNITIVE LEVEL |
|---|---|---|---|---|
| I | Introduction to Auditing - Definition, Features, Importance, Elements, Differences between Accountancy, Auditing and Book- keeping, Scope of Auditing – Independent Auditing – Materiality in Auditing – Efficiency Audit – Property Audit – Techniques of Auditing. | 15 | CO1, CO2,CO3, CO4,CO5 | K1, K2, K3,K4 |
| II | Vouching - Meaning – Significance – Important factors obtained from Vouchers – Features - Difference between Checking and Vouching – Vouching of Cash Transactions – Audit Payments – Vouching of Trading Transactions – Service Transactions – Audit of Purchases – Purchase Returns – Credit Sales. | 15 | CO1, CO2,CO3, CO4,CO5 | K1, K2, K3,K4 |
| III | Verification and Valuation of Assets and Liabilities – Meaning of Verification – Problems in the Valuation of Assets – Audit of Fixed Assets – Current Assets – Debtors, Bills Receivables, Advances, Loans, Securities, Bank Balances – Verification of Liabilities, Share Capital, Trade Creditors, Outstanding Expenses. | 15 | CO1, CO2,CO3, CO4,CO5 | K1, K2, K3,K4 |
| IV | Investigation - Scope and Objectives - Approaches – Procedure - Investigation under the provision of the Companies Act – Duties and powers of investigator – Content of Investigation Report. Audit Evidence – Introduction - Gathering Audit Evidence - Principles of Audit Evidence -Criteria For Selection of Audit Evidence -Characteristics of Satisfactory Evidence -Classification of Evidence on the basis of Materiality - Process of Gathering Audit Evidence. | 15 | CO1, CO2,CO3, CO4,CO5 | K1, K2, K3,K4 |
| V | EDP Auditing – Definition – Need for Control – Effects of EDP Auditing – Foundation of EDP Auditing – Steps in EDP Audit – E- Auditing – Objectives – Features –E-filing- Audit Report – Procedure for E- filing of the Tax Audit Report. | 15 | CO1, CO2,CO3, CO4,CO5 | K1, K2, K3,K4 |
| VI | **Self-Study for Enrichment (Not to be included for External Examination)** Audit of Joint Stock Companies – Qualification and Disqualification – Powers and Duties of an Auditor – Auditors Lien – Law of Agency – Liability of an Auditor to third parties | | CO1, CO2,CO3, CO4,CO5 | K1, K2, K3,K4 |

**Text Books**


1. S. Vengadamani. (2013).*Practical Auditing.*Revised Edition. Margham Publications
2. B.N.Tandon. (2007).*Principles of Auditing.*Revised Edition. S.Chand and Company, New Delhi.
3. Pradeep Kumar, Baldev Sachdeva, Jagwant Singh. (2022). *Auditing.* 15th Edition. Kalyani Publishers.


**Reference Books**


1. Ravinder Kumar and Virendar Sharma. (2009).*Auditing Principles and Practices.*

Revised Edition. PHI Learning Pvt. Ltd. New Delhi.

2. Dr. L. Natarajan. (2018).*Practical Auditing.*Latest Edition. Margham Publications
3. Dicksee. (2000).*Principles of Auditing.*Revised Edition. Vikas Publishing House. New Delhi.


**Web Reference**

1. https://www.slideshare.net/gopikrishz/auditing-46200775
2. https://www.slideshare.net/AjayNazarene/unit-4-vouching
3. https://www.slideshare.net/vinayvp5/appointment-of-auditor-248444232
4. https://www.slideshare.net/AbdelhadiLoukili/introduction-to-investigation-73089906
5. https://www.slideshare.net/MohanRajR33/e-audit

**Pedagogy**

Lecture, Power Point Presentation, Assignment, Quiz, Seminar & Group Discussions, Experience Discussions & Brain Storming Activity.

**Course Designer**

Ms. Shilpa A. Talreja

# CAUVERY COLLEGE FOR WOMEN (AUTONOMOUS), TRICHY – 18
## PG & RESEARCH DEPARTMENT OF COMMERCE
### B.Com. CA – PROGRAMME STRUCTURE
### LEARNING OUTCOME BASED CURRICULUM FRAMEWORK (CBCS - LOCF)
### (For the candidates admitted from the academic year 2024 – 2025 onwards)

| Semester | Part | Course | Title | Subject Code | Hours | Credit | Exam Hours | Marks | | Total |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Internal | External | |
| I | I | Language Course - I (LC) | Pothutamil - I | 23ULT1 | 6 | 3 | 3 | 25 | 75 | 100 |
| | | | Hindi ka Samanya Gyan aur Nibandh | 23ULH1 | | | | | | |
| | | | Poetry, Grammar and History of Sanskrit Literature | 23ULS1 | | | | | | |
| | | | Foundation Course : Paper I – French - I | 23ULF1 | | | | | | |
| | II | English Language Course - I (ELC) | General English - I | 23UE1 | 6 | 3 | 3 | 25 | 75 | 100 |
| | III | Core Course - I (CC) | Financial Accounting -I | 23UCC1CC1 | 6 | 5 | 3 | 25 | 75 | 100 |
| | | Core Course - II (CC) | Principles of Management | 23UCC1CC2 | 6 | 5 | 3 | 25 | 75 | 100 |
| | | First Allied Course- I (AC) | Python Programming and Lab | 23UCC1AC1 | 4 | 3 | 3 | 50 | 50 | 100 |
| | IV | Ability Enhancement Compulsory Course-I (AECC) | UGC Jeevan Kaushal - Value Education | 23UGVE | 2 | 2 | - | 100 | - | 100 |
| | | **Total** | | | **30** | **21** | | | | **600** |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| II | I | Language Course - II (LC) | Pothutamil - II | 23ULT2 | 6 | 3 | 3 | 25 | 75 | 100 |
| | | | Hindi Literature & Grammar - II | 22ULH2 | | | | | | |
| | | | Prose, Grammar and History of Sanskrit Literature | 23ULS2 | | | | | | |
| | | | Basic French -II | 22ULF2 | | | | | | |
| | II | English Language Course - II (ELC) | General English - II | 23UE2 | 6 | 3 | 3 | 25 | 75 | 100 |
| | III | Core Course - III (CC) | Modern Marketing | 23UCC2CC3 | 6 | 5 | 3 | 25 | 75 | 100 |
| | | Core Course -IV (CC) | Web Design | 23UCC2CC4 | 6 | 5 | 3 | 25 | 75 | 100 |
| | | First Allied Course - II (AP) | HTML (P) | 23UCC2AC1P | 4 | 3 | 3 | 40 | 60 | 100 |
| | IV | Ability Enhancement Compulsory Course – II (AECC) | Environmental Studies | 22UGEVS | 2 | 2 | - | 100 | - | 100 |
| | Extra Credit Course | | SWAYAM Online Course | As per UGC Recommendations | | | | | | |
| | | **Total** | | | **30** | **21** | | | | **600** |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| III | I | Language Course - III (LC) | Pothutamil - III | 23ULT3 | 6 | 3 | 3 | 25 | 75 | 100 |
| | | | Hindi Literature & Grammar - III | 22ULH3 | | | | | | |
| | | | Drama, Grammar and History of Sanskrit literature | 23ULS3 | | | | | | |
| | | | Intermediate French - I | 22ULF3 | | | | | | |
| | II | English Language Course - III (ELC) | Learning Grammar through Literature - I | 23UE3 | 6 | 3 | 3 | 25 | 75 | 100 |
| | III | Core Course - V (CC) | Business Accounting | 23UCC3CC5 | 5 | 5 | 3 | 25 | 75 | 100 |
| | | Core Course - VI (CC) | Database Management Systems | 22UCC3CC6 | 5 | 5 | 3 | 25 | 75 | 100 |
| | | Second Allied Course – I (AC) | Business Law | 22UCC3AC3 | 4 | 3 | 3 | 25 | 75 | 100 |
| | IV | Ability Enhancement Compulsory Course – III (AECC) | Innovation and Entrepreneurship | 22UGIE | 2 | 1 | - | 100 | - | 100 |
| | | Ability Enhancement Compulsory Course – IV (AECC) | Health and Wellness | 24UGHW | 2* | 1 | - | 100 | - | 100 |
| | | Generic Elective Course – I (GEC) | Office Management | 22UCC3GEC1 | 2 | 2 | 3 | 25 | 75 | 100 |
| | | | Introduction to NCC@ | 24UNC3GEC1 | | | | | | |
| | | | Basic Tamil - I | 22ULC3BT1 | | | | | | |
| | | | Special Tamil - I | 22ULC3ST1 | | | | | | |
| | Extra Credit Course | | Swayam Online Course | | As per UGC Recommendations | | | | | |
| | **Total** | | | | **30** | **23** | | | | **800** |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| IV | I | Language Course - IV (LC) | Pothutamil - IV | 23ULT4 | 6 | 3 | 3 | 25 | 75 | 100 |
| | | | Hindi Literature & Functional Hindi | 22ULH4 | | | | | | |
| | | | Alankara, Didactic and Modern Literatures and Transalation | 23ULS4 | | | | | | |
| | | | Intermediate French -II | 22ULF4 | | | | | | |
| | II | English Language Course-IV (ELC) | Learning Grammar through Literature - II | 23UE4 | 6 | 3 | 3 | 25 | 75 | 100 |
| | III | Core Course - VII (CC) | Cost Accounting | 22UCC4CC7 | 5 | 5 | 3 | 25 | 75 | 100 |
| | | Core Practical - I (CP) | Database Management Systems (P) | 22UCC4CC1P | 5 | 5 | 3 | 40 | 60 | 100 |
| | | Second Allied Course – II (AC) | Business Tools for Decision Making | 22UCC4AC4 | 4 | 3 | 3 | 25 | 75 | 100 |
| | IV | Generic Elective Course– II (GEC) | E-Business | 22UCC4GEC2 | 2 | 2 | 3 | 25 | 75 | 100 |
| | | | Specialization in Army @ | 24UNC4GEC2 | | | | | | |
| | | | Basic Tamil - II | 22ULC4BT2 | | | | | | |
| | | | Special Tamil - II | 22ULC4ST2 | | | | | | |
| | | Skill Enhancement Course– I (SEC) | Accounting Package (P) | 22UCC4SEC1P | 2 | 2 | 3 | 40 | 60 | 100 |
| | Extra Credit Course | | Swayam Online Course | | As per UGC Recommendations | | | | | |
| | | **Total** | | | **30** | **23** | | | | **700** |

***30 Days INTERNSHIP during Semester Holidays.**

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| V | III | Core Course – VIII (CC) | Accounting for Managerial Decisions | **23UCC5CC8** | 6 | 5 | 3 | 25 | 75 | 100 |
| | | Core Course - IX (CC) | R Programming | **22UCC5CC9** | 5 | 5 | 3 | 25 | 75 | 100 |
| | | Core Course - X (CC) | Digital Marketing | **22UCC5CC10** | 5 | 5 | 3 | 25 | 75 | 100 |
| | | Core Practical - II (CP) | R Programming (P) | **22UCC5CC2P** | 5 | 5 | 3 | 40 | 60 | 100 |
| | | Internship | | **24UCC5INT** | - | 2 | - | - | - | 100 |
| | | Discipline Specific Elective– I (DSE) | A. Business Correspondence and Reporting | **23UCC5DSE1A** | 5 | 3 | 3 | 25 | 75 | 100 |
| | | | B. E-Retailing | **23UCC5DSE1B** | | | | | | |
| | | | C. Mobile Applications | **23UCC5DSE1C** | | | | | | |
| | IV | Ability Enhancement Compulsory Course- V (AECC) | UGC Jeevan Kaushal - Professional Skills | **22UGPS** | 2 | 2 | - | 100 | - | 100 |
| | | Skill Enhancement Course– II (SEC) | Skills for Competitive Examination | **22UCC5SEC2** | 2 | 2 | 3 | - | 100 | 100 |
| | | **Total** | | | **30** | **29** | | | | **800** |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| VI | III | Core Course – XI (CC) | Corporate Accounting | **24UCC6CC11** | 6 | 5 | 3 | 25 | 75 | 100 |
| | | Core Course - XII (CC) | Direct Taxation | **24UCC6CC12** | 6 | 5 | 3 | 25 | 75 | 100 |
| | | Core Course – XIII (CC) | Cyber Security | **22UGCS** | 5 | 4 | 3 | 25 | 75 | 100 |
| | | Discipline Specific Elective– II (DSE) | A. Management Information System | **23UCC6DSE2A** | 5 | 3 | 3 | 25 | 75 | 100 |
| | | | B. Auditing | **23UCC6DSE2B** | | | | | | |
| | | | C. Corporate Social Responsibility | **23UCC6DSE2C** | | | | | | |
| | | Project | Project Work | **24UCC6PW** | 7 | 4 | - | - | 100 | 100 |
| | IV | Ability Enhancement Compulsory Course-VI (AECC) | Gender Studies | **22UGGS** | 1 | 1 | - | 100 | - | 100 |
| | V | Extension Activity | | **22UGEA** | - | 1 | - | - | - | - |
| | | **Total** | | | **30** | **23** | | | | **600** |
| **Grand Total** | | | | | **180** | **140** | | | | **4100** |

- **@ NCC is one of the choices in GEC. Only the NCC cadets are eligible to chooses this course. However, NCC Course is not a Compulsory Course for the NCC Cadets. If the Cadet has not studied Tamil in the school level, she has to take Basic Tamil Course.**
- *** Health and Wellness shall be outside instruction hours**

## Courses & Credits for B.Com. CA

| Part | Course | No of Courses | Hrs/ Course | Credits | Total |
|---|---|---|---|---|---|
| I | Tamil/OtherLanguage | 4 | 6 | 4*3=12 | 12 |
| II | English | 4 | 6 | 4*312 | 12 |
| III | Core(Theory Practical)<br>Cyber Security | 14<br>1 | 5/6<br>5 | 14*5=70<br>1*4=4 | 98 |
| | Project Work | 1 | 7 | 4 | |
| | Internship | 1 | - | 2 | |
| | First Allied | 2 | 3/4 | 2*3=6 | |
| | Second Allied | 2 | 3/4 | 2*3=6 | |
| | DSE | 2 | 5 | 2*3=6 | |
| IV | GEC | 2 | 2 | 2*2=4 | 17 |
| | SEC | 2 | 2 | 2*2=4 | |
| | AECC-I Value Education | 1 | 2 | 2 | |
| | AECC-II-Environmental Studies | 1 | 2 | 2 | |
| | AECC-III-Innovation and Entrepreneurship | 1 | 2 | 1 | |
| | AECC-IV-Health and Wellness | 1 | - | 1 | |
| | AECC-V-Professional Skills | 1 | 2 | 2 | |
| | AECC-VI Gender Studies | 1 | 1 | 1 | |
| V | Extension Activities | -- | - | 1 | 01 |
| | | **41** | | 140 | **140** |

# B.COM CA

# VI SEMESTER

# Course Structure and Syllabus

# CAUVERY COLLEGE FOR WOMEN (AUTONOMOUS), TRICHY – 18
## PG & RESEARCH DEPARTMENT OF COMMERCE
## B.Com CA – PROGRAMME STRUCTURE
### LEARNING OUTCOME BASED CURRICULUM FRAMEWORK (CBCS - LOCF)
### (For the candidates admitted from the academic year 2024 – 2025 onwards)

| Semester | Part | Course | Title | Subject Code | Hours | Credit | Exam Hours | Marks | | Total |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Internal | External | |
| VI | III | Core Course – XI (CC) | Corporate Accounting | 24UCC6CC11 | 6 | 5 | 3 | 25 | 75 | 100 |
| | | Core Course - XII (CC) | Direct Taxation | 24UCC6CC12 | 6 | 5 | 3 | 25 | 75 | 100 |
| | | Core Course – XIII (CC) | Cyber Security | 22UGCS | 5 | 4 | 3 | 25 | 75 | 100 |
| | | Discipline Specific Elective– II (DSE) | A. Management Information System | 23UCC6DSE2A | 5 | 3 | 3 | 25 | 75 | 100 |
| | | | B. Auditing | 23UCC6DSE2B | | | | | | |
| | | | C. Corporate Social Responsibility | 23UCC6DSE2C | | | | | | |
| | | Project | Project Work | 24UCC6PW | 7 | 4 | - | - | 100 | 100 |
| | IV | Ability Enhancement Compulsory Course-VI (AECC) | Gender Studies | 22UGGS | 1 | 1 | - | 100 | - | 100 |
| | V | Extension Activity | | 22UGEA | - | 1 | - | - | - | - |
| | **Total** | | | | **30** | **23** | | | | **600** |

| Semester VI | Internal Marks: 25 | | External Marks: 75 | |
|---|---|---|---|---|
| COURSE CODE | COURSE TITLE | CATEGORY | HRS / WEEK | CREDITS |
| 24UCC6CC11 | CORPORATE ACCOUNTING | CORE | 6 | 5 |

**Course Objectives**

- To understand various adjustments related to share capital.
- To help the students to acquire conceptual knowledge of the fundamentals of the corporate accounting and the techniques of preparing the financial statements.
- To know the provisions of the Company Act and to build accountability in corporate sector.

**Course Outcome and Cognitive Level Mapping**

| CO Number | CO Statement<br>On the successful completion of the course, students will be able to | Cognitive Level |
|---|---|---|
| CO1 | Recall the conceptual background of Company Accounts. | K1 |
| CO2 | Explain the concepts and techniques on the issue and redemption of Debentures. | K2 |
| CO3 | Build knowledge on value of goodwill and shares of business firm. | K3 |
| CO4 | Apply and Examine with the legal formats, special items and adjustments pertaining to Banking companies. | K3,K4 |
| CO5 | Analyze the accounts of Holding Company. | K4 |

**Mapping of CO with PO and PSO**

| COs/ PSOs | PSO1 | PSO2 | PSO3 | PSO4 | PSO5 | PO1 | PO2 | PO3 | PO4 | PO5 |
|---|---|---|---|---|---|---|---|---|---|---|
| CO1 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| CO2 | 3 | 3 | 2 | 2 | 3 | 2 | 3 | 3 | 3 | 3 |
| CO3 | 3 | 2 | 3 | 3 | 3 | 3 | 3 | 2 | 3 | 3 |
| CO4 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 2 | 3 |
| CO5 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |

"1" – Slight (Low) Correlation –, "2" – Moderate (Medium)Correlation
"3"–Substantial(High)Correlation"-"Indicatesthereisnocorrelation.

**Syllabus**

| UNIT | CONTENT | HOURS | CO'S | COGNITIVE LEVEL |
|---|---|---|---|---|
| I | Accounting for Share Capital - Issue of shares: Par, Premium and Discount, Forfeiture and Reissue of Shares, Issue of rights and bonus shares. | 18 | CO1,CO2, CO3,CO4, CO5 | K1, K2, K3,K4 |
| II | Issue and Redemption of debentures-Accounting Treatment for Debentures Issued at Par at a Discount and at a Premium and repayable at a par and at premium. | 18 | CO1, CO2,CO3, CO4,CO5 | K1, K2, K3,K4 |
| III | Valuation of goodwill and shares – Need and Methods - Average Profit Method, Super Profits Method – Capitalization Method and Annuity Method. | 18 | CO1, CO2,CO3, CO4,CO5 | K1, K2, K3,K4 |
| IV | Accounts of Holding Companies (excluding Inter Company Holdings). | 18 | CO1, CO2,CO3, CO4,CO5 | K1, K2, K3,K4 |
| V | Accounts of Banking Companies (new format) - Preparation of Profit and Loss Account – Balance Sheet. | 18 | CO1, CO2,CO3, CO4,CO5 | K1, K2, K3,K4 |
| VI | **Self-Study for Enrichment (Not to be included for External Examination).** Company Final Accounts- Provisions of the Companies Act, 2013. | | CO1, CO2,CO3, CO4,CO5 | K1, K2, K3,K4 |

**Distribution of Marks: Theory 20%and Problems 80%**

**Text Books**


1. Reddy. T S, MurthyA, (2023).*Corporate Accounting*. Margham Publications.
2. S.P. Jain, K.L. Narang (2017).*Corporate Accounting*.Kalyani Publishers.
3. Tulsain, P.C:(2023).*Corporate Accounting*, S. Chand Publication. New Delhi.

**Reference Books**


1. Maheshwari S.N (2018).*Corporate Accountancy*. Vikas Publishing House,NewDelhi.
2. Gupta. R L, Radhasamy M, (2021).*Corporate Accounting*.Sultan Chand & Sons.
3. M.C.Shukla, T.S.Grewal (2016).*Advanced Accountancy*.Sultan Chand & Sons.


**Web Reference**

1. https://www.gacwrmd.in/learning/Commerce/Corporate%20Accounting1.pdf
2. https://www.icsi.edu/media/webmodules/Corporate%20and%20Management%20Accounting.pdf
3. https://testbook.com/objective-questions/mcq-on-corporate-accounting--5f9168bba03904a227ce6338
4. https://ddceutkal.ac.in/Downloads/UG_SLM/Commerce/Corporate_Accounting.pdf
5. https://www.drnishikantjha.com/booksCollection/Corporate%20Accounting%20.pdf

**Pedagogy**

Lecture, Power Point Presentation, Assignment, Quiz, Seminar, Group Discussions& Activity.

**Course Designer**

Dr. P. Banu

| Semester VI | Internal Marks: 25 | | External Marks: 75 | |
|---|---|---|---|---|
| COURSE CODE | COURSE TITLE | CATEGORY | Hrs / Week | Credits |
| 24UCC6CC12 | DIRECT TAXATION | CORE | 6 | 5 |

## Course Objective

- To help the students to understand and apply the basic concepts and provisions of Income Tax Act 1961.
- To apply various deduction and exemptions in the computation of total income of Assessee.
- To gain procedural knowledge about Income Tax law in force for the relevant assessment year.

## Course Outcome and Cognitive Level Mapping

| CO Number | CO Statement<br>On the successful completion of the course, students will be able to | Cognitive Level |
|---|---|---|
| CO1 | Define the basic concepts of Income Tax, Residential Status of an Individual Assessee and Incidence of Tax. | K1 |
| CO2 | Explain the computation of Income from Salary, House Property, Business or Profession, Capital Gain and Income from Other Sources. | K2 |
| CO3 | Apply the exemption and deduction under various heads of income. | K3 |
| CO4 | Analyze the total tax liability of individual Assessee. | K4 |
| CO5 | Evaluate the legal obligations and requirements of e filing of the Income Tax | K5 |

## Mapping of CO with PO and PSO

| COs/ PSOs | PSO1 | PSO2 | PSO3 | PSO4 | PSO5 | PO1 | PO2 | PO3 | PO4 | PO5 |
|---|---|---|---|---|---|---|---|---|---|---|
| CO1 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| CO2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| CO3 | 3 | 3 | 3 | 3 | 3 | 3 | 2 | 3 | 2 | 2 |
| CO4 | 3 | 3 | 2 | 3 | 3 | 2 | 3 | 2 | 2 | 2 |
| CO5 | 3 | 3 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |

"1" – Slight (Low) Correlation – "2" – Moderate (Medium) Correlation
"3"–Substantial(High) Correlation"-"Indicates there is no correlation.

**Syllabus**

| UNIT | CONTENT | HOURS | CO'S | COGNITIVE LEVEL |
|---|---|---|---|---|
| I | History of Income Tax - Canons of Taxation – Assessee - Person – Income – Agricultural Income – Assessment Year – Previous Year – Capital and Revenue Receipts and Expenditure - Total Income – Residential status of Individual – Incidence of Tax – Income Exempted under section 10. | 18 | CO1, CO2,CO3, CO4,CO5 | K1, K2, K3,K4,K5 |
| II | Income from Salary – Features – Advance Salary - Arrear of Salary – Basis of Charges Section 15 - Allowances – Perquisites - Retirement Benefits –Deduction under section 16 – Deduction under section 80C | 18 | CO1, CO2,CO3, CO4,CO5 | K1, K2, K3,K4,K5 |
| III | Income from House Property – Exempted Income from House Property – Deemed owner of House Property - Determination of Gross Annual Value and Net Annual Value – Partly Let Out and Partly Self Occupied House - Sub-letting – Calculation of Interest on Borrowed Capital –Deduction under section 24. | 18 | CO1, CO2,CO3, CO4,CO5 | K1, K2, K3,K4,K5 |
| IV | Income from Business – Important terms – Income and Expenses Expressly Allowed and Disallowed – Treatment of Bad Debts Recovered, Under and Over valuation of Stock, Treatment of Depreciation. Income from Profession. | 18 | CO1, CO2,CO3, CO4,CO5 | K1, K2, K3,K4,K5 |
| V | Income from Capital Gain –Types of Capital Assets – Computation of Long Term and Short Term Capital Gain – Exemption under section 54. Income from Other Sources –Various Kinds of Securities -Deduction under section 57 – Set off and Carry forward of losses (Theory) – Deduction from Gross Total Income - Computation of Total Tax Liability – E - filing. | 18 | CO1, CO2,CO3, CO4,CO5 | K1, K2, K3,K4,K5 |

| | | | | |
|---|---|---|---|---|
| **VI** | **Self-Study for Enrichment (Not to be included for External Examination)** Advance Payment of Tax - Tax Deducted at Source –Income Tax Authorities. | | **CO1, CO2,CO3, CO4,CO5** | **K1, K2, K3,K4,K5** |

**Distribution of Marks: Theory 20% & Problem 80%**

**Text Books**

1. Dr.T.Srinivasan (2025), *Income Tax Law and Practice,* Vijay Nicole Imprints Private Ltd , Chennai.
2. T.S.Reddy and Y.Hari Prasad Reddy (2025), *Income Tax Law and Practice,* Margham Publication.Chennai.
3. Dr.H.C.Mehrotra (2025), *Income Tax Law and Practice,* Shithya Bhavan Publication. Agra, Uttar Pradesh.

**Reference Books**

1. Dr. Vinod K.Singhania, Dr.Kapil Singhania (2025), Income Tax *Law and Practice,* Taxmann Publications, Chennai.
2. K.Rajavelu, (2025), Income Tax Law and Practice,SVP Publication.Chennai.
3. CA. Raj K Agrawal, (2025) Handbook on Income Tax, Bharat Law House, Delhi.

**Web Reference**

1. https://www.taxmann.com/post/blog/tax-concept
2. https://cleartax.in/paytax/TaxCalculator
3. https://tax2win.in/guide/house-property
4. https://www.icai.org/post.html?post_id=19576
5. https://www.incometax.gov.in/iec/foportal/

**Pedagogy**

Chalk and Talk, Power Point Presentation, Assignment, Seminar and Quiz

**Course Designer**

Dr.C.Subha.

# ANNEXURE G

**CAUVERY COLLEGE FOR WOMEN (AUTONOMOUS)**
**Nationally Accredited (IV Cycle) with "A+" Grade by NAAC**
**Annamalai Nagar, Trichy-18**
**PG AND RESEARCH DEPARTMENT OF MATHEMATICS**

**Agenda for the Twelfth Meeting of BOS(Internal)**

**DATE : 03.04.2025**
**VENUE : PG AND RESEARCH DEPARTMENT OF MATHEMATICS**
**TIME : 2.30 PM**
**The Agenda for the meeting is as follows:**

**ITEM NO: BOS/12/25/01**
To consider and to approve the new course AECC –IV- Health and Wellness and GEC-I – Introduction to NCC in Semester III of **B.Sc. Mathematics** for 2024-2025 batch onwards and recommend to the Academic Council, Cauvery College for Women (Autonomous), Trichy.

**ITEM NO: BOS/12/25/02**
To consider and ratify the credits of Core Course VII – Sequences and Series and GEC-II – Specialization in Army in Semester IV, Core Course X – Real Analysis in Semester V of **B.Sc. Mathematics** for 2024-2025 batch and onwards and recommend to the Academic Council, Cauvery College for Women (Autonomous), Trichy.

**ITEM NO: BOS/12/25/03**
To consider and ratify the syllabus of Core Course XIV– Complex Analysis in VI Semester of **B.Sc. Mathematics** for 2024-2025 batch and onwards and recommend to the Academic Council, Cauvery College for Women (Autonomous), Trichy.

**ITEM NO: BOS/12/25/04**
To consider and approve the Internship in V semester with Course code 24UMA5INT instead of IV Semester of **B.Sc. Mathematics** for 2024-2025 batch and onwards and recommend to the Academic Council, Cauvery College for Women (Autonomous), Trichy.

**ITEM NO: BOS/12/25/05**
To consider and ratify the Hours of Project work in VI semester 24UMA6PW for **B.Sc. Mathematics** of 2024-2025 batch and onwards and recommend to the Academic Council, Cauvery College for Women (Autonomous), Trichy.

**ITEM NO. BOS/12/25/06**
Any other matter with the permission of the Chair.

**CAUVERY COLLEGE FOR WOMEN (AUTONOMOUS)**
**Nationally Accredited (IV Cycle) with "A+" Grade by NAAC**
**Annamalai Nagar, Trichy -18.**

**PG AND RESEARCH DEPARTMENT OF MATHEMATICS**

**MINUTES OF THE TWELFTH MEETING OF THE BOS (Internal)**

**DATE : 03.04.2025**
**VENUE : PG AND RESEARCH DEPARTMENT OF MATHEMATICS**
**TIME : 2.30PM**
**Members Present:**

| | | |
|---|---|---|
| 1. | Dr. S. Premalatha | Chairperson, Professor & HOD |
| 2. | Dr. G. Janaki | Member |
| 3. | Dr. V. Geetha | Member |
| 4. | Dr. S. Sasikala | Member |
| 5. | Dr. S. Saridha | Member |
| 6. | Dr.R.Radha | Member |
| 7. | Dr. E. Litta | Member |
| 8. | Dr. P. Shalini | Member |
| 9. | Dr. P. Saranya | Member |
| 10. | Dr. S. Vidhya | Member |
| 11. | Dr. C. Saranya | Member |
| 12. | Dr. L. Mahalakshmi | Member |
| 13. | Dr. P. Geethanjali | Member |
| 14. | Dr.R. Divya | Member |
| 15. | Dr. K. Kalaiarasi | Member |
| 16. | Ms. P. Sangeetha | Member |
| 17. | Ms. V. Manimozhi | Member |
| 18. | Dr. P. Sudha | Member |
| 19. | Ms. R. Soundaria | Member |
| 20. | Ms. A. Gowri Shankari | Member |

**ACTION TAKEN REPORT OF BOS HELD ON 03.04.2025**

The BOS Meeting was held on 03.04.2025 at 2.30 P.M. The Chairman of the BOS read the minutes of the meeting and the following Resolutions were confirmed

- Ratification of Course Credits of IV, V Semester Syllabus of B.Sc. Mathematics for 2024-2025 batch and onwards.
- Ratification of Hours of Core Course-XIV & Project work in VI Semester of B.Sc. Mathematics for 2024-2025 batch and onwards.

**MINUTES OF THE TWELFTH MEETING OF THE BOS HELD ON 03.04.2025**

**RESOLUTION NO.BOS/12/25/01**

Resolved to introduce the new courses AECC-IV, GEC- I in Semester III and GEC- II in Semester IV of B.Sc Mathematics for 2024-2025 batch and onwards and recommend to the Academic Council, Cauvery College for Women (Autonomous), Trichy, with the following changes for

1. AECC-IV- Health and Wellness with 1 Credit is introduced with Course code 24UGHW in Semester III.
2. GEC-I- Introduction to NCC is introduced with Course code 24UNC3GEC1 as one of the Elective Course for NCC Cadets in Semester III.
3. GEC-II- Specialization in Army is introduced with Course code 24UNC4GEC2 as one of the Elective Course for NCC Cadets in Semester IV..

**RESOLUTION NO.BOS/12/25/02**

Resolved to ratify the credits of Core Course VII, X of **B.Sc. Mathematics** for 2024-2025 batch and onwards and recommend to the Academic Council, Cauvery College for Women (Autonomous), Trichy

1. Credit of Core Course VII – Sequence and Series is changed as 4 with Course Code 24UMA4CC7 in Semester IV.
2. Credit of Core Course X– Real Analysis is changed as 4 with Course Code 24UMA5CC10 in Semester V.

**RESOLUTION NO.BOS/12/25/03**

Resolved to ratify the credits and Hours of Core Course XIV of **B.Sc. Mathematics** in Semester VI for 2024-2025 batch and onwards and recommend to the Academic Council, Cauvery College for Women (Autonomous), Trichy

1. Core Course XIV– Complex Analysis the hours are changed to 6 and the credit is changed as 5 with Course Code 24UMA6CC14.

   Topics Included:

   Mappings by the Exponential Function – Mapping Vertical Line Segments by $w = Sin\, z$ – Mapping Horizontal Line Segments by $w = Sin\, z$ – Some related Mappings.

**RESOLUTION NO.BOS/12/25/04**

Resolved to approve the Internship of **B.Sc. Mathematics** for 2024-2025 batch and onwards and recommend to the Academic Council, Cauvery College for Women (Autonomous), Trichy.

1. Internship in III Semester holidays is shifted to IV Semester holidays and time duration 15 days is extended to 30 days with Course Code 24UMA5INT. The internship will be evaluated in the V Semester.

**RESOLUTION NO.BOS/12/25/05**

Resolved to ratify the Hours of Project work of **B.Sc. Mathematics** for 2024-2025 batch and onwards and recommend to the Academic Council, Cauvery College for Women (Autonomous), Trichy

1. Project Work is changed to 4 hours with Course Code 24UMA6PW.

Dr.S.Saridha, Associate Professor expressed her gratitude for the valuable suggestions given by the internal and external BOS members during the BOS meetings for the period 2024-2025 and thanked all the members of BOS in the Vote of Thanks.

**Chairman of the Board**

Dr. S. PREMALATHA, M.Sc.,M.Phil.,Ph.D.,
Professor & Head
PG & Research Department of Mathematics
Cauvery College for Women (Autonomous)
Annamalai Nagar, Trichy - 620 018.

# Cauvery College for Women (Autonomous), Tiruchirappalli -620 018

## PG and Research Department of Mathematics

## XII Board of Studies Meeting Held on 03.04.2025

**1. Introduction of new courses from the academic year 2024 -2025 based on the feedback collected from various stake holders**

The Chairman of the Board Dr. S. Premalatha, proposed the introduction of the following new course(s) in the curriculum of the B.Sc., Mathematics and M.Sc., Mathematics from the academic Year 2024 - 2025.

| Name of the programme | Name of the Course | Course Code | Year of introduction |
|---|---|---|---|
| B.Sc., Mathematics | – | – | – |
| M.Sc., Mathematics | – | – | – |

**2. Revision of syllabus of the existing courses from the academic year 2024 – 2025 based on the feedback collected from various stake holders**

The Chairman of the Board, Dr. S. Premalatha, proposed the revision of syllabus in the curriculum of the B.Sc., Mathematics and M.Sc., Mathematics from the academic Year 2024 - 2025

| Name of the programme | Name of the Course | Course Code | Core/Elective | % of Content added or replaced |
|---|---|---|---|---|
| B.Sc., Mathematics | Complex Analysis | 24UMA6CC14 | Core | 20% |
| M.Sc., Mathematics | - | - | - | - |

**Chairman of the Board**

Dr. S. PREMALATHA, M.Sc.,M.Phil.,Ph.D.,
Professor & Head
PG & Research Department of Mathematics
Cauvery College for Women (Autonomous)
Annamalai Nagar, Trichy - 620 018.

**Dean of Science**

# CAUVERY COLLEGE FOR WOMEN (AUTONOMOUS)

**Nationally Accredited (IV Cycle) with 'A+' grade by NAAC**

## PG AND RESEARCH DEPARTMENT OF MATHEMATICS

# B.Sc., MATHEMATICS

# AUTONOMOUS SYLLABUS

# (2024-2025 and ONWARDS)

# CAUVERY COLLEGE FOR WOMEN (AUTONOMOUS)

# PG AND RESEARCH DEPARTMENT OF MATHEMATICS

## VISION

To strive for excellence in the mathematical sciences in addition to encourage people to undertake opportunities in transdisciplinary domains.

## MISSION

- To enhance analytical and logical problem-solving capabilities.
- To provide excellent mathematical science knowledge for a suitable career and to groom students for national prominence.
- To teach students how to use data analytics.
- To prepare students for transdisciplinary research and applications.
- Value-based education and service-oriented training programmes are used to acquire life skills.

# PROGRAMME EDUCATIONAL OBJECTIVES (PEOs)

| PEOs | Statements |
|---|---|
| PEO1 | **LEARNING ENVIRONMENT**<br>To facilitate value-based holistic and comprehensive learning by integrating innovative learning practices to match the highest qualitystandards and train the students to be effective leaders in their chosenfields. |
| PEO2 | **ACADEMIC EXCELLENCE**<br>To provide a conducive environment to unleash their hidden talents and to nurture the spirit of critical thinking and encourage them to achieve their goal. |
| PEO3 | **EMPLOYABILITY**<br>To equip students with the required skills in order to adapt to the changing global scenario and gain access to versatile career opportunities in multidisciplinary domains. |
| PEO4 | **PROFESSIONAL ETHICS AND SOCIAL RESPONSIBILITY**<br>To develop a sense of social responsibility by formulating ethics and equity to transform students into committed professionals with a strong attitude towards the development of the nation. |
| PEO5 | **GREEN SUSTAINABILITY**<br>To understand the impact of professional solutions in societal and environmental contexts and demonstrate the knowledge for an overall sustainable development. |

# PROGRAMME OUTCOMES FOR B.Sc Mathematics, B.Sc Physics, B.Sc Chemistry PROGRAMME

After completing a B.Sc., programme, a learner will be able to

| PO NO. | On completion of B.Sc Mathematics / B.Sc Physics / B.Sc Chemistry Programme, the students will be able to |
|---|---|
| PO1 | **DOMAIN KNOWLEDGE**<br>Analyse, design and develop solutions by applying from fundamental concepts of basic sciences and expertise in discipline. |
| PO2 | **PROBLEM SOLVING**<br>Ability to think abstractly, to evaluate and concentrates effectively on problem-solving, as well as knowledge of global challenges. |
| PO3 | **CREATIVE THINKING AND TEAM WORK**<br>Develop prudent decision-making skills and mobility to work in teams to solve multifaceted problems. |
| PO4 | **EMPLOYABILITY**<br>Self-study acclimatize them to observe effective interactive practices for practical learning enabling them to be a successful science graduate. |
| PO5 | **LIFE LONG LEARNING**<br>Assure consistent improvement in the performance and arouse interest to pursue higher studies in premium institutions. |

## PROGRAMME SPECIFIC OUTCOMES FOR B.Sc MATHEMATICS

| PSO NO. | The Students of B.Sc Mathematics will be able to | POs Addressed |
|---|---|---|
| **PSO1** | Procure a precise understanding of the mathematical concepts. | PO1, PO3 |
| **PSO2** | Excel by enhancing interpersonal skills, overcoming procedural challenges and intending career paths. | PO3, PO4 |
| **PSO3** | Recognize, strengthen and analyse mathematical problems in order to acquire better conclusion. | PO4, PO5 |
| **PSO4** | Manipulate numerical abilities across a variety of domains. | PO2, PO5 |
| **PSO5** | Develop and desire to learn more about advanced mathematics and its applications. | PO5 |

**CAUVERY COLLEGE FOR WOMEN (AUTONOMOUS)**
**PG AND RESEARCH DEPARTMENT OF MATHEMATICS**
**B.Sc MATHEMATICS PROGRAMME STRUCTURE**
LEARNING OUTCOME BASED CURRICULUM FRAMEWORK (CBCS-LOCF)
(For the candidates admitted from the Academic year 2024-2025 Onwards)

| Semester | Part | Course | Course Title | Course Code | Inst. Hrs. / week | Credits | Exam | | | Total |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | Hrs. | Marks | | |
| | | | | | | | | Int | Ext | |
| I | I | Language Course – I (LC) | பொதுத்தமிழ் - I | 23ULT1 | 6 | 3 | 3 | 25 | 75 | 100 |
| | | | Hindi Ka Samanya Gyan Aur Nibandh | 23ULH1 | | | | | | |
| | | | Poetry, Grammar and History of Sanskrit Literature | 23ULS1 | | | | | | |
| | | | Foundation Course: Paper I- French I | 23ULF1 | | | | | | |
| | II | English Language Course – I (ELC) | General English-I | 23UE1 | 6 | 3 | 3 | 25 | 75 | 100 |
| | III | Core Course – I (CC) | Algebra and Trigonometry | 23UMA1CC1 | 4 | 4 | 3 | 25 | 75 | 100 |
| | | Core Course – II (CC) | Differential Calculus | 23UMA1CC2 | 5 | 4 | 3 | 25 | 75 | 100 |
| | | First Allied Course – I (AC) | Mathematical Statistics | 23UMA1AC1 | 5 | 4 | 3 | 25 | 75 | 100 |
| | | First Allied Course – II (AP) | Programming Language using MATLAB (P) | 23UMA1AC2P | 2 | 2 | 3 | 40 | 60 | 100 |
| | IV | Ability Enhancement Compulsory Course – I (AECC) | Value Education | 23UGVE | 2 | 2 | - | 100 | - | 100 |
| | | | | **Total** | **30** | **22** | | | | **700** |
| II | I | Language Course – II (LC) | பொதுத்தமிழ் -II | 23ULT2 | 6 | 3 | 3 | 25 | 75 | 100 |
| | | | Hindi Literature and Grammar II | 22ULH2 | | | | | | |
| | | | Prose, Grammar and History of Sanskrit Literature | 23ULS2 | | | | | | |
| | | | Basic French-II | 22ULF2 | | | | | | |
| | II | English Language Course – II (ELC) | General English-II | 23UE2 | 6 | 3 | 3 | 25 | 75 | 100 |
| | III | Core Course – III (CC) | Differential Equations and Laplace Transforms | 23UMA2CC3 | 4 | 4 | 3 | 25 | 75 | 100 |
| | | Core Course – IV (CC) | Integral Calculus | 23UMA2CC4 | 4 | 4 | 3 | 25 | 75 | 100 |
| | | Core Practical –I (CP) | Statistics with Excel (P) | 23UMA2CC1P | 2 | 2 | 3 | 40 | 60 | 100 |
| | | First Allied Course – III (AC) | Applied Statistics | 23UMA2AC3 | 4 | 3 | 3 | 25 | 75 | 100 |
| | IV | Ability Enhancement Compulsory Course–II (AECC) | Environmental Studies | 22UGEVS | 2 | 2 | - | 100 | - | 100 |
| | | Ability Enhancement Compulsory Course-III (AECC) | Innovation and Entrepreneurship | 22UGIE | 2 | 1 | - | 100 | - | 100 |
| | | Extra Credit Course | SWAYAM | | As per UGC Recommendation | | | | | |
| | | | | **Total** | **30** | **22** | | | | **800** |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| III | I | Language Course – III (LC) | பொதுத்தமிழ் -III | 23ULT3 | 6 | 3 | 3 | 25 | 75 | 100 |
| | | | Hindi Literature & Grammar III | 22ULH3 | | | | | | |
| | | | Drama, Grammar and History of Sanskrit Literature | 23ULS3 | | | | | | |
| | | | Intermediate French – I | 22ULF3 | | | | | | |
| | II | English Language Course – II (ELC) | Learning Grammar Through Literature – I | 23UE3 | 6 | 3 | 3 | 25 | 75 | 100 |
| | III | Core Course – V (CC) | Analytical Geometry (3D) | 22UMA3CC5 | 4 | 4 | 3 | 25 | 75 | 100 |
| | | Core Course – VI (CC) | Vector Calculus and Fourier Series | 23UMA3CC6 | 5 | 4 | 3 | 25 | 75 | 100 |
| | | Second Allied Course – I (AC) | Python Programming | 23UMA3AC4 | 4 | 3 | 3 | 25 | 75 | 100 |
| | | Second Allied Course–II (AP) | Python Programming (P) | 23UMA3AC5P | 3 | 3 | 3 | 40 | 60 | 100 |
| | | Ability Enhancement Compulsory Course – IV (AECC) | Health and Wellness | 24UGHW | 2* | 1 | - | 100 | - | 100 |
| | IV | Generic Elective Course – I (GEC) | Mathematics for Competitive Examinations – I | 22UMA3GEC1 | 2 | 2 | 3 | 25 | 75 | 100 |
| | | | Introduction to NCC | 24UNC3GEC1 | | | | | | |
| | | | Basic Tamil-I | 22ULC3BT1 | | | | | | |
| | | | Special Tamil-I | 22ULC3ST1 | | | | | | |
| | Extra Credit Course | | SWAYAM | | As per UGC Recommendation | | | | | |
| | | | | **Total** | **30** | **23** | | | | **800** |
| IV | I | Language Course – IV (LC) | பொதுத்தமிழ் –IV | 23ULT4 | 6 | 3 | 3 | 25 | 75 | 100 |
| | | | Hindi Literature & Functional Hindi | 22ULH4 | | | | | | |
| | | | Alankara, Didactic and Modern Literatures and Translation | 23ULS4 | | | | | | |
| | | | Intermediate French - II | 22ULF4 | | | | | | |
| | II | English Language Course – IV (ELC) | Learning Grammar Through Literature – II | 23UE4 | 6 | 3 | 3 | 25 | 75 | 100 |
| | III | Core Course – VII (CC) | Sequences and Series | 24UMA4CC7 | 5 | 4 | 3 | 25 | 75 | 100 |
| | | Core Course – VIII (CC) | Methods in Numerical Analysis | 23UMA4CC8 | 5 | 4 | 3 | 25 | 75 | 100 |
| | | Second Allied Course – III (AC) | Internet of Things | 22UMA4AC6 | 4 | 3 | 3 | 25 | 75 | 100 |
| | IV | Generic Elective Course – II (GEC) | Mathematics for Competitive Examinations – II | 22UMA4GEC2 | 2 | 2 | 3 | 25 | 75 | 100 |
| | | | Specialization in Army | 24UNC4GEC2 | | | | | | |
| | | | Basic Tamil-II | 22ULC4BT2 | | | | | | |
| | | | Special Tamil-II | 22ULC4ST2 | | | | | | |
| | | Skill Enhancement Course – I (SEC) | Statistical Tools and Techniques - R Programming (P) | 22UMA4SEC1P | 2 | 2 | 3 | 40 | 60 | 100 |
| | Extra Credit Course | | SWAYAM | | As per UGC Recommendation | | | | | |
| | | | | **Total** | **30** | **21** | | | | **700** |

**30 Days INTERNSHIP during Semester Holidays**

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| V | III | Core Course – IX (CC) | Abstract Algebra | 23UMA5CC9 | 6 | 5 | 3 | 25 | 75 | 100 |
| | | Core Course – X (CC) | Real Analysis | 24UMA5CC10 | 5 | 4 | 3 | 25 | 75 | 100 |
| | | Core Course – XI (CC) | Statics | 23UMA5CC11 | 5 | 4 | 3 | 25 | 75 | 100 |
| | | Core Course – XII (CC) | Discrete Mathematics | 23UMA5CC12 | 5 | 4 | 3 | 25 | 75 | 100 |
| | | Internship | Internship | 24UMA5INT | - | 2 | - | - | 100 | 100 |
| | | Discipline Specific Elective – I (DSE) | A. Operations Research | 23UMA5DSE1A | 5 | 3 | 3 | 25 | 75 | 100 |
| | | | B. Astronomy | 23UMA5DSE1B | | | | | | |
| | | | C. Artificial Intelligence | 23UMA5DSE1C | | | | | | |
| | IV | Ability Enhancement Compulsory Course – V (AECC) | UGC Jeevan Kaushal - Professional Skills | 22UGPS | 2 | 2 | - | 100 | - | 100 |
| | | Skill Enhancement Course – II (SEC) | LaTeX (P) | 22UMA5SEC2P | 2 | 2 | 3 | 40 | 60 | 100 |
| | | Extra Credit Course | SWAYAM | | As per UGC Recommendation | | | | | |
| | | | | **Total** | **30** | **26** | | | | **800** |
| VI | III | Core Course – XIII (CC) | Linear Algebra | 23UMA6CC13 | 5 | 4 | 3 | 25 | 75 | 100 |
| | | Core Course – XIV(CC) | Complex Analysis | 24UMA6CC14 | 6 | 5 | 3 | 25 | 75 | 100 |
| | | Core Course –XV (CC) | Dynamics | 22UMA6CC15 | 4 | 4 | 3 | 25 | 75 | 100 |
| | | Core Course –XVI (CC) | Cyber Security | 22UGCS | 5 | 4 | 3 | 25 | 75 | 100 |
| | | Discipline Specific Elective –II (DSE) | A. Graph Theory | 23UMA6DSE2A | 5 | 3 | 3 | 25 | 75 | 100 |
| | | | B. Number Theory | 23UMA6DSE2B | | | | | | |
| | | | C. Fundamentals of Big Data Analytics | 23UMA6DSE2C | | | | | | |
| | | Project | Project Work | 24UMA6PW | 4 | 4 | - | - | 100 | 100 |
| | V | Ability Enhancement Compulsory Course – VI (AECC) | Gender Studies | 22UGGS | 1 | 1 | - | 100 | - | 100 |
| | | Extension activity | | 22UGEA | 0 | 1 | - | - | - | - |
| | | | | **Total** | **30** | **26** | | | | **700** |
| | | | | **Grand Total** | **180** | **140** | | | | **4500** |

**Note:**

Part – I-Language – Tamil/Hindi/French/Sanskrit

Part – II- English

**List of Allied Courses:**

Allied Course I- Mathematical Statistics

Allied Course II- Computer Science

| Part | Course | No. of Courses | Hours/ Course | Credits | Total Credits |
|---|---|---|---|---|---|
| I | Tamil/ Other Language | 4 | 6 | 12 | 12 |
| II | English | 4 | 6 | 12 | 12 |
| III | Core (Theory)<br>Core (Theory)<br>Core Practical<br>Cyber Security | 13<br>2<br>1<br>1 | 4/5<br>6<br>2<br>5 | 13*4=52<br>2*5=10<br>1*2=2<br>1*4=4 | 98 |
| | Project Work | 1 | 4 | 4 | |
| | Internship | 1 | - | 2 | |
| | First Allied | 3 | 5/4 | 3*3=9 | |
| | Second Allied | 3 | 4/3 | 3*3=9 | |
| | DSE | 2 | 5 | 2*3=6 | |
| IV | GEC | 2 | 2 | 2*2=4 | 17 |
| | SEC | 2 | 2 | 2*2=4 | |
| | AECC-I -Universal Human Values | 1 | 2 | 2 | |
| | AECC-II-Environmental Studies | 1 | 2 | 2 | |
| | AECC-III-Innovation and Entrepreneurship | 1 | 2 | 1 | |
| | AECC-IV-Health and Wellness | 1 | - | 1 | |
| | AECC-V- Professional Skills | 1 | 2 | 2 | |
| | AECC-VI- Gender Studies | 1 | 1 | 1 | |
| V | Extension Activities | 0 | | 1 | 01 |
| | | **45** | | **140** | **140** |

The Internal and External marks for Theory and practical papers are as follows:

| Subject | Internal Marks | External Marks |
|---|---|---|
| Theory | 25 | 75 |
| Practical | 40 | 60 |

**FOR THEORY:**

The passing minimum for CIA shall be 40% out of 25 marks [i.e. 10 marks].

The passing minimum for University Examinations shall be 40% out of 75 marks [ i.e. 30 marks].

**FOR PRACTICAL:**

The passing minimum for CIA shall be 40% out of 40 marks [i.e. 16 marks].

The passing minimum for University Examinations shall be 40% out of 60 marks [ i.e. 24 marks].

**CORE COURSE VII – (CC)**

**SEQUENCES AND SERIES**

**(2024-2025 Onwards)**

| Semester IV | Internal Marks: 25 | | External Marks:75 | |
|---|---|---|---|---|
| **COURSE CODE** | **COURSE TITLE** | **CATEGORY** | **Hrs / Week** | **CREDITS** |
| **24UMA4CC7** | **SEQUENCES AND SERIES** | **CORE** | **5** | **4** |

**Course Objective**

- To lay a good foundation for classical analysis.
- To study the behavior of sequences and series.
- To acquire the knowledge of solving problems in Binomial, Logarithm & Exponential Series.

**Course Outcomes**

**Course Outcome and Cognitive Level Mapping**

| CO Number | CO Statement<br>On the Successful completion of the course, students will be able to | Cognitive Level |
|---|---|---|
| **CO1** | Explain the concepts of convergent sequences, divergent sequences and series. | **K2** |
| **CO2** | Apply the ideas of sequences in Algebra of limits and Compute the behavior of monotonic functions. | **K3** |
| **CO3** | Apply the theory of Cauchy's condensation test and Cauchy's root test on series. | **K3** |
| **CO4** | Solve the problems based on binomial, logarithmic and exponential series. | **K3** |
| **CO5** | Examine infinite series using D' Alembert's ratio test. | **K4** |

**Mapping of CO with PO and PSO**

| COs | PSO1 | PSO2 | PSO3 | PSO4 | PSO5 | PO1 | PO2 | PO3 | PO4 | PO5 |
|---|---|---|---|---|---|---|---|---|---|---|
| **CO1** | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 2 | 3 |
| **CO2** | 3 | 3 | 2 | 3 | 2 | 3 | 3 | 3 | 2 | 2 |
| **CO3** | 3 | 3 | 2 | 3 | 2 | 3 | 3 | 3 | 2 | 2 |
| **CO4** | 3 | 3 | 3 | 3 | 3 | 3 | 2 | 3 | 3 | 3 |
| **CO5** | 3 | 3 | 3 | 3 | 2 | 3 | 3 | 3 | 3 | 2 |

"1" – Slight (Low) Correlation – "2" – Moderate (Medium) Correlation – "3" – Substantial (High) Correlation – "-" indicates there is no correlation.

**Syllabus**

| UNIT | CONTENT | HOURS | Cos | COGNITIVE LEVEL |
|---|---|---|---|---|
| I | Introduction – Sequences – Bounded Sequences – Monotonic Sequences – Convergent Sequences – Divergent Sequences and Oscillating Sequences – The Algebra of Limits. | 15 | CO1, CO2, CO3, CO4, CO5 | K2, K3, K4 |
| II | Behavior of Monotonic sequences – Some theorems on limits –Subsequences -Limit points. | 15 | CO1, CO2, CO3, CO4, CO5 | K2, K3, K4 |
| III | Infinite Series – Definition of Convergence, Divergence & Oscillate – Convergence of Geometric series – Some general theorems concerning infinite series – Series of positive terms – Comparison test- convergence of $\sum \frac{1}{n^k}$ – D' Alembert's Ratio test. | 15 | CO1, CO2, CO3, CO4, CO5 | K2, K3, K4 |
| IV | Cauchy's Condensation test – Cauchy's Root test and their simple problems – Absolute Convergence Series– Conditional Convergence Series – Alternative Series. | 15 | CO1, CO2, CO3, CO4, CO5 | K2, K3, K4 |
| V | Binomial theorem for a rational index – Some important particular case of the Binomial expansion – Sign of terms in binomial expansion – Numerically greatest term – Method of splitting functions into partial fractions – Application of the Binomial theorem to the summation of series – Exponential limit – The exponential theorem – Summation – Logarithmic series – Modification of the logarithmic series – Summation of series – Series which can be summed up by the logarithmic series. | 15 | CO1, CO2, CO3, CO4, CO5 | K2, K3, K4 |

| | | | | |
|---|---|---|---|---|
| VI | **Self Study for Enrichment:**<br>**(Not included for End Semester Examination)**<br>Cauchy sequence - Raabe's test - Uniform Convergence- Approximate values - Euler's constant - The application of the exponential and logarithmic series to limits and approximations. | - | CO1, CO2, CO3, CO4, CO5 | K2, K3, K4 |

**Text Books**

1. Dr.S.Arumugam & Mr.A.Thangapandi Isaac(2015), Sequences and Series, New Gamma Publishing House.
2. T.K.Manicavachagam Pillai, T.Natarajan & K.S.Ganapathy (2010), Algebra, Volume I , S.Viswanathan Pvt Limited.

**Chapters and Sections**

UNIT-I Chapter III: Sections 3.0-3.6[1]

UNIT-II Chapter III: Sections 3.7-3.10[1]

UNIT-III Chapter II: Sections 8-14, 16 [2]

UNIT- IV Chapter II: Sections 15, 17, 21-24[2]

UNIT- V Chapter III: Sections 5-10 [2]

Chapter IV: Sections 1-3, 5-7, 9[2]

**Reference Books**


1. M.K. Singal and Asha Rani Singal (2018). A First course in Real Analysis. R.chand & Co.
2. Shanti Narayan, P.K.Mittal (2002). A Course of Mathematical Analysis . S.Chand & Company Ltd.
3. Dr.P.R. Vittal (2014). Allied Mathematics. Margham Publications.


**Web References**

1. **https://youtu.be/XdkoTb8PEG0?si=u_ZtB1anBe7bI0vt**
2. **https://youtu.be/BZ-LQpz5EBc?si=9H5Ydbq9amtAxUX4**
3. **https://youtu.be/zg9N2gAf6a4?si=_07ubR0LIl3GBhMU**
4. **https://youtu.be/Fjrb8f-assM?si=Hsn2y6rGxAS4AU-V**
5. **https://youtu.be/jmZIEyabJIU?si=PQB-8QllG1OGxEvv**

**Pedagogy**

Power point presentations, Group Discussions, Seminar, Quiz, Assignment.

**Course Designer**

Dr. R.Divya

**CORE COURSE - X(CC)**

**REAL ANALYSIS**

**(2024-2025 and Onwards)**

| Semester V | Internal Marks: 25 | | External Marks:75 | |
|---|---|---|---|---|
| **COURSECODE** | **COURSE TITLE** | **CATEGORY** | **HOURS / WEEK** | **CREDITS** |
| **24UMA5CC10** | **REAL ANALYSIS** | **CORE** | **5** | **4** |

## Course Objectives

- **Enable** the students to understand the basic concepts of Analysis.
- **Impart** knowledge in concepts of solving various problems regarding field axioms.
- **Construct** a proof that involves different problem solving ideas and expertise in them.

## Course Outcomes

## Course Outcome and Cognitive Level Mapping

| CO Number | CO Statement<br>On the successful completion of the course, students will be able to | Cognitive Level |
|---|---|---|
| **CO1** | Recall the basic concepts of Sequences and Series. | **K1** |
| **CO2** | Interpret the fundamental ideas in limits and functions. | **K2** |
| **CO3** | Relate the concepts of Continuity with limits. | **K3** |
| **CO4** | Determine the implementation of open sets and closed sets. | **K4** |
| **CO5** | Deduce mathematical notions in Metric Spaces. | **K5** |

## Mapping of CO with PO and PSO

| Cos | PSO1 | PSO2 | PSO3 | PSO4 | PSO5 | PO1 | PO2 | PO3 | PO4 | PO5 |
|---|---|---|---|---|---|---|---|---|---|---|
| **CO1** | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| **CO2** | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| **CO3** | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 2 | 3 | 3 |
| **CO4** | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 2 | 3 | 3 |
| **CO5** | 3 | 3 | 3 | 2 | 3 | 3 | 3 | 3 | 3 | 3 |

"1" – Slight (Low) Correlation – "2" – Moderate (Medium) Correlation –
"3" – Substantial (High) Correlation – "-" indicates there is no correlation

**Syllabus**

| UNIT | CONTENT | HOURS | COs | COGNITIVE LEVEL |
|---|---|---|---|---|
| I | **SETS AND FUNCTIONS:**<br>Operations on sets- Functions – Real-valued functions – Equivalence, Countability – Real numbers - Least upper bounds. | 15 | CO1, CO2, CO3, CO4, CO5 | K1, K2, K3, K4, K5 |
| II | **LIMITS AND METRIC SPACES:**<br>Limit of a function on the real line – Metric spaces – Limits in metric spaces. | 15 | CO1, CO2, CO3, CO4, CO5 | K1, K2, K3, K4, K5 |
| III | **CONTINUOUS FUNCTIONS ON METRIC SPACES:**<br>Functions continuous at a point on the real line – Reformulation – Functions continuous on a metric space – Open sets – Closed sets. | 15 | CO1, CO2, CO3, CO4, CO5 | K1, K2, K3, K4, K5 |
| IV | **CONTINUOUS FUNCTIONS ON METRIC SPACES:**<br>Discontinuous functions on $R^1$ .<br>**CONNECTEDNESS, COMPLETENESS AND COMPACTNESS:**<br>More about open sets – Connected sets – Bounded sets and totally bounded sets – Complete metric spaces. | 15 | CO1, CO2, CO3, CO4, CO5 | K1, K2, K3, K4, K5 |
| V | **CONNECTEDNESS, COMPLETENESS AND COMPACTNESS:**<br>Compact metric spaces – Continuous functions on compact metric spaces – Continuity of the inverse function – Uniform continuity. | 15 | CO1, CO2, CO3, CO4, CO5 | K1, K2, K3, K4, K5 |
| VI | **Self Study for Enrichment:**<br>**(Not included for End Semester Examinations)**<br>Sets and elements – Definition of a sequence and subsequence – Limit of a sequence- Convergent sequences-Divergent sequences-Monotone sequences. | - | CO1, CO2, CO3, CO4, CO5 | K1, K2, K3, K4, K5 |

**Text Books**

1. Richard R. Goldberg ( 2019), *Methods of Real Analysis*, Oxford & IBH Publishing Co. Pvt.Ltd, New Delhi.

**Chapters and Sections**

**UNIT-I** Chapter 1: Sections 1.2 - 1.7
**UNIT-II** Chapter 4: Sections 4.1 - 4.3
**UNIT-III** Chapter 5: Sections 5.1-5.5
**UNIT-IV** Chapter 5: Sections 5.6
Chapter 6: Sections 6.1 – 6.4
**UNIT-V** Chapter 6: Sections 6.5 – 6.8

**Reference Books**

1. Tom M. Apostol, (2002), *Mathematical Analysis(second edition),* Addison-Wesley Publishing Company.
2. Robert G. Bartle, Donald R. Sherbert(2007), *Introduction to Real Analysis*, John Wiley & Sons. Private Ltd.,
3. Singal M. K., Asha Rani Singal(2018), *A First Course in Real Analysis*, R. Chand & Co.

**Web References**

1. **https://youtu.be/XjiT88Czx5c?t=15**
2. **https://youtu.be/1diSwLMJpvs?t=626**
3. **https://youtu.be/YEG18ISnThE?t=4**
4. **https://youtu.be/4TzGkHFnn7g?t=3**
5. **https://youtu.be/y5tni8My-VY?t=4**

**Pedagogy**

Power point presentations, Group Discussions, Seminar, Quiz, Assignment.

**Course Designer**

Dr. S. Saridha

**CORE COURSE–XIV(CC)**

**COMPLEX ANALYSIS**

**(2024-2025 Onwards)**

| Semester VI | Internal Marks: 25 | | External Marks:75 | |
|---|---|---|---|---|
| COURSE CODE | COURSE TITLE | CATEGORY | Hrs /Week | CREDITS |
| 24UMA6CC14 | COMPLEX ANALYSIS | CORE | 6 | 5 |

## Course Objective

- **Identify** the curves and region in the complex plane defined by simple expressions.
- **Explore** the basic concepts of Complex Variables and Complex Integration
- **Evaluate** the Power Series Expansion, Singularities and Residues of the function.

## Course Outcomes

## Course Outcome and Cognitive Level Mapping

| CO Number | CO Statement On the successful completion of the course, studentswill be able to | Cognitive Level |
|---|---|---|
| CO1 | Define the continuity and differentiation of complex functions and C– R equations of analytic functions. | K1, K2 |
| CO2 | Explain the elementary transformations in Complex variables. | K2 |
| CO3 | Compute Complex Integration through Cauchy's theorem. | K3 |
| CO4 | Determine the Power series expansions in complex variables. | K4 |
| CO5 | Analyse the singularity concept and residues in complex variables. | K4 |

## Mapping of CO with PO and PSO

| Cos | PSO1 | PSO2 | PSO3 | PSO4 | PSO5 | PO1 | PO2 | PO3 | PO4 | PO5 |
|---|---|---|---|---|---|---|---|---|---|---|
| CO1 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 2 | 2 | 2 |
| CO2 | 3 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 2 | 3 |
| CO3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| CO4 | 3 | 2 | 3 | 3 | 2 | 3 | 3 | 2 | 2 | 3 |
| CO5 | 3 | 2 | 3 | 3 | 2 | 3 | 3 | 3 | 3 | 2 |

"1" – Slight (Low) Correlation – "2" – Moderate (Medium) Correlation – "3" – Substantial (High) Correlation – "-" indicates there is no correlation.

**Syllabus**

| UNIT | CONTENT | HOURS | COs | COGNITIVE LEVEL |
|---|---|---|---|---|
| I | **Analytical Functions:** Limits– Theorems on Limits-Limits Involving the Point at Infinity – Continuity – Derivatives – Cauchy-Riemann Equations – Examples – Sufficient Conditions for Differentiability – Polar Coordinates - Analytic Functions – Further Examples - Harmonic functions. | 18 | CO1, CO2, CO3, CO4, CO5 | K1, K2, K3, K4 |
| II | **Integrals:** Definite Integrals of Functions *w(t)* – Contours – Cauchy- Goursat Theorem – Proof of the Theorem – Simply Connected Domains – Multiply Connected Domain – Cauchy Integral Formula – An Extension of the Cauchy Integral Formula – Some Consequences of the Extension – Liouville's Theorem and the Fundamental Theorem of Algebra – Maximum Modulus Principle. | 18 | CO1, CO2, CO3, CO4, CO5 | K1, K2, K3, K4 |
| III | **Series:** Convergence of Sequences – Convergence of Series – Taylor's Series – Proof ofTaylor's Theorem – Examples – Laurent Series – Proof of Laurent's Theorem – Examples. **Mapping by Elementary Functions :** Linear Transformations – The Transformation $w=1/z$ – Mappings by $1/z$ – Linear Fractional Transformations – An Implicit Form – Mappings by the Exponential Function – Mapping Vertical Line Segments by $w = Sin\ z$ – Mapping Horizontal Line Segments by $w = Sin\ z$ – Some related Mappings. | 18 | CO1, CO2, CO3, CO4, CO5 | K1, K2, K3, K4 |
| IV | **Residues and Poles:** Isolated Singular Points – Residues – Cauchy's Residue Theorem – Residue at infinity – The Three Types of Isolated Singular Points – Residues at Poles – Examples – Zeros of Analytic Functions – Zeros and Poles – Behaviour of Functions Near Isolated Singular Points. | 18 | CO1, CO2, CO3, CO4, CO5 | K1, K2, K3, K4 |
| V | **Applications of Residues:** Evaluation of Improper Integrals – Example – Improper Integrals from Fourier Analysis – Jordan's Lemma – Indented Paths – An Indentation Around a Branch Point –Definite Integrals Involving Sines and Cosines – Argument Principle – Rouche's Theorem. | 18 | CO1, CO2, CO3, CO4, CO5 | K1, K2, K3, K4 |
| VI | **Self Study for Enrichment:** **(Not included for End Semester Examination)** Uniquely determined analytic functions – Upper bounds for Moduli of contour integrals – Mappings of the | - | CO1, CO2, CO3, CO4, | K1, K2, K3, K4 |

| | | | | |
|---|---|---|---|---|
| | Upper Half Plane –The Transformation $w = Sin\ z$ – Mappings by $z^2$ and Branches of $z^{1/2}$.– Inverse Laplace transforms – Integration Along a Branch Cut | | CO5 | |

**Text Book**

1. James Ward Brown and Ruel V. Churchill , (2021). Complex Variables and Applications, McGraw Hill Education (India) Private Limited, Ninth Edition.

**Chapters and Sections**

| | | |
|---|---|---|
| UNIT-I | Chapter 2 | Sections 15 - 19, 21 - 27 |
| UNIT-II | Chapter 4 | Sections 42, 43, 50-55, 57-59 |
| UNIT-III | Chapter 5 and 8 | Sections 60– 64, 66-68, 96-100, 103-106 |
| UNIT-IV | Chapter 6 | Sections 74 – 78, 80 – 84 |
| UNIT-V | Chapter 7 | Sections 85 – 90, 92 – 94 |

**Reference Books**


1. S. Arumugam, A. Thangapandi Isaac & A. Somasundaram. (2014), ComplexAnalysis , Scitech Publications (India) Pvt Ltd
2. T.K. ManicavachagamPillai, Dr.S.P.Rajagoplan and Dr.R.Sattanathan (2013), Complex Analysis, S. Viswanathan (Printers & Publishers) Pvt Ltd, Chennai.
3. P Duraipandian, , KayalalPachaiyappa (2014),. ComplexAnalysis, S. Chand & companyPvt. Ltd, First Edition,New Delhi.


**Web References**

1. **https://www.youtube.com/watch?v=b5VUnapu-qs**
2. **https://www.youtube.com/watch?v=2v95JHiapxU**
3. **https://www.youtube.com/watch?v=WBvRL-QCEN8**
4. **https://www.youtube.com/watch?v=qjpLIlVo_6E**
5. **https://www.youtube.com/watch?v=o77UV7YrWvw/**

**Pedagogy**

Power Point Presentation, Group Discussion, Seminar, Assignment.

**Course Designer**

Dr.P.SARANYA

# ANNEXURE H

**CAUVERY COLLEGE FOR WOMEN (AUTONOMOUS)**
**Nationally Accredited (IV Cycle) with A+ Grade by NAAC**
**Annamalai Nagar, Tiruchirappalli -18.**

**MINUTES OF THE BOARD OF STUDIES MEETING OF PG & RESEARCH DEPARTMENT OF PHYSICS, CAUVERY COLLEGE FOR WOMEN (AUTONOMOUS) HELD ON 03.04.2025, 2.00 pm.**

The following members attended the meeting:

| | | |
|---|---|---|
| 1. | Dr.G.Maheswari | Chairperson & Head |
| 2. | Dr.S.Gowri | Member |
| 3. | Dr.R.Gayathri | Member |
| 4. | Dr.R.Meenakshi | Member |
| 5. | Dr.S.Priya | Member |
| 6. | Dr.D.Devi | Member |
| 7. | Dr.A.MaryGirija | Member |
| 8. | Dr.K.Kannagi | Member |
| 9. | Dr.T.Noorunnisha | Member |
| 10. | Dr.R.Mekala | Member |
| 11. | Ms R.Sona | Student |
| 12. | Ms M.Kaviya | Student |

The leave of absence was granted to Dr.R.Mekala.

**The Agenda for the meeting is as follows:**

**ITEM NO: BOS/12/25/01**

To consider and approve the introduction of new courses AECC - IV and GEC - I in Semester III of B.Sc. Physics for 2024 - 2025 batch and onwards and recommend to the Academic Council, Cauvery College for Women (Autonomous), Tiruchirappalli, with the following changes for

- AECC - IV - Health and Wellness with 1 Credit is introduced with Course Code 24UGHW
- GEC - I - Introduction to NCC is introduced with Course Code 24UNC3GEC1 as one of the Elective Course

**ITEM NO: BOS/12/25/02**

To consider and approve the introduction of new course GEC-II in Semester IV and ratification of Credits of CP – IV of B.Sc. Physics for 2024 - 2025 batch and onwards and recommend to the Academic Council, Cauvery College for Women (Autonomous), Tiruchirappalli, with the following changes for

- GEC - II - Specialization in Army is introduced with Course Code 24UNC4GEC2 as one of the Elective Course
- Credits of CP - IV - Electricity and Magnetism (P) is changed as 3 with Course Code 24UPH4CC4P

**ITEM NO: BOS/12/25/03**

To consider and approve the shifting and changes in the duration of Internship, Evaluation of Internship in Semester V of B.Sc. Physics for 2024 - 2025 batch and onwards and recommend to the Academic Council, Cauvery College for Women (Autonomous), Tiruchirappalli, with the following changes for

- The duration of the internship has been changed from 15 days to 30 days, and it is shifted from Semester III holidays to Semester IV holidays.
- Internship is evaluated in Semester V with the Course Code 24UPH5INT.

**ITEM NO: BOS/12/25/04**

To consider and approve the ratification of credits and hours of CC -X - Classical and Quantum Physics and Project - Project Work in Semester VI of B.Sc. Physics for 2024 - 2025 batch and onwards and recommend to the Academic Council, Cauvery College for Women (Autonomous), Tiruchirappalli, with the following changes for

- Credits and hours of CC- X - Classical and Quantum Physics changed as 5 credits and 6 hours with Course Code of 24UPH6CC10
- Credits and hours of Project - Project Work changed as 3 credits and 4 hours with Course Code of 24UPH6PW

Dr.G. Maheswari, Chairperson, Head, PG & Research Department of Physics extended the warm welcome to the members. Discussions based on the agenda were carried out.

**RESOLUTION NO: BOS/12/25/01**

Considered and approved the introduction of new courses AECC - IV and GEC - I in Semester III of B.Sc. Physics for 2024 - 2025 batch and onwards and recommend to the Academic Council, Cauvery College for Women (Autonomous), Tiruchirappalli.

- AECC - IV - Health and Wellness with 1 Credit is introduced with Course Code 24UGHW
- GEC - I - Introduction to NCC is introduced with Course Code 24UNC3GEC1 as one of the Elective Course

**RESOLUTION NO: BOS/12/25/02**

Considered and approved the introduction of new course GEC-II in Semester IV and ratification of Credits of CP – IV of B.Sc. Physics for 2024 - 2025 batch and onwards and recommend to the Academic Council, Cauvery College for Women (Autonomous), Tiruchirappalli.

- Credits of CP - IV - Electricity and Magnetism (P) is changed as 3 with Course Code 24UPH4CC4P
- GEC - II - Specialization in Army is introduced with Course Code 24UNC4GEC2 as one of the Elective Course

**RESOLUTION NO: BOS/12/25/03**

Considered and approved the shifting and changes in the duration of Internship, Evaluation of Internship in Semester V of B.Sc. Physics for 2024 - 2025 batch and onwards and recommend to the Academic Council, Cauvery College for Women (Autonomous), Tiruchirappalli.

- The duration of the internship has been changed from 15 days to 30 days, and it is shifted from Semester III holidays to Semester IV holidays.
- Internship is evaluated in Semester V with the Course Code 24UPH5INT.

**RESOLUTION NO: BOS/12/25/04**

Considered and approved the ratification of credits and hours of CC -X - Classical and Quantum Physics and Project - Project Work in Semester VI of B.Sc. Physics for 2024 - 2025 batch and onwards and recommend to the Academic Council, Cauvery College for Women (Autonomous), Tiruchirappalli.

- Credits and hours of CC- X - Classical and Quantum Physics changed as 5 credits and 6 hours with Course Code of 24UPH6CC10
- Credits and hours of Project - Project Work changed as 3 credits and 4 hours with Course Code of 24UPH6PW

# CAUVERY COLLEGE FOR WOMEN (AUTONOMOUS)
## PG & RESEARCH DEPARTMENT OF PHYSICS
## B.SC PHYSICS
## LEARNING OUTCOME BASED CURRICULUM FRAMEWORK (CBCS - LOCF)
**(For the Candidates admitted from the Academic year 2024-2025 and onwards)**

| Semester | Part | Course | Course Title | Course Code | Inst. Hrs./ | Credits | Exam | | | Total |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | Hrs. | Marks | | |
| | | | | | | | | Int | Ext | |
| I | I | Language Course-I (LC) | பொதுத்தமிழ் – I | 23ULT1 | 6 | 3 | 3 | 25 | 75 | 100 |
| | | | Hindi ka Samanya Gyan aur Nibandh | 23ULH1 | | | | | | |
| | | | Poetry, Grammar and History of Sanskrit Literature | 23ULS1 | | | | | | |
| | | | Foundation Course: Paper I- French I | 23ULF1 | | | | | | |
| | II | English Language Course- I(ELC) | General English –I | 23UE1 | 6 | 3 | 3 | 25 | 75 | 100 |
| | III | Core Course – I(CC) | Properties of Matter and Acoustics | 23UPH1CC1 | 5 | 5 | 3 | 25 | 75 | 100 |
| | | Core Practical - I (CP) | Properties of Matter and Acoustics (P) | 23UPH1CC1P | 3 | 3 | 3 | 40 | 60 | 100 |
| | | First Allied Course- I (AC) | Calculus and Fourier Series | 22UPH1AC1 | 4 | 3 | 3 | 25 | 75 | 100 |
| | | First Allied Course- II (AC) | Algebra, Analytical Geometry of 3D & Trigonometry | 22UPH1AC2 | 4 | 3 | 3 | 25 | 75 | 100 |
| | IV | Ability Enhancement Compulsory Course-I (AECC) | Value Education | 23UGVE | 2 | 2 | - | 100 | - | 100 |
| | **Total** | | | | **30** | **22** | | | | **700** |
| II | I | Language Course-II(LC) | பொதுத்தமிழ் – II | 23ULT2 | 6 | 3 | 3 | 25 | 75 | 100 |
| | | | Hindi Literature & Grammar –II | 22ULH2 | | | | | | |
| | | | Prose, Grammar and History of Sanskrit Literature | 23ULS2 | | | | | | |
| | | | Basic French – II | 22ULF2 | | | | | | |
| | II | English Language Course-II(ELC) | General English – II | 23UE2 | 6 | 3 | 3 | 25 | 75 | 100 |
| | III | Core Course – II (CC) | Mechanics andRelativity | 22UPH2CC2 | 5 | 5 | 3 | 25 | 75 | 100 |
| | | Core Practical - II (CP) | Mechanics and Digital Electronics (P) | 23UPH2CC2P | 3 | 3 | 3 | 40 | 60 | 100 |
| | | Core Course-III(CC) | Introduction to Digital Electronics | 23UPH2CC3 | 2 | 2 | 3 | 25 | 75 | 100 |
| | | First Allied Course – III (AC) | ODE, PDE, Laplace Transforms and Vector Analysis | 22UPH2AC3 | 4 | 3 | 3 | 25 | 75 | 100 |
| | | Ability Enhancement Compulsory Course-II (AECC) | Environmental Studies | 22UGEVS | 2 | 2 | - | 100 | - | 100 |
| | IV | Ability Enhancement Compulsory Course-III (AECC) | Innovation and Entrepreneurship | 22UGIE | 2 | 1 | - | 100 | - | 100 |
| | Extra Credit Course | | SWAYAM | | As per UGC Recommendation | | | | | |
| | **Total** | | | | **30** | **22** | | | | **800** |

| Semester | Part | Course | Course Title | Course Code | Inst. Hrs. / Week | Credits | Exam | | | Total |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | Hrs. | Marks | | |
| | | | | | | | | Int | Ext | |
| III | I | Language Course-III (LC) | பொதுத்தமிழ் – III | 23ULT3 | 6 | 3 | 3 | 25 | 75 | 100 |
| | | | Hindi Literature & Grammar –III | 22ULH3 | | | | | | |
| | | | Drama, Grammar andHistory of Sanskrit Literature | 23ULS3 | | | | | | |
| | | | Intermediate French-I | 22ULF3 | | | | | | |
| | II | English Language Course-III(ELC) | Learning Grammar Through Literature – I | 23UE3 | 6 | 3 | 3 | 25 | 75 | 100 |
| | III | Core Course– IV (CC) | Thermal Physics and Statistical Mechanics | 23UPH3CC4 | 5 | 5 | 3 | 25 | 75 | 100 |
| | | Core Practical – III (CP) | Thermal Physics (P) | 23UPH3CC3P | 3 | 3 | 3 | 40 | 60 | 100 |
| | | Second Allied Course-I (AC) | Chemistry – I | 22UPH3AC4 | 4 | 3 | 3 | 25 | 75 | 100 |
| | | Second Allied Course- II (AP) | Chemistry-I (P) | 22UPH3AC5P | 4 | 3 | 3 | 40 | 60 | 100 |
| | IV | Ability Enhancement Compulsory Course-IV (AECC) | Health and Wellness | 24UGHW | 2* | 1 | - | 100 | - | 100 |
| | | Generic Elective Course- I (GEC) | Physics in Everyday Life | 22UPH3GEC1 | 2 | 2 | 3 | 25 | 75 | 100 |
| | | | Introduction to NCC@ | 24UNC3GEC1 | | | | | | |
| | | | Basic Tamil – I | 22ULC3BT1 | | | | | | |
| | | | Special Tamil – I | 22ULC3ST1 | | | | | | |
| | Extra Credit Course | | SWAYAM | | As per UGC Recommendation | | | | | |
| | | | **Total** | | **30** | **23** | | | | **800** |
| IV | I | Language Course - IV (LC) | பொதுத்தமிழ்– IV | 23ULT4 | 6 | 3 | 3 | 25 | 75 | 100 |
| | | | Hindi Literature & Functional Hindi | 22ULH4 | | | | | | |
| | | | Alankara, Didactic and Modern Literatures and Translation | 23ULS4 | | | | | | |
| | | | Intermediate French –II | 22ULF4 | | | | | | |
| | II | English Language Course – IV (ELC) | Learning Grammar Through Literature– II | 23UE4 | 6 | 3 | 3 | 25 | 75 | 100 |
| | III | Core Course – V(CC) | Electricity, Magnetism and Electromagnetism | 23UPH4CC5 | 6 | 5 | 3 | 25 | 75 | 100 |
| | | Core Practical - IV(CP) | Electricity andMagnetism (P) | 24UPH4CC4P | 4 | 3 | 3 | 40 | 60 | 100 |
| | | Second Allied Course- III (AC) | Chemistry – II | 22UPH4AC6 | 4 | 3 | 3 | 25 | 75 | 100 |
| | IV | Generic Elective Course- II (GEC) | Photography and Videography | 22UPH4GEC2 | 2 | 2 | 3 | 25 | 75 | 100 |
| | | | Specialization in Army@ | 24UNC4GEC2 | | | | | | |
| | | | Basic Tamil – II | 22ULC4BT2 | | | | | | |
| | | | Special Tamil – II | 22ULC4ST2 | | | | | | |
| | | Skill Enhancement Course – I (SEC) | Web Designing (P) | 22UPH4SEC1P | 2 | 2 | 3 | 40 | 60 | 100 |
| | | Extra Credit Course | SWAYAM | | As per UGC Recommendation | | | | | |
| | | **Total** | | | **30** | **21** | | | | **700** |

**30 Days INTERNSHIP during Semester Holidays**

| Semester | Part | Course | Course Title | Course Code | Inst. Hrs. /week | Credits | Exam | | | Total |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | Hrs. | Marks | | |
| | | | | | | | | Int | Ext | |
| V | III | Core Course – VI (CC) | Optics | 23UPH5CC6 | 6 | 5 | 3 | 25 | 75 | 100 |
| | | Core Practical – V (CP) | General and Electronics (P) | 22UPH5CC5P | 3 | 3 | 3 | 40 | 60 | 100 |
| | | Core Course – VII (CC) | Atomic and Nuclear Physics | 23UPH5CC7 | 6 | 5 | 3 | 25 | 75 | 100 |
| | | Core Course – VIII (CC) | Analog Electronics | 23UPH5CC8 | 6 | 5 | 3 | 25 | 75 | 100 |
| | | Internship | Internship | 24UPH5INT | - | 2 | - | - | - | 100 |
| | | Discipline Specific Elective – I (DSE) | A. Materials Science | 23UPH5DSE1A | 5 | 3 | 3 | 25 | 75 | 100 |
| | | | B. Laser Physics | 23UPH5DSE1B | | | | | | |
| | | | C. Astrophysics and Cosmology | 23UPH5DSE1C | | | | | | |
| | IV | Ability Enhancement Compulsory Course-V(AECC) | UGC Jeevan Kaushal - Professional Skills | 22UGPS | 2 | 2 | - | 100 | - | 100 |
| | | Skill Enhancement Course – II (SEC) | Physics concepts through Animation (P) | 22UPH5SEC2P | 2 | 2 | 3 | 40 | 60 | 100 |
| | | **Total** | | | **30** | **27** | | | | **800** |
| VI | III | Core Course – IX (CC) | Fundamentals of Microprocessor | 23UPH6CC9 | 6 | 5 | 3 | 25 | 75 | 100 |
| | | Core Course – X (CC) | Classical and Quantum Physics | 24UPH6CC10 | 6 | 5 | 3 | 25 | 75 | 100 |
| | | Core Course – XI (CC) | Cyber Security | 22UGCS | 5 | 4 | 3 | 25 | 75 | 100 |
| | | Core Practical –VI (CP) | Electronics and Microprocessor (P) | 22UPH6CC6P | 3 | 3 | 3 | 40 | 60 | 100 |
| | | Discipline Specific Elective – II (DSE) | A. Communication Physics | 23UPH6DSE2A | 5 | 3 | 3 | 25 | 75 | 100 |
| | | | B. Computational Physics | 23UPH6DSE2B | | | | | | |
| | | | C. Medical Physics | 23UPH6DSE2C | | | | | | |
| | | Project | Project Work | 24UPH6PW | 4 | 3 | - | - | 100 | 100 |
| | V | Ability Enhancement Compulsory Course-VI (AECC) | Gender Studies | 22UGGS | 1 | 1 | - | 100 | - | 100 |
| | | Extension activity | | 22UGEA | - | 1 | - | - | - | - |
| | | | | **Total** | **30** | **25** | | | | **700** |
| | | | | **Grand Total** | **180** | **140** | | | | **4500** |

- **@ NCC is one of the choices in GEC. Only the NCC cadets are eligible to chooses this course. However, NCC Course is not a Compulsory Course for the NCC Cadets. If the Cadet has not studied Tamil in the school level, she has to take Basic Tamil Course.**
- *** Health and Wellness shall be outside instruction hours**

**PG & RESEARCH DEPARTMENT OF PHYSICS**
**B.Sc. PHYSICS**

**LEARNING OUTCOME BASED CURRICULUM FRAMEWORK (CBCS - LOCF)**
**(For the Candidates admitted from the Academic year 2024-2025 and onwards)**

Curriculum Structure

## Courses & Credits for B.Sc PHYSICS

| Part | Course | No. of Courses | Hours/ Course | Credits | Total Credits |
|---|---|---|---|---|---|
| I | Tamil/ Other Language | 4 | 6 | 12 | 12 |
| II | English | 4 | 6 | 12 | 12 |
| III | Core (Theory)<br>Core (Practical)<br>CC/CP-III<br>Cyber Security | 9<br>6<br>1<br>1 | 5/6<br>3/4<br>2<br>5 | 9*5=45<br>6*3=18<br>1*2=2<br>1*4=4 | **98** |
| | Project Work | 1 | 4 | 3 | |
| | Internship | 1 | - | 2 | |
| | First Allied | 3 | ¾ | 3*3=9 | |
| | Second Allied | 3 | ¾ | 3*3=9 | |
| | DSE | 2 | 5 | 2*3=6 | |
| IV | GEC | 2 | 2 | 2*2=4 | 17 |
| | SEC | 2 | 2 | 2*2=4 | |
| | AECC-I -Universal Human Values | 1 | 2 | 2 | |
| | AECC-II-Environmental Studies | 1 | 2 | 2 | |
| | AECC-III-Innovation and Entrepreneurship | 1 | 2 | 1 | |
| | AECC-IV- Health and Wellness | 1 | - | 1 | |
| | AECC-V Professional Skills | 1 | 2 | 2 | |
| | AECC-VI Gender Studies | 1 | 1 | 1 | |
| V | Extension Activities | 0 | - | 1 | 01 |
| | | **45** | | 140 | **140** |

| Semester IV | Internal Marks: 40 | | | External Marks: 60 |
|---|---|---|---|---|
| **COURSE CODE** | **COURSE TITLE** | **CATEGORY** | **HRS/WEEK** | **CREDITS** |
| **24UPH4CC4P** | **ELECTRICITY AND MAGNETISM (P)** | **CP – IV** | **4** | **3** |

## Course Objectives

- To develop practical knowledge of Electricity and Magnetism
- To enhance the experimental skills.
- To gain hands-on experience with a variety of techniques.
- To learn the basic principles and procedures of laboratory work.

## Pre-requisites

- Basic knowledge on usage of scientific apparatus.
- Basic Physics principle in Electricity and Magnetism
- Understanding on circuit connection.

## Course Outcome and Cognitive Level Mapping

| CO Number | CO Statement<br>On the successful completion of the Course, the Students will be able to | Cognitive Level |
|---|---|---|
| **CO 1** | Apply the physics principle involved in the various instruments and also relate the principles to new application. | K1, K2 |
| **CO 2** | Apply experimental approaches to correlate with physics theory to develop practical understanding. | K2, K3 |
| **CO 3** | Relate the concept of electricity to a real time applications | K4 |
| **CO 4** | Demonstrate knowledge and understanding of experiments in Electricity and Magnetism | K5 |
| **CO 5** | Design and develop circuits which enhance the existing scientific knowledge. | K5 |

## Mapping of CO with PO and PSO

| Cos | PSO1 | PSO2 | PSO3 | PSO4 | PSO5 | PO 1 | PO 2 | PO 3 | PO 4 | PO 5 |
|---|---|---|---|---|---|---|---|---|---|---|
| **CO1** | 1 | 2 | 1 | 2 | 1 | 3 | 2 | 1 | 2 | 1 |
| **CO2** | 2 | 3 | 2 | 2 | 2 | 2 | 3 | 2 | 2 | 2 |
| **CO3** | 2 | 1 | 2 | 3 | 1 | 3 | 2 | 1 | 3 | 1 |
| **CO4** | 2 | 2 | 3 | 3 | 2 | 2 | 3 | 1 | 2 | 2 |
| **CO5** | 3 | 2 | 3 | 3 | 3 | 1 | 3 | 2 | 3 | 3 |

"1" – Slight (Low) Correlation
"2" – Moderate (Medium) Correlation
"3" – Substantial (High) Correlation
"-" – indicates there is no correlation

## Syllabus

### LIST OF EXPERIMENTS (Any 8)

1. Post Office Box – Temperature coefficient.
2. Carey Foster's Bridge – Specific Resistance.
3. Potentiometer – Temperature coefficient of a coil.
4. Potentiometer – High range voltmeter calibration.
5. Series resonance circuit.
6. Parallel resonance circuit.
7. Ballistic Galvanometer – Figure of merit.
8. B.G. – Absolute capacity of condenser.
9. Deflection and Vibration magnetometer- Determination of M and H
10. Field along the axis of a coil – Determination of M.
11. Potentiometer – Ammeter calibration.
12. Meter Bridge – Specific Resistance.

## Text Book


1. Ouseph,C.C., Rao,U.J., Vijayendran,V., (2016). *Practical Physics and Electronics*. S.Viswanathan, Printers & Publishers Pvt Ltd., Chennai.


## Reference Book


1. Prof.Namboodirippad M.N., Prof.Daniel,P.A.,(1982).*B.Sc.,PracticalPhysics*. G.B.C.Publications, Cochin.


## Web References

1. https://vlab.amrita.edu/index.php?sub=1&brch=192
2. https://vlab.amrita.edu/index.php?sub=1&brch=192&sim=972&cnt=1
3. https://vlab.amrita.edu/index.php?sub=1&brch=192&sim=346&cnt=1

## Pedagogy

Demonstration, Practical sessions and Viva-voce.

## Course Designer


Dr. D.Devi

| Semester VI | Internal Marks: 25 | | | External Marks: 75 |
|---|---|---|---|---|
| **COURSE CODE** | **COURSE TITLE** | **CATEGORY** | **HRS/WEEK** | **CREDITS** |
| **24UPH6CC10** | **CLASSICAL AND QUANTUM PHYSICS** | **CC-X** | **6** | **5** |

**Course Objectives**

- To expose the fundamentals of Theoretical Physics.
- To provide the knowledge of the applications in Quantum Physics.
- To list the fundamental principles of D'Alembert and Hamiltonian principles.
- To apply the Schrodinger's wave equation.

**Pre-Requisites**

- Understand the fundamental Principles of Classical mechanics.
- Apply the concepts of wave mechanics.
- Represent the quantum theories.
- Study the applications of Quantum mechanics.

**Course Outcome and Cognitive Level Mapping**

| CO Number | CO Statement<br>On the successful completion of the Course, the Student will be able to, | Cognitive Level |
|---|---|---|
| **CO1** | Understand the fundamental principles of classical mechanics. | K1 |
| **CO2** | Understand the Hamilton's formulation. | K1 |
| **CO3** | Learn the classical concepts and explain the De Broglie's matter waves. | K2 |
| **CO4** | Identify the basic principles of Quantum mechanics. | K3 |
| **CO5** | Develop the knowledge about solvable quantum states. | K4 |

**Mapping of CO with PO and PSO**

| Cos | PSO1 | PSO2 | PSO3 | PSO4 | PSO5 | PO1 | PO2 | PO3 | PO4 | PO5 |
|---|---|---|---|---|---|---|---|---|---|---|
| **CO1** | 3 | 2 | 3 | 3 | 3 | 3 | 2 | 3 | 2 | 3 |
| **CO2** | 3 | 2 | 3 | 3 | 2 | 3 | 2 | 3 | 2 | 3 |
| **CO3** | 3 | 2 | 2 | 3 | 2 | 3 | 3 | 3 | 3 | 3 |
| **CO4** | 3 | 3 | 2 | 2 | 3 | 3 | 3 | 2 | 2 | 3 |
| **CO5** | 3 | 3 | 2 | 2 | 3 | 3 | 3 | 2 | 2 | 3 |

"1" – Slight (Low) Correlation "2" – Moderate (Medium) Correlation
"3" – Substantial (High) Correlation "-" indicates there is no correlation

**Syllabus**

| UNIT | CONTENT | HOURS | Cos | COGNITIVE LEVEL |
|---|---|---|---|---|
| I | **ELEMENTARY PRINCIPLES OF CLASSICAL MECHANICS** Newtonian mechanics: Conservation laws for a single particle and a system of particles –Degrees of freedom – Types of constraints – Generalized coordinates – D'Alembert's principle and Lagrange's equation of motion – Procedure for formation of Lagrange's equations – Applications to: (a) Compound Pendulum (b) Atwood's machine and (c) Simple Pendulum. | 18 | CO1, CO2, CO3, CO4, CO5 | K1, K2, K3, K4, K5 |
| II | **HAMILTONIAN FORMALISM** Variational principle and derivation of Hamilton's equation of motion –Principle of leastaction – Phase space – cyclic coordinates – conservation theorems: generalized momentum and Energy – Examples in Hamiltonian Dynamics: (a) Harmonic Oscillator (b) Motion of a particle in a central force field. | 18 | CO1, CO2, CO3, CO4, CO5 | K1, K2, K3, K4, K5 |
| III | **GENESIS OF QUANTUM TRANSITION** Inadequacy of classical concepts: Black body radiation - Planck's hypothesis – Photoelectric effect – Compton effect – de Broglie's hypothesis – matter waves – Expression for Phase velocity and group velocity – Relation between Phase velocity andgroup velocity – Experimental evidences for de Broglie's matter waves: Davison and Germer experiment – G.P. Thomon's experiment – Heisenberg's uncertainty Principle – Electron microscope – Gamma ray microscope. | 18 | CO1, CO2, CO3, CO4, CO5 | K1, K2, K3, K4, K5 |
| IV | **BASICS OF QUANTUM MECHANICS** Basic postulates of quantum mechanics – Development of Schrödinger wave equation –Time Independent and Dependent forms of equations – Properties of wave function – Orthogonal and normalized wave function – Eigen function and Eigen values – Expectation values and Ehrenfest's theorem. | 18 | CO1, CO2, CO3, CO4, CO5 | K1, K2, K3, K4, K5 |
| V | **EXACTLY SOLVABLE SYSTEMS** Free particle - Linear harmonic oscillator – Particle in a box –The barrier penetration problem – Tunnel effect – Rectangular Potential Well – Rigid rotator. | 18 | CO1, CO2, CO3, CO4, CO5 | K1, K2, K3, K4, K5 |
| VI | **SELF STUDY FOR ENRICHMENT (Not to be included for External Examination)** Lagrangian and Hamiltonian Formulation of relativistic mechanics - Theory of smalloscillations – Normal modes of oscillations and frequencies (frequencies) - $CO_2$ as linear symmetrical molecule, its normal frequencies and its normal modes. | - | CO1, CO2, CO3, CO4, CO5 | K1, K2, K3, K4, K5 |

## Text Books


1. Murughesan R, (2016), *Modern Physics*, (Revised Edition), S. Chand & Company Ltd, NewDelhi.
2. Upadhyaya J.C, (2019), Classical Mechanics, (Revised Edition), Himalaya Publishing House, NewDelhi.
3. Gupta S L, Kumar V and Sharma H V, (2012), *Classical Mechanics*, (Revised Edition) S. Chand& Company Ltd, New Delhi.
4. Goldstein H, (2011), *Classical Mechanics*, (3rd edition) Narosa Book distributors, New Delhi.
5. Sathya Prakash, (2007), *Quantum Mechanics*, (Revised Edition), Pragathi Prakashan, Meerut.
6. Mathew P M and Venkatesan K, (1987), *A Text Book of Quantum Mechanics*, Tata McGrawHill, New Delhi.


## Reference Books


1. Aruldhas G, (2008), *Classical Mechanics*, (Revised Edition), PHI Publisher, New Delhi.
2. Mathews P M and Venkatesan K, (1987), *A Text Book of Quantum Mechanics*, (Revised Edition)Tata McGraw Hill, New Delhi,
3. Ajoy Ghotak and Loganathan S, (1999), *Quantum Mechanics: Theory and Applications*, (6th Edition) McGraw Hill, New Delhi.


## Web References

1. **https://onlinecourses.nptel.ac.in/noc20_ph17/preview**
2. **https://onlinecourses.nptel.ac.in/noc24_ph15/preview**

## Pedagogy

Chalk and Talk, Seminars, Power Point Presentation, Quiz, Assignment and Group discussion.

## Course Designer

Dr. A.Mary Girija

# ANNEXURE I

**CAUVERY COLLEGE FOR WOMEN (AUTONOMOUS)**
**Nationally Accredited (IV Cycle) with A+ Grade by NAAC**
**Annamalai Nagar, Tiruchirappalli**
**PG & RESEARCH DEPARTMENT OF CHEMISTRY**
**Agenda for the XII BoS Meeting**

**DATE : 03.04.2025**
**VENUE : B 42**
**TIME : 10:00 am**

**The agenda for the meeting is as follows:**

**ITEM NO: BOS/25/12/01**

To consider and to approve the introduction of AECC-IV in III Semester of B.Sc., Chemistry for 2024-2025 batch and onwards and recommend to the Academic Council, Cauvery College for Women (Autonomous), Trichy.

**ITEM NO: BOS/25/12/02**

To consider and to approve the ratification in the options of Generic Elective Course I and II of III and IV Semester syllabus of B.Sc., Chemistry for 2024-2025 batch and onwards and recommend to the Academic Council, Cauvery College for Women (Autonomous), Trichy.

**ITEM NO: BOS/25/12/03**

To consider and to approve the ratification in the credit of Core Practical IV in semester IV of B.Sc., Chemistry for 2024-2025 batch and onwards and recommend to the Academic Council, Cauvery College for Women (Autonomous), Trichy.

**ITEM NO: BOS/25/12/04**

To consider and to approve the shifting and changes in the duration of Internship. Evaluation of Internship in Semester V of B.Sc., Chemistry for 2024-2025 batch and onwards and recommend to the Academic Council, Cauvery College for Women (Autonomous), Trichy.

**ITEM NO: BOS/25/12/05**

To consider and to approve the ratification in the Hours and Syllabus of Core Course -IX, Credits of Core Course X and Hours and Credits of Project Work in the VI Semester of B.Sc., Chemistry for 2024-2025 batch and onwards and recommend to the Academic Council, Cauvery College for Women (Autonomous), Trichy.

**ITEM NO: BOS/25/12/06**

To consider and to approve the ratification in the I Semester Core Course II syllabus of M.Sc., Chemistry for 2025-2026 batch and onwards and recommend to the Academic Council, Cauvery College for Women (Autonomous), Trichy.

**CAUVERY COLLEGE FOR WOMEN (AUTONOMOUS)**
**Nationally Accredited (IV Cycle) with A+ Grade by NAAC**
**Annamalai Nagar, Tiruchirappalli**
**PG & RESEARCH DEPARTMENT OF CHEMISTRY**
**MINUTES OF THE XII BOS MEETING**

**DATE : 03.04.2025**
**VENUE: B 42**
**TIME : 10.00 a.m.**

**Members Present:**

| | | |
|---|---|---|
| 1. | Dr. P. Pungayee Alias Amirtham | Chairperson & Head |
| 2. | Dr. G. Sivasankari | Member |
| 3. | Dr. A. Sharmila | Member |
| 4. | Dr. P. Thamizhini | Member |
| 5. | Dr. V. Sangu | Member |
| 6. | Dr. C. Rajarajeswari | Member |
| 7. | Dr. R. Subha | Member |
| 8. | Dr. K. Uma Sivakami | Member |
| 9. | Dr. S. Devi | Member |
| 10. | Dr. N. Anusuya | Member |

## ACTION TAKEN REPORT OF THE BOS HELD ON 17.10.2024

The BoS Meeting was held on 17.10.2024 at 2:00 p.m. The Chairman of the BoS read the minutes of the meeting and the following Resolutions were confirmed.

- Ratification of the credits and course code of CC-VI, CC-VII CC-VIII and DSE-I OF Semester V and CC-X, CP-VI and DSE-II of Semester VI for B.Sc., Chemistry for 2023-2024 batch and onwards.
- Ratification in the syllabus of Core Course VI of Semester V of B.Sc., Chemistry for 2023-2024 batch and onwards
- Ratification in II Semester Core Practical II and Core Practical III syllabus of M.Sc., Chemistry for 2024- 2025 batch and onwards

## MINUTES OF THE XII MEETING OF THE BOS HELD ON 03.04.2025

**RESOLUTION No. BOS/25/12/01**

To consider and to approve the introduction of AECC -IV in III Semester of B.Sc., Chemistry for 2024-2025 batch and onwards and recommend to the Academic Council, Cauvery College for Women (Autonomous), Trichy.

**III SEMESTER OF 2024-2025 BATCH AND ONWARDS**

**Ability Enhancement Compulsory Course IV**

Health and Wellness with credit 1 has been introduced as AECC -IV with Course Code 24UGHW

**Resolved to approve the introduction of AECC -IV in III Semester of B.Sc., Chemistry for 2024-2025 batch and onwards and recommend to the Academic Council, Cauvery College for Women (Autonomous), Trichy.**

**RESOLUTION No. BOS/25/12/02**

To consider and to approve the ratification in the options of Generic Elective Course I and II of III and IV Semester syllabus of B.Sc., Chemistry for 2024-2025 batch and onwards and recommend to the Academic Council, Cauvery College for Women (Autonomous), Trichy.

**III SEMESTER OF 2024-2025 BATCH AND ONWARDS**

**Generic Elective Course -I**

Introduction to NCC @ with course code 24UNC3GEC1 has been introduced as an GEC-I for NCC candidates.

**IV SEMESTER OF 2024-2025 BATCH AND ONWARDS**

**Generic Elective Course -II**

Specialization in Army @ with course code 24UNC4GEC2 has been introduced as an GEC-II for NCC candidates.

**Resolved to approve the ratification in the options of Generic Elective Course I and II of III and IV Semester syllabus of B.Sc., Chemistry for 2024-2025 batch and onwards and recommend to the Academic Council, Cauvery College for Women (Autonomous), Trichy.**

**RESOLUTION No. BOS/25/12/03**

To consider and to approve the ratification in the credit of Core Practical IV in semester IV of B.Sc., Chemistry for 2024-2025 batch and onwards and recommend to the Academic Council, Cauvery College for Women (Autonomous), Trichy.

**IV SEMESTER OF 2024-2025 BATCH AND ONWARDS**

1. **Core Practical IV:24UCH4CC4P-INORGANIC QUALITATIVE ANALYSIS (P)**
   - Credit of this practical has been reduced from 4 to 3

**Resolved to approve the ratification in the credit of Core Practical IV in semester IV of B.Sc., Chemistry for 2024-2025 batch and onwards and recommend to the Academic Council, Cauvery College for Women (Autonomous), Trichy.**

**RESOLUTION No. BOS/25/12/04**

To consider and to approve the shifting and changes in the duration of Internship. Evaluation of Internship in Semester V of B.Sc., Chemistry for 2024-2025 batch and onwards and recommend to the Academic Council, Cauvery College for Women (Autonomous), Trichy.

**INTERNSHIP :24UCH5INT**

- Internship duration has been changed from 15 days to 30 days.
- It has been shifted from Semester III holidays to Semester IV holidays
- Internship is evaluated in Semester V with course code 24UCH5INT

**Resolved to approve the shifting and changes in the duration of Internship. Evaluation of Internship in Semester V of B.Sc., Chemistry for 2024-2025 batch and onwards and recommend to the Academic Council, Cauvery College for Women (Autonomous), Trichy.**

**RESOLUTION No. BOS/25/12/05**

To consider and to approve the ratification in the Hours and Syllabus of Core Course IX and Credits of Core Course X and Hours and Credits of Project Work in VI Semester of B.Sc., Chemistry for 2024-2025 batch and onwards and recommend to the Academic Council, Cauvery College for Women (Autonomous), Trichy.

**VI SEMESTER OF 2024-2025 BATCH AND ONWARDS**

**Core Course IX: 24UCH6CC9-ORGANIC CHEMISTRY-II**

- Hours of this course has been changed from 5 to 6
- Chemistry of Drugs have been included in the unit IV.

Resolved to carry out the changes as given in the Annexure A

**Core Course X: 24UCH6CC10-PHYSICAL CHEMISTRY-II**

- Credit of this course has been increased from 4 to 5

**Project: 24UCH6PW-PROJECT WORK**

- Hours has been changed from 5 to 4
- Credits has been changed from 4 to 3

**Resolved to approve the ratification in the Hours and Syllabus of Core Course -IX and Credits of Core Course X and Hours and Credits of Project Work in VI Semester of B.Sc., Chemistry for 2024-2025 batch and onwards and recommend to the Academic Council, Cauvery College for Women (Autonomous), Trichy.**

**RESOLUTION No. BOS/25/12/06**

To consider and to approve the ratification in the I Semester Core Course II syllabus of M.Sc., Chemistry for 2025-2026 batch and onwards and recommend to the Academic Council, Cauvery College for Women (Autonomous), Trichy.

**I SEMESTER OF 2025-2026 BATCH AND ONWARDS**

**Core Course II: 25PCH1CC2-Structure and Bonding in Inorganic Compounds**

- Unit I has been ratified.
- Unit III has been changed from Solid state Chemistry – I to Bioinorganic Chemistry
- Unit IV has been changed from Solid State Chemistry -II to Solid State Chemistry

Resolved to carry out the changes as given in the Annexure B

**Resolved to approve the ratification in the I Semester Core Course II syllabus of M.Sc., Chemistry for 2025-2026 batch and onwards and recommend to the Academic Council, Cauvery College for Women (Autonomous), Trichy**

The Chairperson expressed her deep sense of gratitude and thanks to all members of Board of Studies of Chemistry.

**(Chairman)**
**Board of Studies**

**CAUVERY COLLEGE FOR WOMEN (AUTONOMOUS)**

**PG AND RESEARCH DEPARTMENT OF CHEMISTRY**

**B.Sc., CHEMISTRY**

**(For the Candidates admitted from the Academic year 2024 - 2025 and onwards)**

| Semester | Part | Course | Course Title | Course Code | Inst. Hrs. / Week | Credits | Exam | | | Total |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | Hrs. | Marks | | |
| | | | | | | | | Int. | Ext. | |
| I | I | Language Course - I (LC) | Pothutamil-I | 23ULT1 | 6 | 3 | 3 | 25 | 75 | 100 |
| | | | Hindi ka Samanya Gyan aur Nibandh | 23ULH1 | | | | | | |
| | | | Poetry, Grammar and History of Sanskrit Literature | 23ULS1 | | | | | | |
| | | | Foundation Course: Paper I – French I | 23ULF1 | | | | | | |
| | II | English Language Course - I (ELC) | General English -I | 23UE1 | 6 | 3 | 3 | 25 | 75 | 100 |
| | III | Core Course - I (CC) | General Chemistry-I | 23UCH1CC1 | 5 | 5 | 3 | 25 | 75 | 100 |
| | | Core Practical - I (CP) | Quantitative Inorganic Estimation (Titrimetry) and Inorganic Preparations (P) | 23UCH1CC1P | 3 | 3 | 3 | 40 | 60 | 100 |
| | | First Allied Course - I (AC) | Calculus and Fourier Series | 22UCH1AC1A | 4 | 3 | 3 | 25 | 75 | 100 |
| | | | Biology – I | 23UCH1AC1B | | | | | | |
| | | First Allied Course - II (AC) | Algebra, Analytical Geometry of 3D & Trigonometry | 22UCH1AC2A | 4 | 3 | 3 | 25 | 75 | 100 |
| | | | Biology (P) | 23UCH1AC2BP | | | | 40 | 60 | |
| | IV | Ability Enhancement Compulsory Course - I (AECC) | Value Education | 23UGVE | 2 | 2 | - | 100 | - | 100 |
| | | | | **Total** | **30** | **22** | | | | **700** |
| II | I | Language Course - II (LC) | Pothutamil –II | 23ULT2 | 6 | 3 | 3 | 25 | 75 | 100 |
| | | | Hindi Literature & Grammar – II | 22ULH2 | | | | | | |
| | | | Prose, Grammar and History of Sanskrit Literature | 23ULS2 | | | | | | |
| | | | Basic French – II | 22ULF2 | | | | | | |
| | II | English Language Course - II (ELC) | General English– II | 23UE2 | 6 | 3 | 3 | 25 | 75 | 100 |
| | III | Core Course - II (CC) | Inorganic and Physical Chemistry | 23UCH2CC2 | 5 | 5 | 3 | 25 | 75 | 100 |
| | | Core Practical - | Inorganic Materials | 23UCH2CC2P | 3 | 3 | 3 | 40 | 60 | 100 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | II (CP) | of Industrial Importance (P) | | | | | | | |
| | | Core Course -III (CC) | Material Science | 23UCH2CC3 | 2 | 2 | 3 | 25 | 75 | 100 |
| | | First Allied Course - III (AC) | ODE, Laplace Transforms and Statistics | 22UCH2AC3A | 4 | 3 | 3 | 25 | 75 | 100 |
| | | | Biology – II | 23UCH2AC3B | | | | | | |
| | | Ability Enhancement Compulsory Course - II (AECC) | Environmental Studies | 22UGEVS | 2 | 2 | - | 100 | - | 100 |
| | IV | Ability Enhancement Compulsory Course - III (AECC) | Innovation and Entrepreneurship | 22UGIE | 2 | 1 | - | 100 | - | 100 |
| | | Extra Credit Course | SWAYAM | | As per UGC Recommendation | | | | | |
| | | | | **Total** | **30** | **22** | | | | **800** |
| III | I | Language Course - III (LC) | Pothutamil-III | 23ULT3 | 6 | 3 | 3 | 25 | 75 | 100 |
| | | | Hindi Literature & Grammar – III | 22ULH3 | | | | | | |
| | | | Drama, Grammar and History of Sanskrit Literature | 23ULS3 | | | | | | |
| | | | Intermediate French – I | 22ULF3 | | | | | | |
| | II | English Language Course - III (ELC) | Learning Grammar through Literature – I | 23UE3 | 6 | 3 | 3 | 25 | 75 | 100 |
| | III | Core Course - IV (CC) | Organic and Analytical Chemistry | 23UCH3CC4 | 5 | 5 | 3 | 25 | 75 | 100 |
| | | Core Practical - III(CP) | Analysis and Preparation of Organic Compounds (P) | 22UCH3CC3P | 3 | 3 | 3 | 40 | 60 | 100 |
| | | Second Allied Course - I (AC) | Physics – I | 22UCH3AC4 | 4 | 3 | 3 | 25 | 75 | 100 |
| | | Second Allied Course - II (AP) | Physics -I (P) | 22UCH3AC5P | 4 | 3 | 3 | 40 | 60 | 100 |
| | IV | Ability Enhancement Compulsory Course-IV (AECC) | Health and Wellness | 24UGHW | 2* | 1 | | 100 | | 100 |
| | | Generic Elective Course - I (GEC) | Chemistry in Everyday Life | 22UCH3GEC1 | 2 | 2 | 3 | 25 | 75 | 100 |
| | | | Introduction to NCC@ | 24UNC3GEC1 | | | | | | |
| | | | Basic Tamil-I | 22ULC3BT1 | | | | | | |
| | | | Special Tamil-I | 22ULC3ST1 | | | | | | |
| | | Extra Credit Course | SWAYAM | | As per UGC Recommendation | | | | | |
| | | | | **Total** | **30** | **23** | | | | **800** |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| IV | I | Language Course - IV (LC) | Puthutamil- IV | 23ULT4 | 6 | 3 | 3 | 25 | 75 | 100 |
| | | | Hindi Literature and Functional Hindi | 22ULH4 | | | | | | |
| | | | Alankara, Didactic and Modern Literatures and Translation | 23ULS4 | | | | | | |
| | | | Intermediate French – II | 22ULF4 | | | | | | |
| | II | English Language Course - IV (ELC) | Learning Grammar through Literature – II | 23UE4 | 6 | 3 | 3 | 25 | 75 | 100 |
| | III | Core Course - V(CC) | Inorganic and Organic Chemistry | 23UCH4CC5 | 6 | 5 | 3 | 25 | 75 | 100 |
| | | Core Practical - IV(CP) | Inorganic Qualitative Analysis (P) | 24UCH4CC4P | 4 | 3 | 3 | 40 | 60 | 100 |
| | | Second Allied Course - III (AC) | Physics – II | 22UCH4AC6 | 4 | 3 | 3 | 25 | 75 | 100 |
| | IV | Generic Elective Course - II (GEC) | Food Adulterants and Health Care | 22UCH4GEC2 | 2 | 2 | 3 | 25 | 75 | 100 |
| | | | Specialization in Army@ | 24UNC4GEC2 | | | | | | |
| | | | Basic Tamil-II | 22ULC4BT2 | | | | | | |
| | | | Special Tamil-II | 22ULC4ST2 | | | | | | |
| | | Skill Enhancement Course - I (SEC) | Chemistry of Consumer Products (P) | 22UCH4SEC1P | 2 | 2 | 3 | 40 | 60 | 100 |
| | | Extra Credit Course | SWAYAM | | As per UGC Recommendation | | | | | |
| | | | | **Total** | **30** | **21** | | | | **700** |
| **30 Days INTERNSHIP during Semester Holidays** | | | | | | | | | | |
| V | III | Core Course - VI(CC) | Inorganic Chemistry | 23UCH5CC6 | 6 | 5 | 3 | 25 | 75 | 100 |
| | | Core Practical - V(CP) | Physical Chemistry (P) | 22UCH5CC5P | 3 | 3 | 3 | 40 | 60 | 100 |
| | | Core Course - VII(CC) | Organic Chemistry – I | 23UCH5CC7 | 6 | 5 | 3 | 25 | 75 | 100 |
| | | Core Course - VIII(CC) | Physical Chemistry – I | 23UCH5CC8 | 6 | 5 | 3 | 25 | 75 | 100 |
| | | Internship | Internship | 24UCH5INT | - | 2 | - | - | 100 | 100 |
| | | Discipline Specific Elective - I (DSE) | A. Nuclear and Industrial Chemistry | 23UCH5DSE1A | 5 | 3 | 3 | 25 | 75 | 100 |
| | | | B. Basics of Nanoscience and Nanotechnology | 23UCH5DSE1B | | | | | | |
| | | | Polymer Chemistry | 23UCH5DSE1C | | | | | | |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | IV | Ability Enhancement Compulsory Course - V(AECC) | UGC Jeevan Kaushal - Professional Skills | 22UGPS | 2 | 2 | - | 100 | - | 100 |
| | | Skill Enhancement Course - II (SEC) | Water Analysis (P) | 22UCH5SEC2P | 2 | 2 | 3 | 40 | 60 | 100 |
| | | Extra Credit Course | SWAYAM | | As per UGC Recommendation | | | | | |
| | | **Total** | | | **30** | **27** | | | | **800** |
| VI | III | Core Course - IX(CC) | Organic Chemistry – II | 24UCH6CC9 | 6 | 5 | 3 | 25 | 75 | 100 |
| | | Core Course -X (CC) | Physical Chemistry – II | 24UCH6CC10 | 6 | 5 | 3 | 25 | 75 | 100 |
| | | Core Course -XI (CC) | Cyber Security | 22UGCS | 5 | 4 | 3 | 25 | 75 | 100 |
| | | Core Practical - VI (CP) | Gravimetric Analysis and Physical Parameter (P) | 23UCH6CC6P | 4 | 3 | 4 | 40 | 60 | 100 |
| | | Discipline Specific Elective - II (DSE) | A. Analytical Techniques(P) | 23UCH6DSE2AP | 4 | 3 | 3 | 40 | 60 | 100 |
| | | | B. Cosmetic Chemistry (P) | 23UCH6DSE2BP | | | | | | |
| | | | C. Analysis of Herbal Products (P) | 23UCH6DSE2CP | | | | | | |
| | | Project | Project Work | 24UCH6PW | 4 | 3 | - | - | 100 | 100 |
| | IV | Ability Enchancement Compulsory Course-VI (AECC) | Gender Studies | 22UGGS | 1 | 1 | - | 100 | - | 100 |
| | V | Extension activity | | 22UGEA | - | 1 | - | - | - | - |
| | | | | **Total** | **30** | **25** | | | | **700** |
| | | **Grand Total** | | | **180** | **140** | | | | **4500** |

- **@ NCC is one of the choices in GEC. Only the NCC cadets are eligible to chooses this course. However, NCC Course is not a Compulsory Course for the NCC Cadets. If the Cadet has not studied Tamil in the school level, she has to take Basic Tamil Course.**
- *** Health and Wellness shall be outside instruction hours**

## Courses & Credits for UG Science Programmes

| Part | Course | No. of Courses | Hours/ Course | Credits | Total Credits |
|---|---|---|---|---|---|
| I | Tamil/ Other Language | 4 | 6 | 12 | 12 |
| II | English | 4 | 6 | 12 | 12 |
| III | Core (Theory)<br>Core (Practical)<br>CC/CP-III<br>Cyber Security | 9<br>6<br>1<br>1 | 5/6<br>3/4<br>2<br>5 | 9*5=45<br>6*3=18<br>1*2=2<br>1*4=4 | **98** |
| | Project Work | 1 | 4 | 3 | |
| | Internship | 1 | - | 2 | |
| | First Allied | 3 | ¾ | 3*3=9 | |
| | Second Allied | 3 | ¾ | 3*3=9 | |
| | DSE | 2 | 5 | 2*3=6 | |
| IV | GEC | 2 | 2 | 2*2=4 | 17 |
| | SEC | 2 | 2 | 2*2=4 | |
| | AECC-I -Universal Human Values | 1 | 2 | 2 | |
| | AECC-II-Environmental Studies | 1 | 2 | 2 | |
| | AECC-III-Innovation and Entrepreneurship | 1 | 2 | 1 | |
| | AECC-IV- Health and Wellness | 1 | - | 1 | |
| | AECC-V Professional Skills | 1 | 2 | 2 | |
| | AECC-VI Gender Studies | 1 | 1 | 1 | |
| V | Extension Activities | 0 | - | 1 | 01 |
| | | **45** | | 140 | **140** |

## *For BSc Mathematics & BCA

**The Internal and external marks for theory and practical papers are as follows:**

| Subject | Internal Marks | External Marks |
|---|---|---|
| Theory | 25 | 75 |
| Practical | 40 | 60 |

**For Theory:**

a) The passing minimum for CIA shall be 40%out of 25 marks (i.e. 10marks)
b) The passing minimum for End Semester Examinations shall be 40% out of 75 marks (i.e.30 marks)

**For Practical:**

a) The passing minimum for CIA shall be 40% out of 40 marks (i.e. 16marks)
b) The passing minimum for End Semester Examinations shall be 40% out of 60 marks (i.e .24 marks)

**Internal Component (Theory)**

| Component | Marks |
|---|---|
| Library | 05 |
| Assignment & Seminar | 10 |
| CIA -I | 05 |
| CIA-II | 05 |
| **Total** | **25** |

**Internal Component (Practical)**

| Component | Marks |
|---|---|
| Observation | 05 |
| Record | 10 |
| Continual performance | 10 |
| Model | 15 |
| **Total** | **40** |

**Question Paper Pattern**

**Answer all the questions**
**PART A (20X1=20)**

**Answer all the questions**
**PART B (5X5=25)**

**Answer any three questions**
**PART C (3X10=30)**

**CAUVERY COLLEGE FOR WOMEN (AUTONOMOUS)**

**PG AND RESEARCH DEPARTMENT OF CHEMISTRY**

**B.Sc. CHEMISTRY**

**(For the Candidates admitted from the Academic year 2024 - 2025 and onwards)**

| Semester | Part | Course | Course Title | Course Code | Inst. Hrs. / Week | Credits | Exam | | | Total |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | Hrs. | Marks | | |
| | | | | | | | | Int. | Ext. | |
| I | I | Language Course - I (LC) | Pothutamil-I | 23ULT1 | 6 | 3 | 3 | 25 | 75 | 100 |
| | | | Hindi ka Samanya Gyan aur Nibandh | 23ULH1 | | | | | | |
| | | | Poetry, Grammar and History of Sanskrit Literature | 23ULS1 | | | | | | |
| | | | Foundation Course: Paper I – French I | 23ULF1 | | | | | | |
| | II | English Language Course - I (ELC) | General English -I | 23UE1 | 6 | 3 | 3 | 25 | 75 | 100 |
| | III | Core Course - I (CC) | General Chemistry-I | 23UCH1CC1 | 5 | 5 | 3 | 25 | 75 | 100 |
| | | Core Practical - I (CP) | Quantitative Inorganic Estimation (Titrimetry) and Inorganic Preparations (P) | 23UCH1CC1P | 3 | 3 | 3 | 40 | 60 | 100 |
| | | First Allied Course - I (AC) | Calculus and Fourier Series | 22UCH1AC1A | 4 | 3 | 3 | 25 | 75 | 100 |
| | | | Biology – I | 23UCH1AC1B | | | | | | |
| | | First Allied Course - II (AC) | Algebra, Analytical Geometry of 3D & Trigonometry | 22UCH1AC2A | 4 | 3 | 3 | 25 | 75 | 100 |
| | | | Biology (P) | 23UCH1AC2BP | | | | 40 | 60 | |
| | IV | Ability Enhancement Compulsory Course - I (AECC) | Value Education | 23UGVE | 2 | 2 | - | 100 | - | 100 |
| | | | | **Total** | **30** | **22** | | | | **700** |
| II | I | Language Course - II (LC) | Pothutamil –II | 23ULT2 | 6 | 3 | 3 | 25 | 75 | 100 |
| | | | Hindi Literature & Grammar – II | 22ULH2 | | | | | | |
| | | | Prose, Grammar and History of Sanskrit Literature | 23ULS2 | | | | | | |
| | | | Basic French – II | 22ULF2 | | | | | | |
| | II | English Language Course - II (ELC) | General English– II | 23UE2 | 6 | 3 | 3 | 25 | 75 | 100 |
| | III | Core Course - II (CC) | Inorganic and Physical Chemistry | 23UCH2CC2 | 5 | 5 | 3 | 25 | 75 | 100 |
| | | Core Practical - | Inorganic Materials | 23UCH2CC2P | 3 | 3 | 3 | 40 | 60 | 100 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | II (CP) | of Industrial Importance (P) | | | | | | | |
| | | Core Course -III (CC) | Material Science | 23UCH2CC3 | 2 | 2 | 3 | 25 | 75 | 100 |
| | | First Allied Course - III (AC) | ODE, Laplace Transforms and Statistics | 22UCH2AC3A | 4 | 3 | 3 | 25 | 75 | 100 |
| | | | Biology – II | 23UCH2AC3B | | | | | | |
| | | Ability Enhancement Compulsory Course - II (AECC) | Environmental Studies | 22UGEVS | 2 | 2 | - | 100 | - | 100 |
| | IV | Ability Enhancement Compulsory Course - III (AECC) | Innovation and Entrepreneurship | 22UGIE | 2 | 1 | - | 100 | - | 100 |
| | | Extra Credit Course | SWAYAM | | As per UGC Recommendation | | | | | |
| | | | | **Total** | **30** | **22** | | | | **800** |
| III | I | Language Course - III (LC) | Pothutamil-III | 23ULT3 | 6 | 3 | 3 | 25 | 75 | 100 |
| | | | Hindi Literature & Grammar – III | 22ULH3 | | | | | | |
| | | | Drama, Grammar and History of Sanskrit Literature | 23ULS3 | | | | | | |
| | | | Intermediate French – I | 22ULF3 | | | | | | |
| | II | English Language Course - III (ELC) | Learning Grammar through Literature – I | 23UE3 | 6 | 3 | 3 | 25 | 75 | 100 |
| | III | Core Course - IV (CC) | Organic and Analytical Chemistry | 23UCH3CC4 | 5 | 5 | 3 | 25 | 75 | 100 |
| | | Core Practical - III(CP) | Analysis and Preparation of Organic Compounds (P) | 22UCH3CC3P | 3 | 3 | 3 | 40 | 60 | 100 |
| | | Second Allied Course - I (AC) | Physics – I | 22UCH3AC4 | 4 | 3 | 3 | 25 | 75 | 100 |
| | | Second Allied Course - II (AP) | Physics -I (P) | 22UCH3AC5P | 4 | 3 | 3 | 40 | 60 | 100 |
| | IV | Ability Enhancement Compulsory Course-IV (AECC) | Health and Wellness | 24UGHW | 2* | 1 | | 100 | | 100 |
| | | Generic Elective Course - I (GEC) | Chemistry in Everyday Life | 22UCH3GEC1 | 2 | 2 | 3 | 25 | 75 | 100 |
| | | | Introduction to NCC@ | 24UNC3GEC1 | | | | | | |
| | | | Basic Tamil-I | 22ULC3BT1 | | | | | | |
| | | | Special Tamil-I | 22ULC3ST1 | | | | | | |
| | | Extra Credit Course | SWAYAM | | As per UGC Recommendation | | | | | |
| | | | | **Total** | **30** | **23** | | | | **800** |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| IV | I | Language Course - IV (LC) | Puthutamil- IV | 23ULT4 | 6 | 3 | 3 | 25 | 75 | 100 |
| | | | Hindi Literature and Functional Hindi | 22ULH4 | | | | | | |
| | | | Alankara, Didactic and Modern Literatures and Translation | 23ULS4 | | | | | | |
| | | | Intermediate French – II | 22ULF4 | | | | | | |
| | II | English Language Course - IV (ELC) | Learning Grammar through Literature – II | 23UE4 | 6 | 3 | 3 | 25 | 75 | 100 |
| | III | Core Course - V(CC) | Inorganic and Organic Chemistry | 23UCH4CC5 | 6 | 5 | 3 | 25 | 75 | 100 |
| | | Core Practical - IV(CP) | Inorganic Qualitative Analysis (P) | 24UCH4CC4P | 4 | 3 | 3 | 40 | 60 | 100 |
| | | Second Allied Course - III (AC) | Physics – II | 22UCH4AC6 | 4 | 3 | 3 | 25 | 75 | 100 |
| | IV | Generic Elective Course - II (GEC) | Food Adulterants and Health Care | 22UCH4GEC2 | 2 | 2 | 3 | 25 | 75 | 100 |
| | | | Specialization in Army@ | 24UNC4GEC2 | | | | | | |
| | | | Basic Tamil-II | 22ULC4BT2 | | | | | | |
| | | | Special Tamil-II | 22ULC4ST2 | | | | | | |
| | | Skill Enhancement Course - I (SEC) | Chemistry of Consumer Products (P) | 22UCH4SEC1P | 2 | 2 | 3 | 40 | 60 | 100 |
| | | Extra Credit Course | SWAYAM | | As per UGC Recommendation | | | | | |
| | | | | **Total** | **30** | **21** | | | | **700** |
| **30 Days INTERNSHIP during Semester Holidays** | | | | | | | | | | |
| V | III | Core Course - VI(CC) | Inorganic Chemistry | 23UCH5CC6 | 6 | 5 | 3 | 25 | 75 | 100 |
| | | Core Practical - V(CP) | Physical Chemistry (P) | 22UCH5CC5P | 3 | 3 | 3 | 40 | 60 | 100 |
| | | Core Course - VII(CC) | Organic Chemistry – I | 23UCH5CC7 | 6 | 5 | 3 | 25 | 75 | 100 |
| | | Core Course - VIII(CC) | Physical Chemistry – I | 23UCH5CC8 | 6 | 5 | 3 | 25 | 75 | 100 |
| | | Internship | Internship | 24UCH5INT | - | 2 | - | - | 100 | 100 |
| | | Discipline Specific Elective - I (DSE) | A. Nuclear and Industrial Chemistry | 23UCH5DSE1A | 5 | 3 | 3 | 25 | 75 | 100 |
| | | | B. Basics of Nanoscience and Nanotechnology | 23UCH5DSE1B | | | | | | |
| | | | Polymer Chemistry | 23UCH5DSE1C | | | | | | |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | IV | Ability Enhancement Compulsory Course - V(AECC) | UGC Jeevan Kaushal - Professional Skills | 22UGPS | 2 | 2 | - | 100 | - | 100 |
| | | Skill Enhancement Course - II (SEC) | Water Analysis (P) | 22UCH5SEC2P | 2 | 2 | 3 | 40 | 60 | 100 |
| | | Extra Credit Course | SWAYAM | | As per UGC Recommendation | | | | | |
| | | **Total** | | | **30** | **27** | | | | **800** |
| VI | III | Core Course - IX(CC) | Organic Chemistry – II | 24UCH6CC9 | 6 | 5 | 3 | 25 | 75 | 100 |
| | | Core Course -X (CC) | Physical Chemistry – II | 24UCH6CC10 | 6 | 5 | 3 | 25 | 75 | 100 |
| | | Core Course -XI (CC) | Cyber Security | 22UGCS | 5 | 4 | 3 | 25 | 75 | 100 |
| | | Core Practical - VI (CP) | Gravimetric Analysis and Physical Parameter (P) | 23UCH6CC6P | 4 | 3 | 4 | 40 | 60 | 100 |
| | | Discipline Specific Elective - II (DSE) | A. Analytical Techniques(P) | 23UCH6DSE2AP | 4 | 3 | 3 | 40 | 60 | 100 |
| | | | B. Cosmetic Chemistry (P) | 23UCH6DSE2BP | | | | | | |
| | | | C. Analysis of Herbal Products (P) | 23UCH6DSE2CP | | | | | | |
| | | Project | Project Work | 24UCH6PW | 4 | 3 | - | - | 100 | 100 |
| | IV | Ability Enchancement Compulsory Course-VI (AECC) | Gender Studies | 22UGGS | 1 | 1 | - | 100 | - | 100 |
| | V | Extension activity | | 22UGEA | - | 1 | - | - | - | - |
| | | | | **Total** | **30** | **25** | | | | **700** |
| | | | | **Grand Total** | **180** | **140** | | | | **4500** |

- **@ NCC is one of the choices in GEC. Only the NCC cadets are eligible to chooses this course. However, NCC Course is not a Compulsory Course for the NCC Cadets. If the Cadet has not studied Tamil in the school level, she has to take Basic Tamil Course.**
- *** Health and Wellness shall be outside instruction hours**

| Semester IV | Internal Marks: 40 | | | External Marks: 60 |
|---|---|---|---|---|
| COURSE CODE | COURSE TITLE | CATEGORY | Hrs/ Week | CREDITS |
| 24UCH4CC4P | INORGANIC QUALITATIVE ANALYSIS (P) | CORE | 4 | 3 |

**Objectives**

- To learn the techniques of semi micro qualitative analysis.
- To know the nature of acidic and basic radicals.
- To learn the separation of groups.

**Course outcomes**

| CO Number | CO Statement<br>On the successful completion of the course, students will be able to | owledge Level |
|---|---|---|
| CO1 | Recall the nature of acidic and basic radicals | K1 |
| CO2 | Identify the cations and anions present in the mixture | K2 |
| CO3 | Analyse the principles of inorganic qualitative analysis. | K3 |
| CO4 | Demonstrate the experimental methods of group separation | K4 |
| CO5 | Plan, execute and record all the experimental results. | K5 |

**Mapping of CO with PO and PSO**

| COs | PSO1 | PSO2 | PSO3 | PSO4 | PSO5 | PO1 | PO2 | PO3 | PO4 | PO5 |
|---|---|---|---|---|---|---|---|---|---|---|
| CO1 | 3 | 3 | 1 | 3 | 2 | 3 | 1 | 1 | 1 | 3 |
| CO2 | 3 | 2 | 1 | 3 | 2 | 2 | 3 | 1 | 1 | 2 |
| CO3 | 3 | 3 | 1 | 1 | 2 | 3 | 2 | 2 | 2 | 3 |
| CO4 | 2 | 2 | 2 | 3 | 1 | 2 | 2 | 2 | 1 | 1 |
| CO5 | 1 | 3 | 3 | 1 | 3 | 2 | 3 | 3 | 3 | 1 |

"1"– Slight(Low) Correlation "2"–Moderate(Medium)Correlation

"3"–Substantial(High) Correlation "-"indicatesthereisno correlation.

## SYLLABUS

## INORGANIC QUALITATIVE ANALYSIS (P)

Analysis of a mixture containing two cations and two anions of which one will be an interfering acid radical. Semi micro methods using the conventional method with sodium sulphide may be adopted.

**Cations to be studied:**

Lead, copper, bismuth, iron, aluminium, zinc, manganese, cobalt, nickel, barium, calcium, strontium, magnesium and ammonium.

**Anions to be studied:**

Carbonate, Sulphate, Nitrate, Chloride, Fluoride, Borate, Oxalate and Phosphate.

### Text Books

1.Venkateswaran V. Veerasamy R. Kulandaivelu A.R., Basic principles of Practical Chemistry, 2nd edition, New Delhi, Sultan Chand & sons (1997)

### Reference book

1.Svehla G. Sivasankar B. Vogels Qualitative Inorganic Analysis, 7th Edition, Pearson Education

### Web References

1. http://rbmcollege.ac.in/sites/default/files/files/reading%20material/inorganic-qualitative-analysis.pdf
2. https://chem.libretexts.org/Bookshelves/Analytical_Chemistry/Supplemental_Modules
3. https://byjus.com/chemistry/salt-analysis/
4. https://ncert.nic.in/pdf/publication/sciencelaboratorymanuals/classXII/chemistry/lelm107.pdf
5. https://chemlab.truman.edu/files/2015/07/Inorganic-Qualitative-Analysis.pdf
6. https://www.teachmint.com/tfile/studymaterial/b- sc/inorganicchemistry/qualitativeanalysis/a9301386-a267-44c7-886a-09c64f439dcb

### Pedagogy

Demonstration and practical sessions

### Course Designer

❖ **Dr. C. RAJARAJESWARI**

| Semester VI | Internal Marks: 25 | | | External Marks: 75 |
|---|---|---|---|---|
| COURSE CODE | COURSE TITLE | CATEGORY | Hrs / Week | CREDITS |
| 24UCH6CC9 | ORGANIC CHEMISTRY-II | CORE | 6 | 5 |

## Course Objectives

- This course helps to learn the chemistry of carbohydrates, proteins, vitamins, alkaloids terpenoids and drug.
- To recognize the mechanism of various oxidizing and reducing reagents and spectroscopy techniques for the elucidation of structures.

## Course Outcomes

## Course Outcome and Cognitive Level Mapping

| CO Number | CO Statement<br>On successful completion of the course, the student will be able to | Knowledge Level |
|---|---|---|
| CO1 | Recall the basic concepts of biomolecules, analgesic, reagents and spectroscopy. | K1 |
| CO2 | Classify the types of amino acids, alkaloids, terpenoids, reagents, drugs and spectrum. | K2 |
| CO3 | Interpret the reactions of biomolecules, side effects of medicinal products. mechanism of redox reactions and instrumentations. | K3 |
| CO4 | Analyze the structure of carbohydrates, proteins, vitamins, drugs, properties of reagents and application of spectroscopic techniques. | K4 |
| CO5 | Deduce the $\lambda_{max}$, value, vibrational frequency and chemical shift of organic molecules. | K5 |

**Mapping of CO with PO and PSO**

| Cos | PSO1 | PSO2 | PSO3 | PO4 | PO5 | PO1 | PO2 | PO3 | PO4 | PO5 |
|---|---|---|---|---|---|---|---|---|---|---|
| CO 1 | 3 | 3 | 2 | 2 | 2 | 3 | 2 | 1 | 3 | 2 |
| CO2 | 3 | 2 | 1 | 2 | 2 | 3 | 3 | 1 | 1 | 2 |
| CO3 | 3 | 2 | 2 | 3 | 3 | 3 | 3 | 2 | 2 | 3 |
| CO4 | 3 | 1 | 2 | 3 | 2 | 3 | 3 | 2 | 1 | 2 |
| CO5 | 3 | 2 | 3 | 1 | 2 | 3 | 3 | 2 | 3 | 3 |

"1" – Slight (Low) Correlation
"2" – Moderate (Medium) Correlation
"3" – Substantial (High) Correlation
"-" indicates there is no correlation

**Syllabus**

| UNIT | CONTENT | HOURS | COs | COGNITIVE LEVEL |
|---|---|---|---|---|
| I | **CHEMISTRY OF CARBOHYDRATES**<br>Carbohydrate: Classification - properties of mono saccharides (glucose and fructose) - structure and configuration of mono saccharides- interconversion. Ascending and descending series-muta rotation, and epimerization- cyclic structure - determination of size of sugar rings. Disaccharides: Sucrose, maltose - structure elucidation. Polysaccharide: Starch and cellulose (elementary treatment). | 15 | CO1<br>CO2<br>CO3<br>CO4 | K1, K2, K3, K4 |
| II | **CHEMISTRY OF PROTEINS AND VITAMINS**<br>Amino acids: Zwitter ion – isoelectric point - general methods of preparation and reactions of amino acids. Peptides: Peptide linkages. Proteins: Classification of proteins -structure of proteins - primary structure - end group analysis - Edman method - secondary structure - tertiary structure - denaturation - colour reactions of proteins. Nucleic acids: Elementary treatment of DNA and RNA. Vitamins: Classification, structure and biological importance of vitamins A, B1, B2, B6, B12 and C. | 15 | CO1<br>CO2<br>CO3<br>CO4 | K1, K2, K3, K4 |
| III | **ALKALOIDS, TERPENOIDS AND DRUGS**<br>Alkaloids: Classification, isolation - methods for synthesis of coniine, piperine, nicotine and quinine. Terpenoids: Classification - isoprene, special isoprene rule, methods for synthesis of citral, limonene, menthol. Analgesic and Antipyretics: Definition, structure, synthesis, uses and side effects of aspirin, paracetamol, ibuprofen and phenacetin. | 15 | CO1<br>CO2<br>CO3<br>CO4 | K1, K2, K3, K4 |
| IV | **OXIDATION AND REDUCTION**<br>Oxidation: Osmium tetroxide – Chromyl chloride – Ozone – DDQ –Dioxiranes. Lead tetraacetate - selenium dioxide – Dess-Martin reagent. Reduction: Catalytic hydrogenation using Wilkinson Catalyst – Reduction with LAH, $NaBH_4$, tritertiarybutoxy aluminum hydride, $NaCNBH_3$, hydrazines. | 12 | CO1<br>CO2<br>CO3<br>CO4 | K1, K2, K3, K4 |

| | | | | |
|---|---|---|---|---|
| **V** | **ORGANIC SPECTROSCOPY**<br>UV - Vis spectroscopy: Types of electronic transitions – bathochromic shift, hypsochromic shift, hyperchromic shift and hypochromic shift. Instrumentation- solvent effects on $\lambda$ max - Woodward - Fieser rules for calculation of $\lambda_{max}$ : Dienes only. IR spectroscopy: Number and types of fundamental vibrations – selection rules- modes of vibrations - instrumentation - position of IR absorption frequencies for functional groups like aldehyde, ketone, alcohol, acid, amine and amide. NMR spectroscopy: Principle - chemical shift- factors affecting the chemical shift - inductive effect and hydrogen bonding - TMS, delta scales, splitting of signals - spin-spin coupling, NMR spectrum of EtOH, n -propyl bromide and isopropyl bromide. | **18** | **CO1 CO2 CO4 CO5** | **K1, K2, K3, K4, K5** |
| VI | Self-Study for Enrichment<br>**(Not to be included for External Examination)**<br>Nomenclature and isomerism of carbohydrates, source of vitamins, oxidation with $KMnO_4$, wavelength and frequency of electromagnetic radiations. | -- | **CO1 CO2 CO3** | **K1, K2, K3** |

**Text Books**


1. Bahl, B.S and Bahl .A. (2010), Advanced Organic Chemistry 12th edition, Sultan Chand &Co., New Delhi.
2. Soni. P.L, (2006), Text Book of Inorganic Chemistry, S. Chand & Co., New Delhi.
3. Bhupinder Mehta and Manju Mehta, (2015), Organic Chemistry, Prentice Hall of India Pvt Ltd., New Delhi.
4. Y. R. Sharma, (2007), Elementary Organic Spectroscopy, S. Chand Publishing, New Delhi.
5. M.K Jain and S.C. Sharma Modern Organic Chemistry, Vishal Publishing Co., Jalandhar.


**Reference Books**


1. Finar I.L. (1996), Organic Chemistry Volume 1&2 (6th edition), Addison Wesley Longman Ltd., England.
2. Morrison R.T. and Boyd R.N. and Bhattacharya S.K. (2011) Organic Chemistry (7th edition) Pearson India.
3. Tewari K.S., Vishil N.K. and Mehotra. S.N (2001), A text book of Organic Chemistry (1st edition), Vikas Publishing House Pvt Ltd., New Delhi.

4. Pine.S.H, (1987), Organic Chemistry (5th edition), McGraw-Hill International Book Company, New Delhi.

5. Seyhan N. Ege ., (2005)Organic Chemistry (5th edition),Houghton Mifflin Co., New Delhi

**Web Reference**

1.https://www.jsscacs.edu.in/sites/default/files/Department%20Files/carbohydrates.pdf

2. Types of Protein: Structure, Function and Classification | GeeksforGeeks

3. https://www.bhu.ac.in/Content/Syllabus/Syllabus_30063127202004180207l6.pdf

4. UV-Vis Spectroscopy: Principle, Parts, Uses, Limitations

**Pedagogy**

E-content, Lecture, Power Point Presentation, Seminar, Assignment, Quiz, Group discussion, Video/Animation.

**Course Designer**

**1. Dr. A.Sharmila**

| Semester VI | InternalMarks:25 | | ExternalMarks:75 | |
|---|---|---|---|---|
| **COURSECODE** | **COURSE TITLE** | **CATEGORY** | **Hrs /Week** | **CREDITS** |
| **24UCH6CC10** | **PHYSICAL CHEMISTRY-II** | **CORE COURSE** | **6** | **5** |

**Course Objective**

- To understand theory of electrolyte and electrolytic conductance.
- To apply measurements of conductance and EMF measurements.
- To familiarize fundamentals of. NMR,IR and Raman spectroscopy
- To understand law of solutions and types of liquid-liquid solutions.

**Course Outcome and Cognitive Level Mapping**

| CO Number | CO Statement<br>On the successful completion of the course, students will be able to | gnitive Level |
|---|---|---|
| CO1 | Understand theories of electrolytes, electrodes, basics concepts of spectroscopy and laws of dilute solutions. | K1,K2 |
| CO2 | Apply measurements conductance and EMF measurements, spectroscopy and purification techniques. | K3 |
| CO3 | Explain Hittorf's method, working of reversible electrodes, Splitting patterns pattern of NMR signals, mode of vibration of diatomic molecules, purification techniques of solutions. | K4 |
| CO4 | Compare Raman and IR spectroscopy, strong and weak electrolyte, reversible and irreversible electrodes, Ideal and non-ideal solutions. | K5 |
| CO5 | Determine concentration by conductance and EMF measurements, predict number of fundamental modes of vibrations, Abnormal molecular weight. | K5 |

**Mapping of CO with PO and PSO**

| COs | PSO1 | PSO2 | PSO3 | PSO4 | PSO5 | PO1 | PO2 | PO3 | PO4 | PO5 |
|---|---|---|---|---|---|---|---|---|---|---|
| CO1 | 3 | 3 | 3 | 3 | 2 | 3 | 3 | 3 | 1 | 3 |
| CO2 | 3 | 2 | 2 | 3 | 2 | 2 | 3 | 3 | 3 | 2 |
| CO3 | 3 | 3 | 3 | 1 | 2 | 3 | 2 | 2 | 2 | 3 |
| CO4 | 3 | 3 | 3 | 2 | 3 | 3 | 2 | 1 | 2 | 3 |
| CO5 | 3 | 3 | 2 | 3 | 3 | 3 | 3 | 2 | 3 | 3 |

"1"–Slight (Low)Correlation "2"–Moderate (Medium)Correlation
"3"–Substantial (High)Correlation "-"indicates there is no correlation

## Syllabus

| Unit | Content | Hours | COs | ognitive Level |
|---|---|---|---|---|
| I | **Electrochemistry–I**: Electrolytic conductance –specific, equivalent and molar conductance–Relations between them – measurement of conductance and cell constant. Factors affecting of conductance in solutions – Strong and weak electrolytes. Migration of ions – transport number– determination (Hittorf method only)– Kohlrausch's law – applications – Determination of equivalent conductance of weak electrolyte at infinite dilution - Ionic product of water - solubility of sparingly soluble salts and Ionic product of water. Ostwald's dilution law–Determination of degree of dissociation of weak electrolytes. Theory of strong electrolytes – Debye – Huckel – Onsager theory-verification of Onsager equation – Relaxation and electrophoretic effects. | 18 | CO1<br>CO2<br>CO3<br>CO4<br>CO5 | K1 K2 K3<br>K4 K5 |
| II | **Electrochemistry –II:** Galvanic cells – Reversible and Irreversible cells – EMF and its measurement–Weston Standard cell–types of reversible single electrodes – standard Hydrogen electrode – Calomel electrode – Derivation of Nernst equation for single electrode potentials –Electro chemical series – significance. Application of thermodynamic application of emf measurements – calculation of thermodynamic quantities of Galvanic cell– Determination of pH of the solution using glass electrodes– potentiometric titrations. | 18 | CO1<br>CO2<br>CO3<br>CO4<br>CO5 | K1 K2 K3<br>K4 K5 |
| III | **Dilute Solutions:** Ideal solutions, Raoult's law<br>- ideally dilute solutions- Henry's law – non-ideal solutions - vapour pressure - temperature curves – azeotropes – hydrochloric acid-water system- ethanol- water systems and fractional distillation - partially miscible liquids - phenol- water - tri methylamine-water, nicotine- water system- effect of impurity on consulate temperature - immiscible liquids and steam distillation – Nernst distribution law-applications of distribution law. Colligative Properties - elevation in boiling point, depression in freezing point-osmotic pressure (Definitions and their relationship with molecular weight of soluteonly. Abnormal molecular weight–Van'tHoff factor. | 18 | CO1<br>CO2<br>CO3<br>CO4<br>CO5 | K1 K2 K3<br>K4 K5 |

| | | | | |
|---|---|---|---|---|
| **IV** | **Spectroscopy-I:** Introduction-various types of spectroscopy - Born-Oppenheimer approximation. Rotational spectroscopy: Rotation spectra of diatomic molecules-determination of bond length and moment of Inertia from rotational spectra-numerical problems IR spectroscopy: theory - stretching and bending vibrations (H2O and CO2) -important spectral regions for the characterization of functional groups-fingerprint region- qualitative relation of force constant to vibrational frequency. Applications of vibrational spectroscopy. | **18** | **CO1**<br>**CO2**<br>**CO3**<br>**CO4**<br>**CO5** | **K1 K2 K3**<br>**K4 K5** |
| **V** | **Spectroscopy II** Raman Spectroscopy: Principle - Rayleigh and Raman scattering - Stokes and Anti-stokes lines - differences between IR and Raman spectroscopy - mutual exclusion principle. NMR spectroscopy: Theory of NMR spectrum –Relaxation methods -chemical shift -shielded and de-shielded protons, spin-spin coupling pattern of n-butanol, 2- Butanol in aprotic solvent. Coupling constant and factors affecting coupling constant. | **18** | **CO1**<br>**CO2**<br>**CO3**<br>**CO4**<br>**CO5** | **K1 K2 K3**<br>**K4 K5** |
| **VI** | **Self-study:(Not for final examination)**<br>Eigen value , conductance, cell constant, glass electrode, Daniel cell, batteries, Factors influencing vibrational levels, liquid-solid, liquid -gas solutions. | - | **CO1**<br>**CO2**<br>**CO3** | **K1 K2 K3** |

**Text Books**


1. PuriB.R.,Sharma L.R.and Pathania M.S(2019),Principles of Physical Chemistry, Shoban Lal Nagin Chand & Co., New Delhi.
2. Grutu ,J.N.& Grutu, A.(2015).Advanced Physical Chemistry.Pune,India.Pragathipublisher,18thEdition
3. Akins, P. W.(2008).Physical Chemistry. Oxford, UK. Oxford UniversityPress,8th Edition.
4. AntropovL.I,(1977),Theoretical electrochemistry, Mir Publishers.
5. BanwellC.N(1994), Fundamentals of Molecular Spectroscopy, McGraw Hill Education, Noida.


**Reference Books**


1. GurdeepRajMaronS.HandLandoJ.B(1974),FundamentalsofPhysicalChemistry, Macmillan Publishers, New York.
2. Kaur.K,(2014),Spectroscopy, 16th edition,PragatiPrakashanEducationalPublisher.

3.SoniP.L,DharmarhaO.P.&DashU.N(2016),TextbookofPhysicalChemistry, Sultan Chand & Sons, New Delhi.

## Web References

1. https://oms.bdu.ac.in/ec/admin/contents-n/148_20220208103603106.pdf
2. https://www.slideshare.net/slideshow/form-4-chapter-6-electrochemistry/166214651
3. https://tmv.ac.in/ematerial/chemistry/pm/SEM%204%20NMRS.pdf
4. https://uomustansiriyah.edu.iq/media/lectures/6/6_2020_10_09!12_07_57_AM.pdf
5. https://www.youtube.com/watch?v=WTmj_9VT5oE
6. https://microbenotes.com/electron-spin-resonance-esr-principle-instrumentation-applications/
7. https://www.youtube.com/watch?v=yd9GN5lAxdQ

## Pedagogy

Chalk and talk, PPT, E-content, Discussion, Assignment, Demo, Quiz, Seminar

## Course Designers

Dr. V.Sangu,

**CAUVERY COLLEGE FOR WOMEN (AUTONOMOUS)**

**PG AND RESEARCH DEPARTMENT OF CHEMISTRY**

**M.Sc., CHEMISTRY**

**(For the Candidates admitted from the Academic year 2024 - 2025 and onwards)**

| Semester | Course | Course Title | Course Code | Inst. Hrs. / week | Credits | Exam | | | Total |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | Hrs. | Marks | | |
| | | | | | | | Int. | Ext. | |
| I | Core Course– I (CC) | Organic Reaction Mechanism – I | 23PCH1CC1 | 6 | 5 | 3 | 25 | 75 | 100 |
| | Core Course – II (CC) | Structure and bonding in Inorganic compounds | 23PCH1CC2 | 6 | 5 | 3 | 25 | 75 | 100 |
| | Core Course –III (CC) | Molecular Spectroscopy | 23PCH1CC3 | 6 | 5 | 3 | 25 | 75 | 100 |
| | Core Practical - I (CP) | Organic Chemistry – I (P) | 24PCH1CC1P | 6 | 5 | 6 | 40 | 60 | 100 |
| | Discipline Specific Elective Course-I (DSE) | A. Analytical Instrumentation Techniques (P) | 24PCH1DSE1AP | 6 | 3 | 6 | 40 | 60 | 100 |
| | | B. Nanoscience and Nanotechnology (P) | 22PCH1DSE1BP | | | | | | |
| | | C. Biochemistry (P) | 22PCH1DSE1CP | | | | | | |
| | **Total** | | | **30** | **23** | | | | **500** |
| **15 Days INTERNSHIP during Semester Holidays** | | | | | | | | | |
| II | Core Course– IV (CC) | Physical Chemistry – I | 23PCH2CC4 | 6 | 5 | 3 | 25 | 75 | 100 |
| | Core Practical – II (CP) | Organic Chemistry – II (P) | 22PCH2CC2P | 6 | 5 | 6 | 40 | 60 | 100 |
| | Core Choice Course– I (CCC) | A. Organic Reaction Mechanism – II | 23PCH2CCC1A | 6 | 4 | 3 | 25 | 75 | 100 |
| | | B. Chemistry of Natural Products | 23PCH2CCC1B | | | | | | |
| | | C. Molecular Rearrangement | 23PCH2CCC1C | | | | | | |
| | Core Practical – III (CP) | Inorganic Chemistry– I (P) | 22PCH2CC3P | 6 | 5 | 6 | 40 | 60 | 100 |
| | Discipline Specific Elective Course-II (DSE) | A. Green Chemistry | 23PCH2DSE2A | 6 | 3 | 3 | 25 | 75 | 100 |
| | | B. Forensic Chemistry | 23PCH2DSE2B | | | | | | |
| | | C. Analytical Chemistry | 23PCH2DSE2C | | | | | | |
| | Internship | Internship | 23PCH2INT | - | 2 | - | - | 100 | 100 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | Extra Credit Course | SWAYAM | As per UGC Recommendation | | | | | | |
| | **Total** | | | **30** | **24** | | | | **600** |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| III | Core Course– V (CC) | Physical Chemistry- II | 23PCH3CC5 | 6 | 5 | 3 | 25 | 75 | 100 |
| | Core Course- VI (CC) | Inorganic Chemistry | 23PCH3CC6 | 6 | 5 | 3 | 25 | 75 | 100 |
| | Core Practical – IV (CP) | Inorganic Chemistry –II (P) | 23PCH3CC4P | 6 | 4 | 6 | 40 | 60 | 100 |
| | Core Choice Course– II (CCC) | A. Cyber Security | 22PGCS3CCC2A | 5 | 4 | 3 | 25 | 75 | 100 |
| | | B. Photochemistry and Advanced Chemical Kinetics | 22PCH3CCC2B | | | | | | |
| | | C. Electro Chemistry | 22PCH3CCC2C | | | | | | |
| | Discipline Specific Elective Course-III (DSE) | A. Chemistry for Competitive Examinations | 22PCH3DSE3A | 4 | 3 | 2 | - | 100 | 100 |
| | | B. Bioorganic Chemistry | 22PCH3DSE3B | | | 3 | 25 | 75 | |
| | | C. Pharmaceutical Chemistry | 22PCH3DSE3C | | | | | | |
| | Generic Elective Course - I (GEC) | Renewable Energy and Energy Harvesting | 23PCH3GEC1 | 3 | 2 | 3 | 25 | 75 | 100 |
| | Extra Credit Course | SWAYAM | As per UGC Recommendation | | | | | | |
| | **Total** | | | **30** | **23** | | | | **600** |
| IV | Core Course–VII (CC) | Physical Methods in Chemistry | 23PCH4CC7 | 6 | 5 | 3 | 25 | 75 | 100 |
| | Core Choice Course– III (CCC) | A. Chemistry of Nanoscience | 22PCH4CCC3A | 6 | 4 | 3 | 25 | 75 | 100 |
| | | B. Biofuels | 22PCH4CCC3B | | | | | | |
| | | C. Bioinorganic Chemistry | 22PCH4CCC3C | | | | | | |
| | Core Practical – V (CP) | Physical Chemistry (P) | 22PCH4CC5P | 6 | 5 | 6 | 40 | 60 | 100 |
| | Generic Elective Course-II (GEC) | Corrosion and Pollution Management | 22PCH4GEC2 | 3 | 2 | 3 | 25 | 75 | 100 |
| | Project | Project Work | 23PCH4PW | 9 | 4 | - | - | 100 | 100 |
| | **Total** | | | **30** | **20** | | | | **500** |
| | **Grand Total** | | | **120** | **90** | | | | **2200** |

**Courses & Credits for PG Science Programme**

| S. No | Courses | No. of Courses | No. of Credits | Marks |
|---|---|---|---|---|
| 1. | Core Course – (CC) | 7 | 35 | 700 |
| 2. | Core Choice Course– (CCC) | 3 | 12 | 300 |
| 3. | Core Practical - (CP) | 5 | 24 | 600 |
| 4. | Discipline Specific Elective-(DSE) | 3 | 09 | 300 |
| 5. | Generic Elective Course -(GEC) | 2 | 04 | 200 |
| 6. | Project | 1 | 04 | 100 |
| 7. | Internship | 1 | 02 | 100 |
| | **Total** | **22** | **90** | **2200** |

The Internal and external marks for theory and practical papers are as follows:

| Subject | Internal Marks | External Marks |
|---|---|---|
| Theory | 25 | 75 |
| Practical | 40 | 60 |

Separate passing minimum is prescribed for Internal and External.

**For Theory:**

a) The passing minimum for CIA shall be 40% out of 25 marks (i.e. 10 marks).

b) The passing minimum for End Semester Examinations shall be 40 % out of 75 marks (i.e. 30 marks).

c) The passing minimum not less than 50% in the aggregate.

**For Practical:**

a) The passing minimum for CIA shall be 40 % out of 40 marks (i.e. 16 marks).

b) The passing minimum for End Semester Examinations shall be 40 % out of 60 marks (i.e .24 marks).

c) The passing minimum not less than 50% in the aggregate.

**For Project:**

Marks for Dissertation : 80

Marks for Viva Voce : 20

Total marks : 100

**Internal Component (Theory)**

| Component | Marks |
|---|---|
| Library | 03 |
| Assignment/ Seminar | 04 |
| Attendance | 03 |
| CIA -I | 7.5 |
| CIA-II | 7.5 |
| **Total** | **25** |

**Internal Component (Practical)**

| Component | Marks |
|---|---|
| Observation | 05 |
| Record | 10 |
| Continual performance | 10 |
| Model | 15 |
| **Total** | **40** |

**Question Paper Pattern**

**PART A (10 X 2 = 20)**

Answer all the questions

**PART B (5 X 5 = 25)**

Answer all the questions

**PART C (3 X 10 = 30)**

Answer any three questions

# Cauvery College for Women (Autonomous),Trichy-18

**PG & Research Department of Chemistry**

**M.Sc., Chemistry**

**(For the Candidates admitted from the Academic year 2025-2026 onwards)**

| Semester | Course | Course Title | Course Code | Inst. Hrs. / week | Credits | Exam | | | Total |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | Hrs. | Marks | | |
| | | | | | | | Int. | Ext. | |
| I | Core Course– I (CC) | Organic Reaction Mechanism – I | 23PCH1CC1 | 6 | 5 | 3 | 25 | 75 | 100 |
| | Core Course – II (CC) | Structure and Bonding in Inorganic compounds | 25PCH1CC2 | 6 | 5 | 3 | 25 | 75 | 100 |
| | Core Course –III (CC) | Molecular Spectroscopy | 23PCH1CC3 | 6 | 5 | 3 | 25 | 75 | 100 |
| | Core Practical - I (CP) | Organic Chemistry – I (P) | 24PCH1CC1P | 6 | 5 | 6 | 40 | 60 | 100 |
| | Discipline Specific Elective Course-I (DSE) | A. Analytical Instrumentation Techniques (P) | 24PCH1DSE1AP | 6 | 3 | 6 | 40 | 60 | 100 |
| | | B. Nanoscience and Nanotechnology (P) | 22PCH1DSE1BP | | | | | | |
| | | C. Biochemistry (P) | 22PCH1DSE1CP | | | | | | |
| | **Total** | | | **30** | **23** | | | | **500** |
| **15 Days INTERNSHIP during Semester Holidays** | | | | | | | | | |

**Courses & Credits for PG Science Programmes**

| S. No | Courses | No. of Courses | No. of Credits | Marks |
|---|---|---|---|---|
| 1. | Core Course – (CC) | 7 | 35 | 700 |
| 2. | Core Choice Course– (CCC) | 3 | 12 | 300 |
| 3. | Core Practical - (CP) | 5 | 24 | 500 |
| 4. | Discipline Specific Elective-(DSE) | 3 | 09 | 300 |
| 5. | Generic Elective Course - (GEC) | 2 | 04 | 200 |
| 6. | Project | 1 | 04 | 100 |
| 7. | Internship | 1 | 02 | 100 |
| | **Total** | **22** | **90** | **2200** |

**The internal and external marks for theory and practical papers are as follows:**

| Subject | Internal Marks | External Marks |
|---|---|---|
| Theory | 25 | 75 |
| Practical | 25 | 75 |

Separate passing minimum is prescribed for Internal and External

**For Theory:**

a) The passing minimum for CIA shall be 40% out of 25 marks (i.e. 10 marks)

b) The passing minimum for End Semester Examinations shall be 40% out of 75 marks (i.e.30 marks)

c) The passing minimum not less than 50% in the aggregate.

**For Practical:**

a) The passing minimum for CIA shall be 40% out of 25 marks (i.e. 16 marks)

b) The passing minimum for End Semester Examinations shall be 40% out of 75 marks (i.e.24 marks)

c) The passing minimum not less than 50% in the aggregate.

**For Project:**

Marks for Dissertation: 80

Marks for Viva Voce : 20

Total marks : 100

**Internal Component (Theory)**

| Component | Marks |
|---|---|
| Library | 05 |
| Assignment & Seminar | 10 |
| CIA -I | 05 |
| CIA-II | 05 |
| **Total** | **25** |

**Internal Component (Practical)**

| Component | Marks |
|---|---|
| Observation | 05 |
| Record | 05 |
| Continual performance | 05 |
| Model | 10 |
| **Total** | **25** |

**Question Paper Pattern**

**PART A (10 X 2=20)**
**Answer all the questions**

**PART B (5 X 5=25)**
**Answer all the questions**

**PART C (3 X 10=30)**
**Answer any three questions**

# Cauvery College for Women (Autonomous),Trichy-18

## PG & Research Department of Chemistry

### M.Sc., Chemistry

**(For the Candidates admitted from the Academic year 2025-2026 onwards)**

| Semester | Course | Course Title | Course Code | Inst. Hrs. / week | Credits | Exam | | | Total |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | Hrs. | Marks | | |
| | | | | | | | Int. | Ext. | |
| I | Core Course– I (CC) | Organic Reaction Mechanism – I | 23PCH1CC1 | 6 | 5 | 3 | 25 | 75 | 100 |
| | Core Course – II (CC) | Structure and Bonding in Inorganic compounds | 25PCH1CC2 | 6 | 5 | 3 | 25 | 75 | 100 |
| | Core Course –III (CC) | Molecular Spectroscopy | 23PCH1CC3 | 6 | 5 | 3 | 25 | 75 | 100 |
| | Core Practical - I (CP) | Organic Chemistry – I (P) | 24PCH1CC1P | 6 | 5 | 6 | 40 | 60 | 100 |
| | Discipline Specific Elective Course-I (DSE) | A. Analytical Instrumentation Techniques (P) | 24PCH1DSE1AP | 6 | 3 | 6 | 40 | 60 | 100 |
| | | B. Nanoscience and Nanotechnology (P) | 22PCH1DSE1BP | | | | | | |
| | | C. Biochemistry (P) | 22PCH1DSE1CP | | | | | | |
| | **Total** | | | **30** | **23** | | | | **500** |
| **15 Days INTERNSHIP during Semester Holidays** | | | | | | | | | |

| Semester I | Internal Marks: 25 | | External Marks:75 | |
|---|---|---|---|---|
| COURSE CODE | COURSE TITLE | CATEGORY | HRs/ WEEKS | CREDITS |
| 25PCH1CC2 | STRUCTURE AND BONDING IN INORGANIC COMPOUNDS | CORE | 6 | 5 |

**Course Objective**

- To articulate the learning of Organometallic compounds in chemistry
- The subject lays a foundation to clusters and Bioinorganic chemistry

**Prerequisites**

Clusters, Solid state, organometallic compounds, Band theory

**Course Outcome and Cognitive Level Mapping**

| CO Number | CO Statement On the successful completion of the course students will be able to | Cognitive Level |
|---|---|---|
| CO1 | Recall and summarize the Boron compounds,Borazines,EAN rule and crystal systems | K1, K2 |
| CO2 | Apply the wades rule in clusters,EAN rule and eighteen electron rule in organometallic compounds,primary process in photosynthesis | K3 |
| CO3 | Explain the structure of clusters, metal carbonyls,functions of alkali earth metals and crystal systems | K4 |
| CO4 | Compare the structural features of P-N,S-N Compounds, various inorganic compounds and normal and inverse spines. | K5 |
| CO5 | Predict the chemistry of silanes,structure of ferrocene,metals at the center of photosynthesis, radius ratio and defects of crystals | K6 |

**Mapping with Programme Out comes**

| CO | PSO1 | PSO2 | PSO3 | PSO4 | PSO5 | PO1 | PO2 | PO3 | PO4 | PO5 |
|---|---|---|---|---|---|---|---|---|---|---|
| CO1 | 3 | 2 | 2 | 3 | 2 | 3 | 3 | 3 | 2 | 2 |
| CO2 | 2 | 3 | 2 | 2 | 1 | 3 | 2 | 3 | 3 | 3 |
| CO3 | 3 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 2 | 2 |
| CO4 | 3 | 3 | 2 | 1 | 2 | 3 | 2 | 3 | 3 | 2 |
| CO5 | 3 | 2 | 3 | 2 | 2 | 3 | 3 | 2 | 3 | 2 |

"1" – Slight or No Correlation "2" –(Moderate(/Medium) correlation

"3" – Substantial (High) Correlation "-" – indicates No Correlation

SYLLABUS

| UNIT | CONTENT | HOURS | COs | COGNITIVE LEVEL |
|---|---|---|---|---|
| I | **Structure of main group compounds and clusters:** Chemistry of boron – borane, higher boranes, carboranes, borazines and boron nitrides – chemistry of silicon – silanes, higher silanes, multiple bonded systems, disilanes, silicon nitrides. P-N compounds, cyclophosphazanes and cyclophosphazenes – S-N compounds – $S_2N_2$, $S_4N_4$, $(SN)_x$, polythiazyl $S_xN_4$ compounds – S-N cations and anions, S-P compounds – molecular sulphides such as $P_4S_3$, $P_4S_7$, $P_4S_9$ and $P_4S_{10}$ – homocyclic inorganic systems – oxocarbon anion. Clusters - Introduction- bi-tri-tetra and hexa nuclear clusters(Metal halides and oxides only),Wades rule,Polyatomic- Zintl anions and cations. | 18 | CO1<br>CO2<br>CO3<br>CO4<br>CO5 | K1<br>K2<br>K3<br>K4<br>K5<br>K6 |
| II | **Organometallic Compounds:** Hapticity of ligands- 18 Electron rule and its limitation- Classification of organometallic compounds – structure of methyl lithium, Zeise's salt and Ferrocene- Metal carbonyls – EAN rule – Mono and poly nuclear carbonyls – preparation, reactions and structure ($Ni(CO)_4$, $Fe(CO)_5$, $Cr(CO)_6$, $Mn_2(CO)_{10}$, $Co_2(CO)_8$and $Fe_2(CO)_9$ – Bonding in metal Carbonyls – Metal-ethylenic complexes – methods of formation- bonding-chemical properties. | 18 | CO1<br>CO2<br>CO3<br>CO4<br>CO5 | K1<br>K2<br>K3<br>K4<br>K5<br>K6 |

| | | | | |
|---|---|---|---|---|
| **III** | **Bioinorganic chemistry**<br>Function and transport of alkali and alkaline earth metal ions: characterization of $K^+$, $Na^+$, $Ca^{2+}$ and $Mg^{2+}$ – complexes of alkali and alkaline earth metal ions with macrocycles – ion channels – ion pumps, catalysis and regulation of bio energetic processes by the alkaline earth metal ions – $Mg^{2+}$ and $Ca^{2+}$.<br>Metals at the center of photosynthesis – Primary processes in photosynthesis – photosystems I and II-light absorption (energy acquisition) – exciton transport (direct energy transfer) – charge separation and electron transport – manganese catalyzed oxidation of water to $O_2$. | **18** | **CO1**<br>**CO2**<br>**CO3**<br>**CO4**<br>**CO5** | **K1**<br>**K2**<br>**K3**<br>**K4**<br>**K5**<br>**K6** |
| **IV** | **Solid state Chemistry**<br>Ionic crystals: Packing of ions in simple, hexagonal and cubic close packing, voids in crystal lattice, Radius ratio, Crystal systems and Bravis lattices<br>Structural features of the crystal systems: Rock salt, zinc blende &wurtzite, fluorite and anti-fluorite, rutile and anatase, cadmium iodide and nickel arsenide; Spinels -normal and inverse types and perovskite structures. | **18** | **CO1**<br>**CO2**<br>**CO3**<br>**CO4**<br>**CO5** | **K1**<br>**K2**<br>**K3**<br>**K4**<br>**K5**<br>**K6** |

| | | | | |
|---|---|---|---|---|
| V | **Band theory and defects in solids**<br>Band theory – features and its application of conductors, insulators and semiconductors, Intrinsic and extrinsic semiconductors; Defects in crystals – point defects (Schottky, Frenkel, metal excess and metal deficient) and their effect on the electrical and optical property, laser and phosphors; Linear defects and its effects due to dislocations. | 18 | CO1<br>CO2<br>CO3<br>CO4<br>CO5 | K1<br>K2<br>K3<br>K4<br>K5<br>K6 |
| VI | **Self-Study for Enrichment**<br>**(Not to be included for External Examination)**<br>High-valent metal Clusters and halide Clusters-Bragg's law, powder diffraction pattern. X-ray diffraction and Electron diffraction comparison | | CO1<br>CO2 | K2,<br>K3 |

**Text Books**


1. Greenwood. (1996). Chemistry of the Elements, United Kingdom, Elsevier Science & Technology Books.
2. Kaesz, H., Adams, R., Shriver, D., Kaesz, H., Adams, R.,Shriver,D.(1990).The Chemistry of Metal Cluster Complexes.
3. Sharma, L. R., Puri, B. R., Sharma, L. R., Puri, B. R. (1976). Principles of Inorganic Chemistry: For B.Sc. and B.Sc. (Hons.) Classes of Indian Universities. India:S.Nagin.
4. Cotton, F. A., Wilkinson, G., Cotton, F. A., Wilkinson. (2007). Advanced Inorganic Chemistry,6th Edition, India: Wiley India Pvt. Limited.
5. Keiter, E.A. (2006). Inorganic Chemistry: Principles of Structure and Reactivity. India: Pearson Education.
6. Kasim W., and Schewederski, B., Bioinorganic Chemistry: Inorganic Elements in the Chemistry of Life; 2nd Edn. John Wiley and Sons, New York, USA.
7. Arthur, W. Adamson Paul, D. (1975).Fleischauer, Concepts of Inorganic Photochemistry. United Kingdom: Wiley.
8. West, A. R., (2014). Solid state Chemistry and its applications, 2ndEdition (Students Edition), John Wiley & Sons Ltd.,.

9. Bhagi, A.K., Chatwal, G. R. (2001). A textbook of inorganic polymers, Himalaya Publishing House.
10. Smart, L., Moore E. (2012). Solid State Chemistry – An Introduction, 4th Edition, CRC Press.
11. Purcell, K. F., Kotz, J. C. (1977). Inorganic Chemistry; W.B. Saunders company: Philadelphia.
12. Huheey, J. E., Keiter, E. A., Keiter R. L. (1983). Inorganic Chemistry; 4th ed.; Harper and Row: NewYork.

## Reference Books

1. Lee, J.D., (2008). ConciseInorganicChemistry,5th Edition. (2008).India:Wiley India Pvt. Limited.
2. Gurdeep Raj, (2020). Advanced Inorganic ChemistryVol-1, KrishnaPrakashan.
3. Ferraudi, G. J., Ferraudi, G. J. (1988). Elements of Inorganic Photochemistry. United Kingdom: Wiley.
4. Pearson, R. G., Basolo, F., Pearson, R. G., Basolo, F. (1967). Mechanisms of Inorganic Reactions:A Study of Metal Complexes in Solution. United Kingdom: Wiley.
5. Sharma, R.K., Sharma, R. K. (2007). Inorganic Reaction mechanisms. India: Discovery Publishing House.
6. Douglas, D. E. McDaniel, D.H., Alexander, J. J. (1994). Concepts and Models in Inorganic Chemistry, 3rd Ed, John Wiley & Sons, Inc., New York.
7. Tilley, R. J. D., (2013). Understanding Solids - The Science of Materials, 2nd edition, Wiley Publication.
8. Rao, C. N. R., Gopalakrishnan, J., (1997). New Directions in Solid State Chemistry, 2nd Edition, Cambridge University Press.

## Web References

1. https://www2.chemistry.msu.edu/courses/cem151/chap24lect_2019.pdf
2. http://www.vpscience.org/materials/Unit%203%20B%20Coordination%20chemistry.pdf
3. https://www.usb.ac.ir/FileStaff/2896_2019-4-18-0-9-32.pdf
4. https://www.uou.ac.in/sites/default/files/slm/BSCCH-101.pdf
5. https://www.chem.uci.edu/~lawm/11-16.pdf
6. https://www.usb.ac.ir/FileStaff/5269_2018-9-18-10-21-39.pdf

## Pedagogy

**Chalk and talk, PPT, Discussion, Assignment, Demo, Quiz, Seminar**

## Course Designers

**Dr. N.Anusuya**

# ANNEXURE J

**CAUVERY COLLEGE FOR WOMEN (AUTONOMOUS)**
**Nationally Accredited (IV Cycle) with A+ Grade by NAAC**
**Annamalai Nagar, Tiruchirappalli**
**PG & RESEARCH DEPARTMENT OF COMPUTER SCIENCE**

## Agenda for the Twelfth Meeting of BoS

**DATE:** 03.04.2025
**VENUE:** CS Lab
**TIME:** 09.30 a.m.

**The Agenda for the meeting is as follows:**

**ITEM NO: BOS/12/25/01**

To consider and to approve the new courses AECC - IV- **Health and Wellness** and GEC-I - **Introduction to NCC** in Semester III of B.Sc. Computer Science for 2024 - 2025 batch and onwards and recommend to the Academic Council, Cauvery College for Women (Autonomous), Trichy.

**ITEM NO: BOS/12/25/02**

To ratify the credits of CP - V and to approve the new course of GEC-II - **Specialization in Army** in Semester IV of B.Sc. Computer Science for 2024 - 2025 batch and onwards and recommend to the Academic Council, Cauvery College for Women (Autonomous), Trichy.

**ITEM NO: BOS/12/25/03**

To consider and approve the shifting and changes in the duration of Internship, Evaluation of Internship in Semester V of B.Sc Computer Science for 2024 – 2025 batch and onwards and recommend to the Academic Council, Cauvery College for Women (Autonomous), Trichy.

**ITEM NO: BOS/12/25/04**

To reintroduce the CC - V and CP – VI in Semester V and to shift CC - V and CP – VI in Semester V of 2023 – 2024 batch to Semester VI of 2024 - 2025 batch of B.Sc. Computer Science for 2024-2025 batch and onwards, and recommend to the Academic Council, Cauvery College for Women (Autonomous), Trichy.

**ITEM NO: BOS/12/25/05**

To ratify the Credits of CC – VIII and the Position of CC – IX, and the Hours, Credits and Course Code of Project Work of Semester VI of B.Sc. Computer Science for 2024-2025 batch and onwards, and recommend to the Academic Council, Cauvery College for Women (Autonomous), Trichy.

**ITEM NO: BOS/12/25/06**

To approve the new courses AECC - III and GEC - I in Semester III of B.Sc. Computer Science with Cognitive Systems for 2024 - 2025 batch and onwards and recommend to the Academic Council, Cauvery College for Women (Autonomous), Trichy.

**ITEM NO: BOS/12/25/07**

To approve the Credits of AECC – IV and the new Course GEC – II in Semester IV of B.Sc. Computer Science with Cognitive Systems for 2024 – 2025 batch and onwards and recommend to the Academic Council, Cauvery College for Women (Autonomous), Trichy.

**ITEM NO: BOS/12/25/08**

To approve the shifting and changes in the duration of Internship, Evaluation of Internship in Semester V of B.Sc. Computer Science with Cognitive Systems for 2024 - 2025 batch and onwards and recommend to the Academic Council, Cauvery College for Women (Autonomous), Trichy.

**ITEM NO: BOS/12/25/09**

To ratify the syllabus of CC – XII – Python Programming (T & P) in Semester VI of B.Sc. Computer Science with Cognitive Systems for 2023 - 2024 batch and onwards and recommend to the Academic Council, Cauvery College for Women (Autonomous), Trichy.

**ITEM NO: BOS/12/25/10**

Any other matter with the permission of the chair

**CAUVERY COLLEGE FOR WOMEN (AUTONOMOUS)**
**Nationally Accredited (IV Cycle) with A+ Grade by NAAC**
**Annamalai Nagar, Tiruchirappalli**
**PG & RESEARCH DEPARTMENT OF COMPUTER SCIENCE**

## MINUTES OF THE TWELTH MEETING OF THE BOS

**DATE :** 03.04.2025
**VENUE :** CS LAB
**TIME :** 09.30 a.m.

**Members Present:**

| | |
|---|---|
| 1. Dr. V. Sinthu Janita | Chairperson, Professor & HoD |
| 2. Ms. N. Girubagari | Member & Head In-Charge |
| 3. Dr. A.R. Jasmine Begum | Member |
| 4. Dr. H. Krishnaveni | Member & Cognitive Systems Co-Ordinator |
| 5. Dr. A. Sahaya Jenitha | Member |
| 6. Dr. K. Pradeepa | Member |
| 7. Ms. S. Udhaya Priya | Member |
| 8. Dr. P. Muthulakshmi | Member |
| 9. Ms. R. Sridevi | Member |
| 10. Ms. R. Rita Jenifer | Member |
| 11. Ms. V. Kavitha | Member |
| 12. Dr. R. Sangeetha | Member |
| 13. Ms. S. Saranya | Member |
| 14. Ms. N. Agalya | Member |
| 15. Ms. R. Ramya | Member |
| 16. Dr. M. Suriya Priyadharshini | Member |

## ACTION TAKEN REPORT OF THE BOS HELD ON 03.04.2025

The BoS Meeting was held on 10.10.2024 at 01.30 p.m. The Chairman of the BoS read the minutes of the previous meeting and the following Resolutions were confirmed

- Ratification of the Credits and Course Code of CC - V, CC - VI, CC - VII and DSE - I of Semester V and CP - VIII, DSE - II of Semester VI for B.Sc. Computer Science for 2023 - 2024 batch and onwards

- Ratification of the Credits and Course Code of CC - VIII, CC - IX, CC – X of Semester V and CC – XII, CC - XIII of Semester VI for B.Sc. Computer Science with Cognitive Systems for 2023 - 2024 batch and onwards

## MINUTES OF THE TWELTH MEETING OF THE BOS HELD ON 03.04.2025

**RESOLUTION NO.BOS/12/25/01**

Resolved to introduce the new courses AECC - IV and GEC - I in Semester III of B.Sc. Computer Science for 2024 - 2025 batch and onwards and recommend to the Academic Council, Cauvery College for Women (Autonomous), Trichy, with the following changes for

1. AECC - IV – Health and Wellness with 1 Credit is introduced with Course Code 24UGHW
2. GEC – I – Introduction to NCC is introduced with Course Code 24UNC3GEC1 as one of the Elective Course for NCC Cadets

Resolved to carry out the changes as given in ***Annexure A***

**RESOLUTION NO.BOS/12/25/02**

Resolved to ratify the Credits of the CP – V and to approve the new course of GEC – II in Semester IV of B.Sc. Computer Science for 2024 - 2025 batch and onwards and recommend to the Academic Council, Cauvery College for Women (Autonomous), Trichy, with the following changes for

1. Credits of CP – V – SQL & PL/SQL(P) is changed as 3 with Course Code 24UCS4CC5P
2. GEC - II – Specialization in Army is introduced with Course Code 24UNC4GEC2 as one of the Elective Course for NCC Cadets

Resolved to carry out the changes as given in ***Annexure B***

**RESOLUTION NO.BOS/12/25/03**

Resolved to approve the shifting and changes in the duration of Internship, Evaluation of Internship in Semester V of B.Sc. Computer Science for 2024 - 2025 batch and onwards and recommend to the Academic Council, Cauvery College for Women (Autonomous), Trichy, with the following changes for

1. The duration of the internship has been changed from 15 days to 30 days and is shifted from Semester III holidays to Semester IV holidays
2. Internship is Evaluated in Semester V with the Course Code 24UCS5INT and the Credits given is 2

Resolved to carry out the changes as given in ***Annexure C***

**RESOLUTION NO.BOS/12/25/04**

Resolved to reintroduce the CC - V and CP – VI in Semester V and to shift CC - V and CP – VI in Semester V of 2023 – 2024 batch to Semester VI of 2024 - 2025 batch of B.Sc. Computer Science for 2024-2025 batch and onwards, and recommend to the Academic Council, Cauvery College for Women (Autonomous), Trichy, with the following changes for

1. To reintroduce the CC - V - Python Programming with Course Code 24UCS5CC5, and Core Practical – VI - Python Programming(P) with Course Code 24UCS5CC6P with minor changes from Semester V of 2022 – 2023 batch to Semester V of 2024 – 2025 batch and onwards

   **CP – VII - Python Programming(P) - Course Code 24UCS5CC6P**

   **Program Included**

   - Perform Data Analysis

2. CC – V - Programming in PHP and CP – VI - Programming in PHP(P) in Semester V of the 2023–2024 batch have been shifted to Semester VI of 2024 – 2025 batch as CC – IX – Programming in PHP with Course Code 24UCS6CC9/23UCA5CC6 and CP – VII - Programming in PHP(P) with Course Code 24UCS6CC7P.

Resolved to carry out the changes as given in ***Annexure D***

**RESOLUTION NO.BOS/12/25/05**

Resolved to ratify the Credits of CC – VIII and the Position of CC – IX, and the Hours, Credits and Course Code of Project Work of Semester VI of B.Sc. Computer Science for 2024-2025 batch and onwards, and recommend to the Academic Council, Cauvery College for Women (Autonomous), Trichy, with the following changes for

1. The Credits of CC – VIII – Cloud Computing and its Applications is changed as 5 with Course Code 24UCS6CC8
2. CC – IX – Cyber Security has been changed to CC – X
3. The hours and credits for Project Work have been changed from 5 hours and 4 credits to 4 hours and 3 credits, with Course Code 24UCS6PW

Resolved to carry out the changes as given in ***Annexure E***

**RESOLUTION NO.BOS/12/25/06**

Resolved to approve the new courses AECC - III and GEC - I in Semester III of B.Sc. Computer Science with Cognitive Systems for 2024 - 2025 batch and onwards and recommend to the Academic Council, Cauvery College for Women (Autonomous), Trichy, with the following changes for

1. AECC - III – Health and Wellness with 1 Credit is introduced with Course Code 24UGHW
2. GEC – I – Introduction to NCC is introduced with Course Code 24UNC3GEC1 as one of the Elective Course for NCC Cadets

Resolved to carry out the changes as given in ***Annexure F***

**RESOLUTION NO.BOS/12/25/07**

Resolved to approve the Credits of AECC - IV and the new Course GEC - II in Semester IV of B.Sc. Computer Science with Cognitive Systems for 2024 - 2025 batch and onwards and recommend to the Academic Council, Cauvery College for Women (Autonomous), Trichy.

1. Credits of AECC - IV – Campus to Corporate is changed as 1 with Course Code 24UGCM
2. GEC - II – Specialization in Army is introduced with Course Code 24UNC4GEC2 for NCC Cadets

Resolved to carry out the changes as given in ***Annexure G***

**RESOLUTION NO.BOS/12/25/08**

Resolved to approve the shifting and changes in the duration of Internship, Evaluation of Internship in Semester V of B.Sc. Computer Science with Cognitive Systems for 2024 - 2025 batch and onwards and recommend to the Academic Council, Cauvery College for Women (Autonomous), Trichy, with the following changes for

1. The duration of the internship has been changed from 15 days to 30 days and it shifted from Semester III holidays to Semester IV holidays
2. Internship is Evaluated in Semester V with the Course Code 24UCG5INT and the Credits given is 2

Resolved to carry out the changes as given in ***Annexure H***

**RESOLUTION NO.BOS/12/25/09**

Resolved to ratify the syllabus of CC – XII in Semester VI of B.Sc. Computer Science with Cognitive Systems for 2023 - 2024 batch and onwards and recommend to the Academic Council, Cauvery College for Women (Autonomous), Trichy, with the following changes in the Syllabus for

**Core Course XII: 23UCG6CC12 - PYTHON PROGRAMMING (T & P)**

***Theory - Topics Removed***

**Unit IV**

Basic Inbuilt Python Functions for String - The *index[ ]*Operator - Traversing String with *for* and *while* Loop

**Unit V**

Object-Oriented Programming: Class, Objects and Inheritance Searching Techniques - Introduction to Sorting.

Object-Oriented Programming: Class, Objects and Inheritance: Defining Classes - The Self parameter and Adding Methods to a Class - Display Class Attributes and Methods – Special Class Attributes – Accessibility - The_ init Method(constructor) - _del_( )(Destructor method) - Method Overloading in Python - Operator Overloading – Inheritance - Types of Inheritance -Inheritance in Detail - Subclass Accessing Attributes of Parent Class -Multilevel Inheritance in Detail- Multiple Inheritance in Detail - Using super( ) - Method Overriding.

**Theory - Topics Included**

**Unit IV**

**Dictionaries:** Creating a dictionary, Accessing values, Modifying an Entry - Deleting items – Built-in Dictionary Functions and Methods – Difference between a List and a Dictionary.

**Lists:** Access values in List-Updating values in Lists - Nested lists -Basic list operations - List Methods.

**Tuple:** Creating, Accessing, Updating and Deleting Elements in a tuple – Nested tuples.

**Unit V**

**Modules: The from...import statement- Name of Module – The dir () function – Modules and Namespace.**

**File Handling:** Types of files in Python - Opening and Closing files- **Reading and Writing files**: write() and writelines() methods- append() method – read() and readlines() methods – Splitting words – File Positions.

**Practical – Program Removed**

- Types of Operators
- Control Flow
- Classes
- Objects
- Constructors
- Inheritance
- Method Overriding

**Practical – Program Included**

- Program using Modules.
- Program using Lists.
- Program using Tuples.
- Program using Dictionaries.
- Program for File Handling.

Resolved to carry out the changes as given in ***Annexure I***

Dr. A. Sahaya Jenitha, Associate Professor proposed the Vote of Thanks and expressed her gratitude for the valuable suggestions given by the internal BoS members during the BoS meeting for the period 2024 - 2025 and thanked all the members of BOS

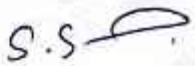
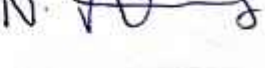
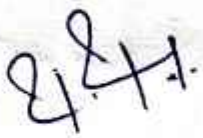
8/4/25

**Chairman of the Board**

19/4/25

**Dean of Science**

| S.NO | NAME & DESIGNATION | SIGNATURE |
|---|---|---|
| 1 | **Dr.V.Sinthu Janita**<br>**Chair Person,** Professor & Head<br>PG & Research Department of Computer Science<br>Cauvery College for Women (Autonomous)<br>Trichy. | 3/4/25 |
| 2 | **Ms.N.Girubagari**<br>**Member,** Associate Professor<br>Department of Computer Science<br>Cauvery College for Women (Autonomous),<br>Trichy. | 3/4/2025 |
| 3 | **Dr.A.R.Jasmine Begum**<br>**Member,** Associate Professor<br>Department of Computer Science<br>Cauvery College for Women (Autonomous),<br>Trichy. | 03/04/2025 |
| 4 | **Dr.H.Krishnaveni**<br>**Member & Cognitive Systems Co-Ordinator,**<br>Associate Professor<br>Department of Computer Science<br>Cauvery College for Women (Autonomous)<br>Trichy. | 03/04/2025 |
| 5 | **Dr.A.Sahaya Jenitha**<br>**Member,** Associate Professor<br>Department of Computer Science<br>Cauvery College for Women (Autonomous)<br>Trichy. | |
| 6 | **Dr.K.Pradeepa**<br>**Member,** Associate Professor<br>Department of Computer Science<br>Cauvery College for Women (Autonomous)<br>Trichy. | |
| 7 | **Ms.S.Udhayapriya**<br>**Member,** Associate Professor<br>Department of Computer Science<br>Cauvery College for Women (Autonomous)<br>Trichy. | |
| 8 | **Dr.P.Muthulakshmi**<br>**Member,** Associate Professor<br>Department of Computer Science<br>Cauvery College for Women (Autonomous)<br>Trichy. | |

| | | |
|---|---|---|
| 9 | **Ms.R.Sridevi**<br>**Member,** Associate Professor<br>Department of Computer Science<br>Cauvery College for Women (Autonomous)<br>Trichy. |  |
| 10 | **Ms.R.Rita Jenifer**<br>**Member,** Associate Professor<br>Department of Computer Science<br>Cauvery College for Women (Autonomous)<br>Trichy. |  |
| 11 | **Ms.V.Kavitha**<br>**Member,** Assistant Professor<br>Department of Computer Science<br>Cauvery College for Women (Autonomous)<br>Trichy. |  |
| 12 | **Dr.R.Sangeetha**<br>**Member,** Assistant Professor<br>Department of Computer Science<br>Cauvery College for Women (Autonomous)<br>Trichy. |  |
| 13 | **Ms.S.Saranya**<br>**Member,** Assistant Professor<br>Department of Computer Science<br>Cauvery College for Women (Autonomous)<br>Trichy. |  |
| 14 | **Ms.N.Agalya**<br>**Member,** Assistant Professor<br>Department of Computer Science<br>Cauvery College for Women (Autonomous)<br>Trichy. |  |
| 15 | **Ms.R.Ramya**<br>**Member,** Assistant Professor<br>Department of Computer Science<br>Cauvery College for Women (Autonomous)<br>Trichy. |  |
| 16 | **Dr.M.Suriya Priyadharshini**<br>**Member,** Assistant Professor<br>Department of Computer Science<br>Cauvery College for Women (Autonomous)<br>Trichy. |  |

**Cauvery College for Women (Autonomous), Tiruchirappalli -620 018**
**PG & Research Department of Computer Science**
**12th Board of Studies Meeting Held on 03/04/2025**

1. **Introduction of new courses from the academic year 2024 - 2025 based on the Feedback collected from various Stakeholders**

The Chairman of the Board Dr. V. Sinthu Janita, proposed the introduction of the following New Course(s) in the curriculum of the B.Sc., Computer Science from the Academic Year 2024-2025.

| Name of the Programme | Name of the Course | Course Code | Year of Introduction |
|---|---|---|---|
| B.Sc., Computer Science | Health and Wellness | 24UGHW | 2025 |
| | Introduction to NCC | 24UNC3GEC1 | 2025 |
| | Specialization in Array | 24UNC4GEC2 | 2025 |
| B.Sc., Computer Science with Cognitive Systems | Health and Wellness | 24UGHW | 2025 |
| | Introduction to NCC | 24UNC3GEC1 | 2025 |
| M.Sc., Computer Science | - | - | - |

2. **Revision of syllabus of the existing courses from the academic year 2024 -2025**

The Chairman of the Board, Dr. V. Sinthu Janita, proposed the revision of syllabus in the curriculum of the B.Sc., Computer Science, B.Sc., Computer Science with Cognitive Systems, and M.Sc., Computer Science from the Academic Year 2024 - 2025.

| Name of the Programme | Name of the Course | Course Code | Core/Elective | % of Content added or replaced |
|---|---|---|---|---|
| B.Sc., Computer Science | Python Programming(P) | 24UCS5CC6P | Core | 10% |
| B.Sc., Computer Science with Cognitive Systems | Python Programming (T & P) | 24UCG6CC12 | Core | 30% |
| M.Sc., Computer Science | - | - | - | - |

3/4/25
**Chairman of the Board**

19/4/25
**Dean of Science**

# CAUVERY COLLEGE FOR WOMEN(AUTONOMOUS)

**Nationally Accredited with 'A$^{+}$' Grade by NAAC**

**TIRUCHIRAPPALLI**

## PG AND RESEARCH DEPARTMENT OF COMPUTER SCIENCE

# B.Sc. COMPUTER SCIENCE

# SYLLABUS

## 2024 -2025 and Onwards

**Cauvery College for Women(Autonomous), Trichy**
PG & Research Department of Computer Science
B.Sc Computer Science
LEARNING OUTCOMES BASED CURRICULUM FRAMEWORK(CBCS – LOCF)
(For the Candidates admitted from the Academic year 2024-2025 and onwards)

| Semester | Part | Course | Course Title | Course Code | Inst. Hrs. / week | Credits | Exam | | | Total |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | Hrs. | Marks | | |
| | | | | | | | | Int | Ext | |
| I | I | Language Course-I (LC) | பொதுத்தமிழ்- I | 23ULT1 | 6 | 3 | 3 | 25 | 75 | 100 |
| | | | Hindi ka Samanya Gyanaur Nibandh | 23ULH1 | | | | | | |
| | | | Poetry, Grammarand History of Sanskrit Literature | 23ULS1 | | | | | | |
| | | | Foundation Course: Paper I - French I | 23ULF1 | | | | | | |
| | II | English Language Course - I (ELC) | General English -I | 23UE1 | 6 | 3 | 3 | 25 | 75 | 100 |
| | III | Core Course – I (CC) | Programming in C | 24UCS1CC1 | 5 | 5 | 3 | 25 | 75 | 100 |
| | | Core Practical - I (CP) | C Programming (P) | 24UCS1CC1P | 3 | 3 | 3 | 40 | 60 | 100 |
| | | First Allied Course- I (AC) | Essential Mathematics | 22UCS1AC1 | 4 | 3 | 3 | 25 | 75 | 100 |
| | III | First Allied Course- II (AC) | Numerical Analysis and Statistics | 22UCS1AC2 | 4 | 3 | 3 | 25 | 75 | 100 |
| | IV | Ability Enhancement Compulsory Course-I (AECC) | UGC Jeevan Kaushal-Value Education | 23UGVE | 2 | 2 | - | 100 | - | 100 |
| | **Total** | | | | **30** | **22** | | | | **700** |
| II | I | Language Course-II (LC) | பொதுத்தமிழ்- II | 23ULT2 | 6 | 3 | 3 | 25 | 75 | 100 |
| | | | Hindi Literature & Grammar - II | 22ULH2 | | | | | | |
| | | | Prose, Grammar and History of Sanskrit Literature | 23ULS2 | | | | | | |
| | | | Basic French - II | 22ULF2 | | | | | | |
| | II | English Language Course –II (ELC) | General English- II | 23UE2 | 6 | 3 | 3 | 25 | 75 | 100 |
| | III | Core Course – II (CC) | Programming in Java | 22UCS2CC2 | 5 | 5 | 3 | 25 | 75 | 100 |
| | | Core Practical - II (CP) | Java Programming (P) | 22UCS2CC2P | 3 | 3 | 3 | 40 | 60 | 100 |
| | | Core Practical -III (CP) | Data Visualization (P) | 23UCS2CC3P | 2 | 2 | 3 | 40 | 60 | 100 |
| | | First Allied Course – III (AC) | Operations Research | 22UCS2AC3 | 4 | 3 | 3 | 25 | 75 | 100 |
| | IV | Ability Enhancement Compulsory Course-II (AECC) | Environmental Studies | 22UGEVS | 2 | 2 | - | 100 | - | 100 |
| | | Ability Enhancement Compulsory Course-III (AECC) | Innovation and Entrepreneurship | 22UGIE | 2 | 1 | - | 100 | - | 100 |
| | Extra Credit Course | | SWAYAM | As per UGC Recommendation | | | | | | |
| | **Total** | | | | **30** | **22** | | | | **800** |

| Semester | Part | Course | Course Title | Course Code | Inst. Hrs. / week | Credits | Exam | | | Total |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | Hrs. | Marks | | |
| | | | | | | | | Int | Ext | |
| III | I | Language Course-III (LC) | பொதுத்தமிழ் - III | 23ULT3 | 6 | 3 | 3 | 25 | 75 | 100 |
| | | | Hindi Literature & Grammar - III | 22ULH3 | | | | | | |
| | | | Drama, Grammar and History of Sanskrit Literature | 23ULS3 | | | | | | |
| | | | Intermediate French - I | 22ULF3 | | | | | | |
| | II | English Language Course- III(ELC) | Learning Grammar Through Literature- I | 23UE3 | 6 | 3 | 3 | 25 | 75 | 100 |
| | III | Core Course– III(CC) | Data Structures & Algorithms | 23UCS3CC3 | 5 | 5 | 3 | 25 | 75 | 100 |
| | | Core Practical - IV(CP) | Data Structures (P) | 22UCS3CC4P | 3 | 3 | 3 | 40 | 60 | 100 |
| | | Second Allied Course-I (AC) | Digital & Microprocessor Fundamentals | 22UCS3AC4 | 4 | 3 | 3 | 25 | 75 | 100 |
| | | Second Allied Course- II (AP) | Digital & Microprocessor (P) | 22UCS3AC5P | 4 | 3 | 3 | 40 | 60 | 100 |
| | IV | Ability Enhancement Compulsory Course-IV (AECC) | Health and Wellness | 24UGHW | 2* | 1 | - | 100 | - | 100 |
| | | Generic Elective Course-I (GEC) | Office Automation (P) | 22UCS3GEC1P | 2 | 2 | 3 | 40 | 60 | 100 |
| | | | Basic Tamil – I | 22ULC3BT1 | | | | 25 | 75 | 100 |
| | | | Special Tamil – I | 22ULC3ST1 | | | | | | |
| | | | Introduction to NCC | 24UNC3GEC1 | | | | | | |
| | | Extra Credit Course | SWAYAM | As per UGC Recommendation | | | | | | |
| | | **Total** | | | **30** | **23** | - | - | - | **800** |
| IV | I | Language Course - IV (LC) | பொதுத்தமிழ்- IV | 23ULT4 | 6 | 3 | 3 | 25 | 75 | 100 |
| | | | Hindi Literature & Functional Hindi | 22ULH4 | | | | | | |
| | | | Alankara, Didactic and Modern Literatures and Translation | 23ULS4 | | | | | | |
| | | | Intermediate French - II | 22ULF4 | | | | | | |
| | II | English Language Course – IV (ELC) | Learning Grammar Through Literature- II | 23UE4 | 6 | 3 | 3 | 25 | 75 | 100 |
| | III | Core Course – IV(CC) | Database Management Systems | 23UCS4CC4 | 6 | 5 | 3 | 25 | 75 | 100 |
| | | Core Practical - V(CP) | SQL & PL/SQL (P) | 24UCS4CC5P | 4 | 3 | 3 | 40 | 60 | 100 |
| | | Second Allied Course-III (AC) | Microcontrollers | 22UCS4AC6 | 4 | 3 | 3 | 25 | 75 | 100 |
| | IV | Generic Elective Course-II (GEC) | Multimedia (P) | 22UCS4GEC2P | 2 | 2 | 3 | 40 | 60 | 100 |
| | | | Basic Tamil – II | 22ULC4BT2 | | | | 25 | 75 | |
| | | | Special Tamil - II | 22ULC4ST2 | | | | | | |
| | | | Specialization in Army | 24UNC4GEC2 | | | | | | |
| | | Skill Enhancement Course – I (SEC) | Web Designing (P) | 22UCS4SEC1P | 2 | 2 | 3 | 40 | 60 | 100 |
| | | Extra Credit Course | SWAYAM | As per UGC Recommendation | | | | | | |
| | | **Total** | | | **30** | **21** | - | - | - | **700** |
| **30 Days INTERNSHIP during Semester Holidays** | | | | | | | | | | |

| Semester | Part | Course | Course Title | Course Code | Inst. Hrs. / week | Credits | Exam | | | Total |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | Hrs. | Marks | | |
| | | | | | | | | Int | Ext | |
| V | III | Core Course – V(CC) | Python Programming | 24UCS5CC5 | 6 | 5 | 3 | 25 | 75 | 100 |
| | | Core Practical – VI(CP) | Python Programming (P) | 22UCS5CC6P | 3 | 3 | 3 | 40 | 60 | 100 |
| | | Core Course - VI(CC) | Operating Systems | 23UCS5CC6 | 6 | 5 | 3 | 25 | 75 | 100 |
| | | Core Course – VII(CC) | Computer Networks | 23UCS5CC7 | 6 | 5 | 3 | 25 | 75 | 100 |
| | | Internship | Internship | 24UCS5INT | - | 2 | - | 25 | 75 | 100 |
| | | Discipline Specific Elective – I (DSE) | A. ComputerArchitecture | 23UCS5DSE1A | 5 | 3 | 3 | 25 | 75 | 100 |
| | | | B. Computer Graphics | 23UCS5DSE1B | | | | | | |
| | | | C. Artificial Intelligence | 23UCS5DSE1C | | | | | | |
| | IV | Ability Enhancement Compulsory Course-V(AECC) | UGC Jeevan Kaushal - Professional Skills | 22UGPS | 2 | 2 | - | 100 | - | 100 |
| | | Skill Enhancement Course – II(SEC) | CISCO Packet Tracer(P) | 22UCS5SEC2P | 2 | 2 | 3 | 40 | 60 | 100 |
| | | **Total** | | | **30** | **27** | - | - | - | **800** |
| VI | III | Core Course – VIII(CC) | Cloud Computing and its Applications | 24UCS6CC8 | 6 | 5 | 3 | 25 | 75 | 100 |
| | | Core Course – IX(CC) | Programming in PHP | 24UCS6CC9 | 6 | 5 | 3 | 25 | 75 | 100 |
| | | Core Practical –VII(CP) | Programming in PHP(P) | 24UCS6CC7P | 3 | 3 | 3 | 40 | 60 | 100 |
| | | Core Course – X (CC) | Cyber Security | 22UGCS | 5 | 4 | 3 | 25 | 75 | 100 |
| | | Discipline Specific Elective – II(DSE) | A. Software Engineering | 23UCS6DSE2A | 5 | 3 | 3 | 25 | 75 | 100 |
| | | | B. Fundamentalsof Big data & IoT | 23UCS6DSE2B | | | | | | |
| | | | C. Open SourceTechnologies | 23UCS6DSE2C | | | | | | |
| | | Project | Project Work | 24UCS6PW | 4 | 3 | - | - | 100 | 100 |
| | IV | Ability Enhancement Compulsory Course-VI (AECC) | Gender Studies | 22UGGS | 1 | 1 | - | 100 | - | 100 |
| | V | Extension activity | | 22UGEA | 0 | 1 | 0 | - | - | - |
| | | **Total** | | | **30** | **25** | - | - | - | **700** |
| | | | | | **180** | **140** | | | | **4500** |

| Semester: V | Internal Marks: 25 | | External Marks: 75 | |
|---|---|---|---|---|
| COURSE CODE | COURSE TITLE | CATEGORY | HOURS/ WEEK | CREDITS |
| 24UCS5CC5 | PYTHON PROGRAMMING | CORE | 6 | 5 |

**Course Objective**

- To provide basic idea on functions and concepts of Python programming
- To inculcate the basic techniques of Python programming
- To do input/output with files in Python
- To learn how to build and packages python modules for reusability

**Course Outcome and Cognitive Level Mapping**

On the successful completion of the course, students will be able to

| CO Number | CO Statement | Cognitive Level |
|---|---|---|
| CO1 | Identify and describe the fundamental concepts of Python programming language | K1, K2 |
| CO2 | Summarize and apply functional programming paradigms to manipulate the data | K2, K3 |
| CO3 | Examine the methods and its functionalities of Python Constructs | K4 |
| CO4 | Analyze and Assess the logical understanding skills in Python | K4, K5 |
| CO5 | Recommend Python programming concepts in the real world applications | K5 |

**Mapping of CO with PO and PSO**

| Cos | PSO1 | PSO2 | PSO3 | PSO4 | PSO5 | PO1 | PO2 | PO3 | PO4 | PO5 |
|---|---|---|---|---|---|---|---|---|---|---|
| CO1 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| CO2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 2 |
| CO3 | 3 | 3 | 3 | 2 | 3 | 3 | 3 | 3 | 3 | 3 |
| CO4 | 3 | 2 | 3 | 3 | 3 | 3 | 3 | 2 | 3 | 3 |
| CO5 | 3 | 3 | 3 | 3 | 3 | 2 | 3 | 3 | 3 | 3 |

"1" – Slight (Low) Correlation
"2" – Moderate (Medium) Correlation
"3" – Substantial (High) Correlation
"-" –indicates there is no Correlation.

**Syllabus**

| UNIT | CONTENT | HOURS | COs | COGNITIVE LEVEL |
|---|---|---|---|---|
| I | **Introduction to Python**- Features of Python- Comments in python- Identifiers and Reserved words - **Data types in Python**:- Built-in data types -Bool datatype- Sequences- Sets-Literals- **Input and Output-Operators in Python** | 16 | CO1, CO2, CO3, CO4, CO5 | K1, K2, K3, K4, K5 |
| II | **Control statements- Arrays in Python**: Creating an array-importing the array module- Indexing and Slicing-Processing the arrays-Working with array using Numpy -Mathematical operations on arrays - Comparing arrays - Working with single and multi-dimensional arrays - Attribute of an array. | 20 | CO1, CO2, CO3, CO4, CO5 | K1, K2, K3, K4, K5 |
| III | **Strings & Characters- Functions**: Defining a function - Calling a function - Returning results and multiple values from a function - Pass by object reference - Formal and Actual arguments - Local and Global variables - Recursive function - Lambdas - Decorators – Generators | 18 | CO1, CO2, CO3, CO4, CO5 | K1, K2, K3, K4, K5 |
| IV | **Lists & Tuples - Dictionaries - Modules and Packages & Programming:** Standalone Programs – Command-Line Arguments – Modules and the import Statement – Packages - The Python Standard Library | 20 | CO1, CO2, CO3, CO4, CO5 | K1, K2, K3, K4, K5 |
| V | **Systems:** Files – Directories – Programs and Processes – Calendars and Clocks. **Graphical User Interfaces:** GUI in Python – The Root Window – Fonts and Colors – Working with Containers – Canvas – Frame – Widgets – Button, Label, Text, Check button, Radio button, List box, Menu. | 16 | CO1, CO2, CO3, CO4, CO5 | K1, K2, K3, K4, K5 |
| VI | **Self-Study for Enrichment:** **(Not included for End Semester Examinations)** Python's Database Connectivity – MySQL - MongoDB.s | - | CO1, CO2, CO3, CO4, CO5 | K1, K2, K3, K4, K5 |

## Text Books

1. Dr. R. Nageswara Rao.(2017). Core Python Programming. Dreamtech Press.
   UNIT I - Chapter 1, 3, 4,5
   UNIT II - Chapter 6,7
   UNIT III - Chapter 8, 9
   UNIT IV - Chapter 10,11
   UNIT V – Chapter 22
2. Bill Lubanovic.(2016). Introducing Python. 1 st Edition, Third Release, O'Reilly
   UNIT IV - Chapter 5
   UNIT V – Chapter 10

## Reference Books

1. Eric Matthes.(2019). *Python crash course*. 2nd edition, William Pollock
2. Allen B. Downey(2015). *Think Python*. 2nd edition, O'Reilly Publishers
3. Mark Lutz(2014). *Python Pocket Reference*. O'Reilly Media
4. Wesley J. Chun(2009). *Core Python Programming*. Prentice Hall

## Web References

1. http://greenteapress.com/wp/thinkpyth on
2. http://www.tutorialspoint.com/python/
3. http://www.learnpython.org/
4. http://www.codecademy.com/en/tracks/python
5. http://www.pyschools.com/
6. https://nptel.ac.in/courses/106106145

## Pedagogy

Chalk and Talk, PPT, Discussion, Assignment, Quiz, Seminar

## Course Designers

1. Ms. S. Udhaya Priya
2. Ms. P. Muthulakshmi

| Semester: V | Internal Marks: 40 | | External Marks: 60 | |
|---|---|---|---|---|
| COURSE CODE | COURSE TITLE | CATEGORY | HOURS/ WEEK | CREDITS |
| 24UCS5CC6P | PYTHON PROGRAMMING (P) | CORE | 3 | 3 |

## Course Objective

- To read, write and debug simple Python programs
- To implement python programs with looping statement
- To represent compound data using python lists, tuples and dictionaries
- To implement in real time environment with database connectivity

## Course Outcome and Cognitive Level Mapping

On the successful completion of the course, students will be able to

| CO Number | CO Statement | Cognitive Level |
|---|---|---|
| CO1 | Identify the basic concepts of Python | K2 |
| CO2 | Write and debug simple Python programs with loops and conditions | K3 |
| CO3 | Use Python lists, tuples, dictionaries for representing compound data and apply file concept in Python | K3 |
| CO4 | Developing simple applications using Database Connectivity | K3 |
| CO5 | Construct Python programs step-wise by defining functions and calling them | K4 |

## Mapping of CO with PO and PSO

| Cos | PSO1 | PSO2 | PSO3 | PSO4 | PSO5 | PO1 | PO2 | PO3 | PO4 | PO5 |
|---|---|---|---|---|---|---|---|---|---|---|
| CO1 | 3 | 3 | 2 | 3 | 2 | 3 | 3 | 3 | 3 | 2 |
| CO2 | 3 | 3 | 3 | 3 | 2 | 3 | 3 | 2 | 3 | 2 |
| CO3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| CO4 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| CO5 | 3 | 3 | 2 | 3 | 2 | 3 | 3 | 3 | 3 | 3 |

"1" – Slight (Low) Correlation
"2" – Moderate (Medium) Correlation
"3" – Substantial (High) Correlation
"-" – indicates there is no Correlation

## List of Exercises

1. List and their built-in functions
2. Implementing Tuples
3. Working with Dictionaries
4. Strings and their built-in functions
5. Implementing Functions with Flow control
6. Packages and Modules
7. File Operations
8. Working with MySql Database
9. Working with Libraries
10. Working with GUI
11. Perform Data Analysis

## Web References

1. https://www.w3resource.com/python-exercises/
2. https://cocalc.com/
3. https://www.codechef.com/ide
4. https://www.geeksforgeeks.org/data-analysis-visualization-python/
5. https://www.edureka.co/blog/python-regex/

## Pedagogy

Power Point Presentation, Live Demonstration

## Course Designers

1. Ms. S. Udhaya Priya
2. Ms. P. Muthulakshmi

| Semester VI | Internal Mark: 25 | | External Mark: 75 | |
|---|---|---|---|---|
| **COURSE CODE** | **COURSE TITLE** | **CATEGORY** | **Hrs/Week** | **CREDITS** |
| **23UCA5CC6/ 24UCS6CC9** | **PROGRAMMING IN PHP** | **CORE** | **6** | **5** |

## Course Objectives

- STo understand the fundamentals of web programming for design a web page using PHP
- The students shall be able to develop a simple webpage using PHP with MySQL

## Course Outcomes and Cognitive Level Mapping

On the successful completion of the course, the students will be able to

| CO Number | CO Statement | Knowledge Level |
|---|---|---|
| CO1 | Outline the basic concepts in PHP Programming | K1 |
| CO2 | Describe the logical structure of PHP Programming | K2 |
| CO3 | Construct the web page using PHP Programming | K3 |
| CO4 | Analyze the PHP Programming concepts to develop Website | K4 |
| CO5 | Develop a real-time website using PHP Programming | K5 |

## Mapping of CO with PO and PSO

| | PSO1 | PSO2 | PSO3 | PSO4 | PSO5 | PO1 | PO2 | PO3 | PO4 | PO5 |
|---|---|---|---|---|---|---|---|---|---|---|
| **CO1** | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| **CO2** | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 2 |
| **CO3** | 3 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 2 | 2 |
| **CO4** | 3 | 2 | 2 | 2 | 2 | 3 | 3 | 2 | 2 | 2 |
| **CO5** | 3 | 2 | 2 | 2 | 2 | 3 | 3 | 2 | 2 | 2 |

"1" – Slight (Low) Correlation
"2" – Moderate (Medium) Correlation
"3" – Substantial (High) Correlation
"-" indicates there is no correlation.

**Syllabus**

| UNIT | CONTENT | HOURS | COS | COGNITIVE LEVEL |
|---|---|---|---|---|
| I | **Essential PHP** Essential PHP: Creating your Development Environment - Creating a First PHP Page-Mixing HTML and PHP - Printing Some Text- Printing Some HTML- More Echo Power- Using PHP "Here" Documents - Adding Comments to PHP - Variables - Constants - Data Types, Operators and Flow Control. | 18 | CO1<br>CO2<br>CO3<br>CO4<br>CO5 | K1<br>K2<br>K3<br>K4<br>K5 |
| II | **PHP Basics** Strings and Arrays - Creating Functions- Reading Data in Web Pages: Setting Up Web Pages to Communicate with PHP - Handling Text Fields and Text AreasHandling Check Boxes and Radio Buttons - Handling List Boxes, Password Controls, Hidden Controls, Image Maps, File Uploads and Buttons. | 18 | CO1<br>CO2<br>CO3<br>CO4<br>CO5 | K1<br>K2<br>K3<br>K4<br>K5 |
| III | **OOPS Concepts** Object-Oriented Programming: Creating Classes and Objects - Setting Access to Properties and Methods - Using Constructors and Destructors - Inheritance - Overriding, Overloading Methods, Autoloading Classes. Advanced Object-Oriented Programming: Creating Static Methods, Abstract Classes, Interfaces and Class Constants, Supporting Object Iteration - Using Final Keyword - Cloning Objects - Reflection | 18 | CO1<br>CO2<br>CO3<br>CO4<br>CO5 | K1<br>K2<br>K3<br>K4<br>K5 |
| IV | **Browser-Handling, Session, Cookies and FTP** PHP Browser-Handling Power – Session, Cookies and FTP: Setting, Reading, Deleting Cookies - Working with FTP - Downloading, Uploading, and Deleting a File with FTP - Creating and Removing Directories with FTP - Working with E-mail- Storing Data and Writing a Hit Counter using Sessions | 18 | CO1<br>CO2<br>CO3<br>CO4<br>CO5 | K1<br>K2<br>K3<br>K4<br>K5 |
| V | **File Handling and MySQL using PHP** File Handling - Working with Databases: Accessing the Database in PHP -Update Data into the Database- Insert Data into the Database - Delete Data from Database. | 18 | CO1<br>CO2<br>CO3<br>CO4<br>CO5 | K1<br>K2<br>K3<br>K4<br>K5 |
| VI | **Self-Study for Enrichment (Not to be included for End Semester Examination)** History of PHP – Getting PHP – PHP's Internal Data Types –Working with Database: What is Database? – Some Essential SQL – Creating a MySQL Database and Table – Putting data into the New Database. | - | CO1<br>CO2<br>CO3<br>CO4<br>CO5 | K1<br>K2<br>K3<br>K4<br>K5 |

**Textbook**

1. Steven Holzner. (2012), The Complete Reference PHP, Tata McGraw Hill Pvt.Ltd.

**References**

1. Rasmus Lerdorf, Kevin Tatroe, Peter MacIntyre. (2013), Programming PHP, 3rdEdition, O'Reilly.
2. Luke Welling, Laura Thomson. (2017), PHP and MySQL Web Development, 5thEdition, Pearson India Education Services Pvt. Ltd.

**Web References**

1. https://www.phptutorial.net/
2. https://www.javatpoint.com/php-tutorial
3. https://www.w3schools.com/php/
4. https://www.geeksforgeeks.org/php-examples/
5. https://www.tutorialspoint.com/php/index.htm

**Pedagogy**

Chalk &Talk, PowerPoint Presentation, Discussion, Assignment, Demo, Quiz and Seminar.

**Course Designers**

Ms. V. Yasodha, Assistant Professor, Department of Computer Applications.

| Semester VI | Internal Mark: 25 | | External Mark: 75 | |
|---|---|---|---|---|
| **COURSE CODE** | **COURSE TITLE** | **CATEGORY** | **Hrs/Week** | **CREDITS** |
| **24UCS6CC7P** | **PROGRAMMING IN PHP (P)** | **CORE PRACTICAL** | **3** | **3** |

## Course Objectives

- To inculcate the PHP web programming knowledge
- To create a basic knowledge about developing web page.

## Course Outcomes and Cognitive Level MappSing

On the successful completion of the course, the students will be able to

| CO Number | CO Statement | Knowledge Level |
|---|---|---|
| CO1 | Recall the syntax and semantics of PHP. | K1 |
| CO2 | Identify suitable techniques to construct a web page. | K2 |
| CO3 | Implement the PHP concepts to develop a website | K3 |
| CO4 | Analyze the logical structures which are used to the real-time applications. | K4 |
| CO5 | Develop a real-time application using PHP programming | K5 |
| | | |

## Mapping of CO with PO and PSO

| COs | PSO1 | PSO2 | PSO3 | PSO4 | PSO5 | PO1 | PO2 | PO3 | PO4 | PO5 |
|---|---|---|---|---|---|---|---|---|---|---|
| **CO1** | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| **CO2** | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 2 |
| **CO3** | 3 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 2 | 2 |
| **CO4** | 3 | 2 | 2 | 2 | 2 | 3 | 3 | 2 | 2 | 2 |
| **CO5** | 3 | 2 | 2 | 2 | 2 | 3 | 3 | 2 | 2 | 2 |

"1" – Slight (Low) Correlation
"2" – Moderate (Medium) Correlation
"3" – Substantial (High) Correlation
"-" indicates there is no correlation.

**List of Practical**

1. Basic HTML tags.
2. get() and post() methods.
3. Validation.
4. String Handling functions.
5. Arrays.
6. COOKIES.
7. SESSIONS.
8. FILE Handling.
9. Database Connection

**Web References**

1. https://www.phptutorial.net/
2. https://www.javatpoint.com/php-tutorial
3. https://www.w3schools.com/php/
4. https://www.geeksforgeeks.org/php-examples/
5. https://www.tutorialspoint.com/php/index.htm

**Pedagogy**

PowerPoint Presentations, Demonstrations and Practical Sessions.

**Course Designer**

Ms. R.Ramya

# CAUVERY COLLEGE FOR WOMEN (AUTONOMOUS)

**NATIONALLY ACCREDITED WITH "A+" GRADE BY NAAC**

**TIRUCHIRAPPALLI-18**

## PG & RESEARCH DEPARTMENT OF COMPUTER SCIENCE

# B.Sc Computer Science with Cognitive Systems

2024 - 2025 and Onwards

Cauvery College for Women (Autonomous)

PG & Research department of Computer Science

# B.Sc Computer Science with Cognitive Systems

## LEARNING OUTCOMES BASED CURRICULUM FRAMEWORK (CBCS – LOCF)

**(For the Candidates admitted from the Academic year 2024-2025 and onwards)**

| Semester | Part | Course | Course Title | Course Code | Inst. Hrs. /week | Credits | Exam | | | Total |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | Hrs. | Marks | | |
| | | | | | | | | Int | Ext | |
| I | I | Language Course-I (LC) | பொதுத்தமிழ்-I | 23ULT1 | 6 | 3 | 3 | 25 | 75 | 100 |
| | | | Hindi ka Samanya Gyanaur Nibandh | 23ULH1 | | | | | | |
| | | | Poetry, Grammer and History of Sanskrit Literature | 23ULS1 | | | | | | |
| | | | Foundation Course: Paper I - French I | 23ULF1 | | | | | | |
| | II | English Language Course- I (ELC) | General English -I | 23UE1 | 6 | 3 | 3 | 25 | 75 | 100 |
| | III | Core Course – I (CC) | Operating Systems(T & P) | 22UCG1CC1 | 4+2 | 6 | 2 | 50* | 50* | 100 |
| | | Core Practical - I (CP) | Introduction to Worksheet(P) | 22UCG1CC1P | 2 | 2 | 3 | 40 | 60 | 100 |
| | | Core Course – II (CC) | IT Cognition | 22UCG1CC2 | 3 | 3 | 3 | 25 | 75 | 100 |
| | | First Allied Course- I (AC) | Applied Mathematics | 22UCG1AC1 | 5 | 3 | 3 | 25 | 75 | 100 |
| | IV | Ability Enhancement Compulsory Course-I (AECC) | UGC Jeevan Kaushal - Value Education | 23UGVE | 2 | 2 | - | 100 | - | 100 |
| | | | | **Total** | **30** | **22** | | | | **700** |
| II | I | Language Course-II(LC) | பொதுத்தமிழ்-II | 23ULT2 | 6 | 3 | 3 | 25 | 75 | 100 |
| | | | Hindi Literature &Grammar–II | 22ULH2 | | | | | | |
| | | | Prose, Grammar and History of Sanskrit literature | 23ULS2 | | | | | | |
| | | | Basic French-II | 22ULF2 | | | | | | |
| | II | English Language Course-II(ELC) | General English - II | 23UE2 | 6 | 3 | 3 | 25 | 75 | 100 |
| | III | Core Course– III(CC) | Java Programming | 23UCG2CC3 | 4 | 4 | 3 | 25 | 75 | 100 |
| | | Core Practical-II(CP) | Java Programming (P) | 23UCG2CC2P | 2 | 2 | 3 | 40 | 60 | 100 |
| | | Core Course– IV(CC) | Information Technology Infrastructure Library | 22UCG2CC4 | 2 | 2 | 3 | 25 | 75 | 100 |
| | | First Allied Course–II(AC) | Statistics | 22UCG2AC2 | 4 | 3 | 3 | 25 | 75 | 100 |
| | | First Allied Course–III(AC) | Operations Research | 22UCG2AC3 | 4 | 3 | 3 | 25 | 75 | 100 |
| | IV | Ability Enhancement Compulsory Course-II (AECC) | Environmental Studies | 22UGEVS | 2 | 2 | - | 100 | - | 100 |
| | | | | **Total** | **30** | **22** | | | | **800** |

*T & P: ESE: 50* (Theory Exam), CIA: 50* (Practical: 40 + Theory :10)

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| III | I | Language Course-III (LC) | பொதுத்தமிழ் - III | 23ULT3 | 6 | 3 | 3 | 25 | 75 | 100 |
| | | | Hindi Literature & Grammar - III | 22ULH3 | | | | | | |
| | | | Drama, Grammar and History of Sanskrit Literature | 23ULS3 | | | | | | |
| | | | Intermediate French - I | 22ULF3 | | | | | | |
| | I | English Language Course-III (ELC) | Learning Grammar Through Literature- I | 23UE3 | 6 | 3 | 3 | 25 | 75 | 100 |
| | II | Core Course – V (CC) | Computer Networks | 23UCG3CC5 | 5 | 4 | 3 | 25 | 75 | 100 |
| | | Core Practical – III (CP) | Computer Networks (P) | 23UCG3CC3P | 2 | 2 | 3 | 40 | 60 | 100 |
| | | Core Course-VI (CC) | Infrastructure Management | 23UCG3CC6 | 5 | 4 | 3 | 25 | 75 | 100 |
| | | Second Allied Course- I (AC) | Digital Computer Fundamentals | 22UCG3AC4 | 4 | 3 | 3 | 25 | 75 | 100 |
| | V | Ability Enhancement Compulsory Course-III (AECC) | Health and Wellness | 24UGHW | 2* | 1 | | 100 | | 100 |
| | | Generic Elective Course- I (GEC) | Office Automation (P) | 22UCG3GEC1P | 2 | 2 | 3 | 40 | 60 | 100 |
| | | | Introduction to NCC | 24UNC3GEC1 | | | | 25 | 75 | |
| | | | Basic Tamil – I | 22ULC3BT1 | | | | 25 | 75 | |
| | | | Special Tamil – I | 22ULC3ST1 | | | | | | |
| | | | | **Total** | **30** | **22** | | | | **800** |

*** Health and Wellness shall be outside instruction hours**

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| V | I | Language Course - IV (LC) | பொதுத்தமிழ்- IV | 23ULT4 | 6 | 3 | 3 | 25 | 75 | 100 |
| | | | Hindi Literature & Functional Hindi | 22ULH4 | | | | | | |
| | | | Alankara, Didactic and Modern Literatures and Translation | 23ULS4 | | | | | | |
| | | | Intermediate French - II | 22ULF4 | | | | | | |
| | II | English Language Course – IV (ELC) | Learning Grammar Through Literature- II | 23UE4 | 6 | 3 | 3 | 25 | 75 | 100 |
| | III | Core Course – VII (CC) | Database Management Systems (T&P) | 23UCG4CC7 | 4+2 | 5 | 2 | 50* | 50* | 100 |
| | | Second Allied Course- II (AP) | Digital & Microprocessor (P) | 22UCG4AC5P | 3 | 2 | 3 | 40 | 60 | 100 |
| | | Second Allied Course –III (AC) | Microprocessor & Microcontrollers | 22UCG4AC6 | 5 | 4 | 3 | 25 | 75 | 100 |
| | IV | Generic Elective Course-II (GEC) | Multimedia (P) | 22UCG4GEC2P | 2 | 2 | 3 | 40 | 60 | 100 |
| | | | Specialization in Aarmy | 24UNC4GEC2 | | | | 25 | 75 | |
| | | | Basic Tamil – II | 22ULC4BT2 | | | | 25 | 75 | |
| | | | Special Tamil – II | 22ULC4ST2 | | | | | | |
| | | Ability Enhancement Compulsory Course-IV (AECC) | Campus to Corporate | 24UGCM | 2 | 1 | - | 100 | - | 100 |
| | | | | **Total** | **30** | **20** | | | | **700** |

**30 Days INTERNSHIP during Semester Holidays**

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| V | III | Core Course – VIII (CC) | Software Testing (T&P) | 23UCG5CC8 | 3+2 | 4 | 2 | 50* | 50* | 100 |
| | | Core Course- IX (CC) | Introduction to Digital Technologies (T&P) | 23UCG5CC9 | 4+2 | 5 | 2 | 50* | 50* | 100 |
| | | Core Course – X (CC) | Client Relationship Management (T&P) | 23UCG5CC10 | 4+2 | 5 | 2 | 50* | 50* | 100 |
| | | Core Course –XI (CC) | Virtualization & Cloud | 22UCG5CC11 | 4 | 4 | 2 | 25 | 75 | 100 |
| | | Discipline Specific Elective – I (DSE) | A. Computer Organization & Architecture | 22UCG5DSE1A | 5 | 4 | 3 | 25 | 75 | 100 |
| | | | B. Process Management | 22UCG5DSE1B | | | | | | |
| | | | C. Computer Graphics | 22UCG5DSE1C | | | | | | |
| | | Internship | Internship | 24UCG4INT | - | 2 | - | 25 | 75 | 100 |
| | IV | Ability Enhancement Compulsory Course-V (AECC) | UGC Jeevan Kaushal - Professional Skills | 22UGPS | 2 | 2 | - | 100 | - | 100 |
| | | Skill Enhancement Course – I (SEC) | Virtualization & Cloud ( P) | 22UCG5SEC1P | 2 | 2 | 3 | 40 | 60 | 100 |
| | | | | **Total** | **30** | **28** | | | | **800** |
| VI | III | Core Course –XII (CC) | Python Programming (T & P) | 23UCG6CC12 | 4+2 | 5 | 3 | 50* | 50* | 100 |
| | | Core Course –XIII (CC) | Data Structures & Algorithms | 23UCG6CC13 | 6 | 5 | 3 | 25 | 75 | 100 |
| | | Core Course –XIV (CC) | Cyber Security | 22UGCS | 5 | 4 | 3 | 25 | 75 | 100 |
| | | Discipline Specific Elective – II (DSE) | A. Artificial Intelligence | 22UCG6DSE2A | 5 | 4 | 3 | 25 | 75 | 100 |
| | | | B. Network Security | 22UCG6DSE2B | | | | | | |
| | | | C. Big Data & IoT | 22UCG6DSE2C | | | | | | |
| | | Project | Project Work | 22UCG6PW | 5 | 4 | - | - | 100 | 100 |
| | IV | Skill Enhancement Course – II (SEC) | HTML, CSS, JavaScript (P) | 22UCG6SEC2P | 2 | 2 | 3 | 40 | 60 | 100 |
| | V | Gender Studies | Gender Studies | 22UGGS | 1 | 1 | - | 100 | - | 100 |
| | | Extension activity | | 22UGEA | 0 | 1 | 0 | - | - | - |
| | | | | **Total** | **30** | **26** | | | | **700** |
| | | | | **Grand Total** | **180** | **140** | | | | **4500** |

*T & P: ESE: 50* (Theory Exam), CIA: 50* (Practical: 40 + Theory :10)

| Semester VI | Internal Marks: 50 | | | External Marks:50 | |
|---|---|---|---|---|---|
| COURSE CODE | COURSE TITLE | CATEGORY | HRS. / WEEK | | CREDITS |
| | | | T | P | |
| 24UCG6CC12 | PYTHON PROGRAMMING (T & P) | CORE | 4 | 2 | 5 |

**Course Objective**

- To understand the concepts of Python programming language
- To understand the knowledge of Operators, Functions and Strings
- To inculcate the knowledge of Graphics programming in Python

**Course Outcome and Cognitive Level Mapping**

On the successful completion of the course, students will be able to

| CO NUMBER | CO STATEMENTS | COGNITIVE LEVEL |
|---|---|---|
| CO1 | Recall the fundamental concepts of Python | K1 |
| CO2 | Demonstrate the problem-solving approach using Python statements | K2 |
| CO3 | Construct the Python programme using functions | K3 |
| CO4 | Analyze the Python programming concepts to develop programs | K4 |
| CO5 | Develop a Python program to solve real time problems | K5 |

**Mapping of CO with PO and PSO**

| COs | PSO1 | PSO2 | PSO3 | PSO4 | PSO5 | PO1 | PO2 | PO3 | PO4 | PO5 |
|---|---|---|---|---|---|---|---|---|---|---|
| CO1 | 2 | 3 | 2 | 1 | 2 | 3 | 3 | 3 | 3 | 3 |
| CO2 | 3 | 3 | 3 | 1 | 2 | 3 | 3 | 2 | 3 | 3 |
| CO3 | 3 | 3 | 3 | 2 | 3 | 3 | 3 | 3 | 3 | 2 |
| CO4 | 2 | 3 | 2 | 3 | 2 | 3 | 2 | 3 | 2 | 2 |
| CO5 | 3 | 3 | 2 | 2 | 2 | 3 | 2 | 3 | 3 | 3 |

"1" – Slight (Low) Correlation
"2" – Moderate (Medium) Correlation
"3" – Substantial (High) Correlation
" - " indicates there is no Correlation

**Syllabus**

**Theory**

| UNIT | CONTENT | HOURS | COs | COGNITIVE LEVEL |
|---|---|---|---|---|
| I | **Basics of Python Programming:** Introduction: Python Character Set – Token - Python Core Data Type - The *print ( )* Function - Assigning value to a variable - Multiple Assignments - Writing Simple Programs in Python - The *input( )* Function - The *eval( )* Function- Formatting Number and Strings - Python Inbuilt Functions. | 12 | CO1, CO2, CO3, CO4, CO5 | K1, K2, K3, K4, K5 |
| II | **Operators & Expressions:** Operators and Expressions - Arithmetic Operators - Operator Precedence and Associativety - Bitwise Operator. **Decision Statement:** Boolean Operators - Using Numbers with Boolean Operators - Using String with Boolean Operators - Boolean Expressions and Relational Operators. | 12 | CO1, CO2, CO3, CO4, CO5 | K1, K2, K3, K4, K5 |
| III | **Decision Statement:** Decision-Making Statements: Conditional Expressions. **Loop control Statements:** The *while* Loop - The *range( )* Function-The *for* Loop - Nested Loops - The *break* Statement - The *continue* Statement. | 12 | CO1, CO2, CO3, CO4, CO5 | K1, K2, K3, K4, K5 |
| IV | **Functions, Strings, Lists & Tuples** Syntax and Basics of a Function - Use of a Function - Parameters and Arguments in a Function - The Local and Global Scope of a Variable - The *return* Statement - Recursive Functions - The Lambda Function. **Strings:** The *str* class Immutable Strings - String Operators - String Operations. **Dictionaries:** Creating a dictionary, Accessing values, Modifying an Entry -Deleting items – Built-in Dictionary Functions and Methods - Difference between a List and a Dictionary. **Lists:** Access values in List-Updating values in Lists-Nested lists -Basic list operations-List Methods. **Tuple:** Creating, Accessing, Updating and Deleting Elements in a tuple – Nested tuples. | 12 | CO1, CO2, CO3, CO4, CO5 | K1, K2, K3, K4 ,K5 |

| | | | | |
|---|---|---|---|---|
| V | **Modules: The from…import statement- Name of Module – The dir () function – Modules and Namespace.**<br>**File Handling:** Types of files in Python - Opening and Closing files- **Reading and Writing files**: write() and writelines() methods- append() method – read() and readlines() methods – Splitting words –File Positions. | 12 | CO1,<br>CO2,<br>CO3,<br>CO4,<br>CO5 | K1,<br>K2,<br>K3,<br>K4,<br>K5 |

| | | | | |
|---|---|---|---|---|
| VI | **Self Study for Enrichment**<br>**(Not to be included for End Semester Examination)**<br>Difference between lists and tuples - Defining our own modules- Renaming and deleting files. **Exception Handling:** Errors and Exceptions – Handling Exception. | - | CO1,<br>CO2,<br>CO3,<br>CO4,<br>CO5 | K1,<br>K2,<br>K3,<br>K4,<br>K5 |

**Text Books**


1. 1. Ashok Namdev Kamthane, Amit Ashok Kamthane (2018). Programming and Problem Solving with Python. (2nd Edition). MC Graw Hill Education (Units I, II & III)
2. Reema Thareja. (2017), Python Programming using problem solving approach, 1st Edition, Oxford University Press. (Units IV, V)


**Reference Books**


1. Jeeva Jose and P. Sojan Lal (2016). Introduction to Computing and Problem Solving with Python, (1st Edition). Khanna Book Publishing
2. Ch. Satyanarayana, M Radhika Mani & B N Jagadesh (2018). *Python Programming.* (Kindle Edition). Universities Press.


**Web References**

1. https://www.tutorialspoint.com/python/index.htm
2. https://www.guru99.com/python-tutorials.html
3. https://www.programiz.com/python-programming

## Practical

### List of Exercises

1. Program using Strings
2. Program using Functions
3. Program using Modules.
4. Program using Lists.
5. Program using Tuples.
6. Program using Dictionaries.
7. Program for File Handling.

### Web References

1. https://www.shahucollegelatur.org.in/practical.pdf
2. https://www.w3schools.com/python/python_operators.asp
3. https://mindmajix.com/python/basic-operators-in-python
4. https://www.cs.otago.ac.nz/staffpriv/mccane/Downloads/PracticalProgramming.pdf

### Pedagogy

Chalk & Talk, PowerPoint Presentation, Demonstration e-Content

### Course Designers

Dr.H.Krishnaveni

| Semester IV | Internal Marks:100 | | External Marks:- | |
|---|---|---|---|---|
| **COURSE CODE** | **COURSETITLE** | **CATEGORY** | **HRS./ WEEK** | **CREDITS** |
| **24UGCM** | **CAMPUS TO CORPORATE** | **AECC** | **2** | **1** |

**Course Objective:**

- To develop confidence and competence incorporate world and BPS industry.
- To enhance communication skills, analytical thinking and professional skills.
- To enrich knowledge of vocabulary, writing skills, presentation skills and managing time and stress.

**Course Outcome with Cognitive Level**

**On the successful completion of the course, students will be able to**

| COs | CO Statement | Cognitive Level |
|---|---|---|
| **CO1** | Recall to relate BPS in Corporate society and in the world. | **K1** |
| **CO2** | Illustrate to understand the campus and corporate life in real life situations. | **K2** |
| **CO3** | Develop etiquette skills in work place and to be groomed in Professional ethics and management for higher research. | **K3** |
| **CO4** | Apply Professional skills in career and build communication skills for aholistic approach. | **K3** |
| **CO5** | Examine LSRW Skills and create a campus corporateworldforhigherprospectsandbetterlearningtot ackleproblemsin society. | **K4** |

**Mapping of CO with PO and PSO**

| COs | PSO1 | PSO2 | PSO3 | PSO4 | PSO5 | PO1 | PO2 | PO3 | PO4 | PO4 |
|---|---|---|---|---|---|---|---|---|---|---|
| **CO1** | 3 | 3 | 3 | 3 | 3 | 2 | 2 | 3 | 3 | 3 |
| **CO2** | 3 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| **CO3** | 3 | 2 | 3 | 3 | 3 | 3 | 2 | 3 | 3 | 2 |
| **CO4** | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 2 | 3 |
| **CO5** | 2 | 3 | 3 | 3 | 3 | 2 | 3 | 3 | 3 | 3 |

"1"-Slight (Low) Correlation
"2"-Moderate (Medium) Correlation
"3"-Substantial (High) Correlation
"-"- Indicates there is no Correlation

**Syllabus:**

| UNIT | CONTENT | HOURS | COs | COGNITIVE LEVEL |
|---|---|---|---|---|
| I | Overview of Corporate: Ice-breaker Session, What is Corporate?- History of Corporate. Overview of BPS Industry: What is BPS?-History of BPS – Benefits of BPS- BPS Industry In World – BPS Industry in India-TCSBPS. | 6 | CO1 CO2 CO3 CO4 CO5 | K1 K2 K3 K4 |
| II | Change Management (Understand the difference between campus and corporate life and prepare themselves for the same). Learn the Culture - Impact of your attitude and behavior - Consider the language - Establish and maintain relationship – Respect others –Be Confident –Keep on learning & consider the body language. | 6 | CO1 CO2 CO3 CO4 CO5 | K1 K2 K3 K4 |
| III | **Corporate Etiquettes:** Dressing and Grooming Skills - Workplace Etiquette - Business Etiquette –Email Etiquette – Telephone Etiquette –Meeting Etiquette & Presentation Skills. **Professional Competencies**: Analytical Thinking - Listening Skills - Time Management -Team Skills – Assertiveness - Stress Management - Participating in Group Discussion- Interview Facing - Ownership and Attention to detail. | 6 | CO1 CO2 CO3 CO4 CO5 | K1 K2 K3 K4 |
| IV | **Grammar**- Phonetics- One on One basic conversationSkillPractice.ReadingComprehension-ListeningComprehension - Improving Vocabulary – Improving Writing Skills and Comprehension while interacting face to face. | 6 | CO1 CO2 CO3 CO4 CO5 | K1 K2 K3 K4 |
| V | Recitation of short stories - Interview Skills – Group Discussion - Social Conversation Skills- Presentation & One Act Plays. | 6 | CO1 CO2 CO3 CO4 CO5 | K1 K2 K3 K4 |
| VI | **Self – Study for Enrichment** **(Not to be included for End Semester Examinations)** Communication skills, Leadership Qualities, Panel Interview, Screening or Telephonic interview | - | CO1 CO2 CO3 CO4 CO5 | K1 K2 K3 K4 |

## Suggested Readings


1. Alex, K. (2009). *Soft Skills.* New Delhi: S.Chand and Company Ltd.
2. Dr. RitaShanthakumar and Dr. S. Jayashree Agarwal .*Handbook of Professional Skills*


## Web References

1. https://www.careerizma.com/blog/how-to-behave-corporate-world/
2. https://www.business-standard.com/company/tcs-5400/information/company-history
3. https://www.britannica.com/science/phonetics

## Pedagogy

Power Point Presentation, Discussion, Quiz

## Course Designer

TCS

## Assessment Rubrics for 100 Marks

1. **Mock Interview–25 Marks**
2. **Panel Discussion– 25 Marks**
3. **Quiz– 25 Marks**
4. **Debate (or) Elocution - 25 Marks**

# ANNEXURE K

**CAUVERY COLLEGE FOR WOMEN (AUTONOMOUS)**

**Nationally Accredited (IV Cycle) with A+ Grade by NAAC**

**Annamalai Nagar, Tiruchirappalli.**

## DEPARTMENT OF COMPUTER APPLICATIONS

## MINUTES OF THE TWELFTH MEETING OF THE BOS

**DATE : 29.03.2025**

**VENUE : CA3 LAB**

**TIME : 10.30 a.m.**

**Members Present:**

| | | |
|---|---|---|
| 1. | Dr. R. Merlin Packiam | Chairperson, Professor & Head |
| 2. | Dr. R. Brendha | Member |
| 3. | Dr. T. Julie Mary | Member |
| 4. | Dr. N. Sivapriya | Member |
| 5. | Ms. A. Anandhavalli | Member |
| 6. | Dr. Lakshna Arun | Member |
| 7. | Ms. V. Yasodha | Member |
| 8. | Ms. V. Infine Sinduja | Member |
| 9. | Ms. M. Ellakkiya | Member |
| 10. | Ms. A. Jabeen | Member |

## ACTION TAKEN REPORT OF THE BOS HELD ON 15.10.2024

The BoS Meeting was held on 15.10.2024 at 10.30 a.m. The Chairman of the BoS read the minutes of the meeting and the following Resolutions were confirmed

- Ratification of the Credits and Core Course –VI (CC): 23UCA5CC6/23UCS5CC5 – Programming in PHP, Core Practical -V(CP): 23UCA5CC5P – PHP with MYSQL (P), Core Course -VII(CC): 23UCA5CC7 – Software Engineering, Discipline Specific Elective - I (DSE): 23UCA5DSE1AP – MATLAB (P), 23UCA5DSE1BP – Data Mining (P), 23UCA5DSE1CP – R Programming (P) in V Semester for BCA for 2023-2024 batch and onwards

- Ratification of the Credits and Core Course -IX(CC): 23UCA6CC9 – Computer Networks, Core Course -X(CC): 23UCA6CC10 – Operating Systems, Discipline Specific Elective - II (DSE): 23UCA6DSE2A – Internet of Things, 23UCA6DSE2B – Artificial Intelligence, 23UCA6DSE2C – Cloud Computing in VI Semester for BCA for 2023-2024 batch and onwards

## MINUTES OF THE TWELFTH MEETING OF THE BOS HELD ON 29.03.2025

**RESOLUTION NO.BOS/12/25/01**

Resolved to introduce the new courses AECC - IV and GEC - I in Semester III of Computer Applications for 2024 - 2025 batch and onwards and recommend to the Academic Council, Cauvery College for Women (Autonomous), Trichy, with the following changes for

- AECC - IV – Health and Wellness with 1 Credit is introduced with Course Code 24UGHW

- GEC – I – Introduction to NCC is introduced with Course Code 24UNC3GEC1 as one of the Elective Course

Resolved to carry out the changes as given in ***Annexure A***

**RESOLUTION NO.BOS/12/25/02**

Resolved to ratify the Credits of the CP – IV and to approve the new course of GEC – II in Semester IV of Computer Applications for 2024 - 2025 batch and onwards and recommend to the Academic Council, Cauvery College for Women (Autonomous), Trichy, with the following changes for

- Core Practical–IV(CP) - Java Programming(P) is reduced as 3 credits with Course Code 24UCA4CC4P
- GEC - II – Specialization in Army is introduced with Course Code 24UNC4GEC2 as one of the Elective Course

Resolved to carry out the changes as given in ***Annexure B***

**RESOLUTION NO.BOS/12/25/03**

Resolved to approve the shifting and changes in the duration of Internship, Evaluation of Internship in Semester V of Computer Applications for 2024 - 2025 batch and onwards and recommend to the Academic Council, Cauvery College for Women (Autonomous), Trichy, with the following changes for

- The duration of the internship has been changed from 15 days to 30 days and it shifted from Semester III holidays to Semester IV holidays
- Internship is Evaluated in Semester V with the Course Code 24UCS5INT and the Credits given is 2

Resolved to carry out the changes as given in ***Annexure C***

**RESOLUTION NO.BOS/12/25/04**

Resolved and to ratify the Hours and Credits of VI Semester syllabus for Core Course and Project work of BCA for 2024-2025 batch and onwards and recommend to the Academic Council, Cauvery College for Women (Autonomous), Trichy. With the following revision of syllabus for

- Core Course -X(CC): 24UCA6CC10 – Operating Systems
  The Number of hours and credits of Operating Systems is increased into 6 hours and 5 credits
  Theory - Topics Removed

  **Unit 1**

  Deletion-Comparison between different operating systems -operating system structure system-components operating system service.

  **Unit II**

  Cooperating process- Inter process communication

**Unit III**

Scheduling criteria -real time scheduling Algorithm evaluation

- Core Course - Project : 24UCA6PW - Project Work

  The Number of hours and credits of Project Work is reduced into 4 hours and 3 credits

Resolved to carry out the changes as given in ***Annexure D***

Dr. Lakshna Arun, Associate Professor in the Vote of Thanks expressed her gratitude for the valuable suggestions given by the internal BoS members during the BoS meetings for the period 2024 - 2025 and thanked all the members of BOS.

**Cauvery College for Women (Autonomous), Tiruchirappalli -620 018**

**Department of Computer Applications**

**12th Board of Studies Meeting held on 29.03.2025**

1. **Introduction of new courses from the academic year 2024 - 2025 based on the Feedback collected from various Stakeholders**

The Chairman of the Board, Dr. R. Merlin Packiam, proposed the introduction of the following New Course(s) in the curriculum of the BCA from the academic Year 2024-2025.

| Name of the Programme | Name of the Course | Course Code | Year of Introduction |
|---|---|---|---|
| BCA | Health and Wellness | 24UGHW | 2025 |
| | Introduction to NCC | 24UNC3GEC1 | 2025 |
| | Specialization in Army | 24UNC4GEC2 | 2025 |

2. **Revision of syllabus of the existing courses from the academic year 2024 -2025**

The Chairman of the Board, Dr. R. Merlin Packiam, proposed the revision of syllabus and change of credits in the curriculum of the Computer Applications from the Academic Year 2024 - 2025.

| Name of the Programme | Name of the Course | Course Code | Changes of Credits | Core/Elective | % of Content added or replaced |
|---|---|---|---|---|---|
| BCA | Java Programming(P) | 24UCA4CC4P | 3 | Core | - |
| | Operating Systems | 23UCA6CC10 | 5 | Core | 10% |
| | Project Work | 24UCA6PW | 3 | Core | - |

| S.NO | NAME AND DESIGNATION | SIGNATURE |
|---|---|---|
| 1. | **Dr. R. Merlin Packiam**<br>**Chair Person,** Professor & Head, Department of Computer Applications Cauvery College for Women (Autonomous) Trichy. | |
| 2. | **Dr. R. Brendha**<br>**Member,** Associate Professor, Department of Computer Applications Cauvery College for Women (Autonomous),Trichy. | |
| 3. | **Dr. T. Julie Mary**<br>**Member,** Assistant Professor, Department of Computer Applications Cauvery College for Women (Autonomous),Trichy. | |
| 4. | **Dr. N.Sivapriya**<br>Deputy Controller of Examinations & Associate Professor<br>Department of Computer Applications<br>Cauvery College for Women (Autonomous),Trichy | |
| 5. | **Ms. A. Anandhavalli**<br>**Member,** Associate Professor, Department of Computer Applications Cauvery College for Women (Autonomous), Trichy. | |
| 6. | **Dr. Lakshna Arun**<br>**Member,** Associate Professor, Department of Computer Applications Cauvery College for Women (Autonomous), Trichy. | |
| 7. | **Ms. V. Yasodha**<br>Member, Assistant Professor,Department of Computer Applications Cauvery College for Women (Autonomous), Trichy. | |
| 8. | **Ms. V. Infine Sinduja**<br>Member, Assistant Professor, Department of Computer Applications Cauvery College for Women (Autonomous), Trichy. | |
| 9. | **Ms. M. Ellakkiya**<br>Member, Assistant Professor,Department of Computer Applications Cauvery College for Women (Autonomous), Trichy. | |
| 10. | **Ms. A. Jabeen**<br>**Member**, Assistant Professor, Department of Computer Applications Cauvery College for Women (Autonomous), Trichy. | |


GPS Map Camera
Google
Tiruchirappalli, Tamil Nadu, India
Rmmj+2c6, Tiruchirappalli, Tamil Nadu 620003, India
Lat 10.83258° Long 78.681137°
29/03/2025 10:06 AM GMT +05:30


GPS Map Camera
Google
Tiruchirappalli, Tamil Nadu, India
Rmmj+2c6, Tiruchirappalli, Tamil Nadu 620003, India
Lat 10.832596° Long 78.681138°
29/03/2025 10:04 AM GMT +05:30

# CAUVERYCOLLEGEFORWOMEN(AUTONOMOUS) DEPARTMENT OF COMPUTER APPLICATIONS

## BCA

## LEARNING OUTCOMES BASED CURRICULUM FRAME WORK (CBCS–LOCF)

**(For the Candidates admitted from the Academic year 2024-2025 and onwards)**

| Semester | Part | Course | CourseTitle | CourseCode | Inst.Hrs./ week | Credits | Exam | | | Total |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | Hrs. | Marks | | |
| | | | | | | | | Int | Ext | |
| I | I | Language Course-I(LC) | PodhuTamil–1 | 23ULT1 | 6 | 3 | 3 | 25 | 75 | 100 |
| | | | Hindika Samanya Gyanaur Nibandh | 23ULH1 | | | | | | |
| | | | Poetry, Grammar and History of Sanskrit Literature | 23ULS1 | | | | | | |
| | | | Foundation Course: Paper I- French I | 23ULF1 | | | | | | |
| | II | English Language Course- I(ELC) | General English–I | 23UE1 | 6 | 3 | 3 | 25 | 75 | 100 |
| | III | Core Course–I(CC) | Python Programming | 23UCA1CC1 | 5 | 5 | 3 | 25 | 75 | 100 |
| | | Core Practical-I(CP) | Python Programming Lab(P) | 23UCA1CC1P | 3 | 3 | 3 | 40 | 60 | 100 |
| | | First Allied Course-I (AC) | Essential Mathematics | 22UCA1AC1 | 4 | 3 | 3 | 25 | 75 | 100 |
| | | First Allied Course-II (AC) | Numerical Analysis and Statistics | 22UCA1AC2 | 4 | 3 | 3 | 25 | 75 | 100 |
| | IV | Ability Enhancement Compulsory Course-I(AECC) | Value Education | 23UGVE | 2 | 2 | - | 100 | - | 100 |
| | **Total** | | | | **30** | **22** | | | | **700** |
| II | I | Language Course–II(LC) | Podhu Tamil–II | 23ULT2 | 6 | 3 | 3 | 25 | 75 | 100 |
| | | | Hindi Literature & Grammar–II | 22ULH2 | | | | | | |
| | | | Prose, Grammer and History of Sanskrit literature | 23ULS2 | | | | | | |
| | | | Basic French–II | 22ULF2 | | | | | | |
| | II | English Language Course-II(ELC) | General English-II | 23UE2 | 6 | 3 | 3 | 25 | 75 | 100 |
| | III | Core Course–II(CC) | Programming in C++ | 23UCA2CC2 | 4 | 4 | 3 | 25 | 75 | 100 |
| | | Core Practical-II(CP) | Programming in C++(P) | 23UCA2CC2P | 3 | 3 | 3 | 40 | 60 | 100 |
| | | Core Course-III(CC) | Data Structures | 22UCA2CC3 | 3 | 3 | 3 | 25 | 75 | 100 |
| | | First Allied Course–III(AC) | Operations Research | 22UCA2AC3 | 4 | 3 | 3 | 25 | 75 | 100 |
| | IV | Ability Enhancement Compulsory Course-II (AECC) | Environmental Studies | 22UGEVS | 2 | 2 | - | 100 | - | 100 |
| | | Ability Enhancement Compulsory Course-III (AECC) | Innovation and Entrepreneurship | 22UGIE | 2 | 1 | - | 100 | - | 100 |
| | | Extra Credit Course | SWAYAM | | As per UGC Recommendation | | | | | |
| | **Total** | | | | **30** | **22** | | | | **800** |

| Semester | Part | Course | CourseTitle | CourseCode | Inst.Hrs. /week | Credits | Exam | | | Total |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | Hrs. | Marks | | |
| | | | | | | | | Int | Ext | |
| III | I | Language Course- III (LC) | Podhu Tamil–III | 23ULT3 | 6 | 3 | 3 | 25 | 75 | 100 |
| | | | Hindi Literature & Grammar -III | 22ULH3 | | | | | | |
| | | | Drama, Grammar and History of Sanskrit Literature | 23ULS3 | | | | | | |
| | | | Intermediate French-I | 22ULF3 | | | | | | |
| | II | English Language Course -III(ELC) | Learning Grammar Through Literature–I | 23UE3 | 6 | 3 | 3 | 25 | 75 | 100 |
| | III | Core Course–IV(CC) | Database Management Systems | 23UCA3CC4 | 6 | 5 | 3 | 25 | 75 | 100 |
| | | Core Practical–III(CP) | Database Management Systems (P) | 22UCA3CC3P | 3 | 3 | 3 | 40 | 60 | 100 |
| | | Second Allied Course– I (AC) | Financial Accounting | 22UCA3AC4 | 4 | 3 | 3 | 25 | 75 | 100 |
| | | Second Allied Course– II (AP) | Computer Applications in Business(P) | 23UCA3AC5P | 3 | 3 | 3 | 40 | 60 | 100 |
| | IV | Ability Enhancement Compulsory Course-IV (AECC) | Health and Wellness | 24UGHW | 2* | 1 | | 100 | | 100 |
| | | Generic Elective Course -I(GEC) | Animation Tools - I (P) | 22UCA3GEC1P | 2 | 2 | 3 | 40 | 60 | 100 |
| | | | Introduction to NCC @ | 24UNC3GEC1 | | | | 25 | 75 | |
| | | | BasicTamil-I | 22ULC3BT1 | | | | | | |
| | | | SpecialTamil-I | 22ULC3ST1 | | | | | | |
| | | **Total** | | | **30** | **23** | | | | **800** |
| IV | I | Language Course-IV (LC) | Podhu Tamil–IV | 23ULT4 | 6 | 3 | 3 | 25 | 75 | 100 |
| | | | Hindi Literature & Functional Hindi | 22ULH4 | | | | | | |
| | | | Alankara, Didactic and Modern Literatures and Translation | 23ULS4 | | | | | | |
| | | | Intermediate French–II | 22ULF4 | | | | | | |
| | II | English Language Course–IV (ELC) | Learning Grammar Through Literature - II | 23UE4 | 6 | 3 | 3 | 25 | 75 | 100 |
| | III | Core Course–V(CC) | Programming in Java | 23UCA4CC5 | 6 | 5 | 3 | 25 | 75 | 100 |
| | | Core Practical–IV(CP) | Java Programming(P) | 24UCA4CC4P | 4 | 3 | 3 | 40 | 60 | 100 |
| | | Second Allied Course-III (AC) | Business Communication | 22UCA4AC6 | 4 | 3 | 3 | 25 | 75 | 100 |
| | IV | Generic Elective Course -II(GEC) | Animation Tools - II (P) | 22UCA4GEC2P | 2 | 2 | 3 | 40 | 60 | 100 |
| | | | Specialization in Army@ | 24UNC4GEC2 | | | | 25 | 75 | |
| | | | BasicTamil- II | 22ULC4BT2 | | | | | | |
| | | | Special Tamil- II | 22ULC4ST2 | | | | | | |
| | | Skill Enhancement Course – I(SEC) | Documentation and Presentation Tools(P) | 22UCA4SEC1P | 2 | 2 | 3 | 40 | 60 | 100 |
| | | | | | **30** | **21** | | | | **700** |

**30 Days INTERNSHIP during Semester Holidays**

| Semester | Part | Course | CourseTitle | CourseCode | Inst.Hrs./ week | Credits | Exam | | | Total |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | Hrs. | Marks | | |
| | | | | | | | | Int | Ext | |
| V | III | Core Course–VI (CC) | Programming in PHP | 23UCA5CC6 | 6 | 5 | 3 | 25 | 75 | 100 |
| | | Core Practical – V (CP) | PHP with MYSQL (P) | 23UCA5CC5P | 4 | 3 | 3 | 40 | 60 | 100 |
| | | Core Course – VII (CC) | Software Engineering | 23UCA5CC7 | 6 | 5 | 3 | 25 | 75 | 100 |
| | | Core Course –VIII (CC) | Data Mining | 22UCA5CC8 | 5 | 5 | 3 | 25 | 75 | 100 |
| | | Internship | Internship | 24UCA5INT | - | 2 | - | - | - | 100 |
| | | Discipline Specific Elective I (DSE) | MAT LAB(P) | 23UCA5DSE1AP | 5 | 3 | 3 | 40 | 60 | 100 |
| | | | Data Mining(P) | 23UCA5DSE1BP | | | | | | |
| | | | R Programming(P) | 23UCA5DSE1CP | | | | | | |
| | IV | Ability Enhancement Compulsory Course – V (AECC) | UGC Jeevan Kaushal – Professional Skills | 22UGPS | 2 | 2 | - | 100 | - | 100 |
| | | Skill Enhancement Course – II (SEC) | Data Analytics using Excel (P) | 22UCA5SEC2P | 2 | 2 | 3 | 40 | 60 | 100 |
| | Extra Credit Course | | SWAYAM | | As per UGC Recommendation | | | | | |
| | **Total** | | | | **30** | **27** | | | | **800** |
| VI | III | Core Course–IX (CC) | Computer Networks | 23UCA6CC9 | 6 | 5 | 3 | 25 | 75 | 100 |
| | | Core Course – X(CC) | Operating Systems | 24UCA6CC10 | 6 | 5 | 3 | 25 | 75 | 100 |
| | | Core Practical– VI (CP) | .Net Programming(P) | 22UCA6CC6P | 3 | 3 | 3 | 40 | 60 | 100 |
| | | Core Course–XI (CC) | Cyber Security | 22UGCS | 5 | 4 | 3 | 25 | 75 | 100 |
| | | Discipline Specific Elective–II (DSE) | Internet of Things | 23UCA6DSE2A | 5 | 3 | 3 | 25 | 75 | 100 |
| | | | Artificial Intelligence | 23UCA6DSE2B | | | | | | |
| | | | Cloud Computing | 23UCA6DSE2C | | | | | | |
| | | Project | Project Work | 24UCA6PW | 4 | 3 | - | - | 100 | 100 |
| | IV | Ability Enhancement Compulsory Course-VI (AECC) | Gender Studies | 22UGGS | 1 | 1 | - | 100 | - | 100 |
| | V | Extension Activity | | 22UGEA | 0 | 1 | 0 | - | - | - |
| | | **Total** | | | **30** | **25** | | | | **700** |
| | **Grand Total** | | | | **180** | **140** | | | | **4500** |

| Semester IV | Internal Mark: 40 | | External Mark: 60 | |
|---|---|---|---|---|
| COURSE CODE | COURSE TITLE | CATEGORY | Hrs/Week | CREDITS |
| 24UCA4CC4P | Java Programming (P) | CORE | 4 | 3 |

## Course Objective

- To impart practical training on Java Programming

## Course Outcomes and Cognitive Level Mapping

| CO Number | CO Statement<br>On the successful completion of the course, the students will be able to | Cognitive Level |
|---|---|---|
| CO1 | Ability to write the programs using Classes and Objects | K3 |
| CO2 | Understand use of Inheritance and Interfaces | K2 |
| CO3 | Recognize Package concepts, String and File Handling functions | K2 |
| CO4 | Apply Multithreading and Exception Handling concepts. | K3 |
| CO5 | Create Swing programs and JDBC connection | K5 |

**Mapping of CO with PO and PSO**

| | PSO1 | PSO2 | PSO3 | PSO4 | PSO5 | PO1 | PO2 | PO3 | PO4 | PO5 |
|---|---|---|---|---|---|---|---|---|---|---|
| CO1 | 2 | 2 | 2 | 1 | 1 | 2 | 2 | 3 | 3 | 2 |
| CO2 | 3 | 2 | 3 | 1 | 1 | 3 | 3 | 3 | 3 | 2 |
| CO3 | 3 | 3 | 3 | 2 | 2 | 3 | 3 | 3 | 3 | 3 |
| CO4 | 3 | 2 | 3 | 2 | 2 | 2 | 2 | 3 | 3 | 3 |
| CO5 | 3 | 3 | 3 | 2 | 2 | 3 | 3 | 3 | 2 | 3 |

"1" – Slight (Low) Correlation

"2" – Moderate (Medium) Correlation

"3" – Substantial (High) Correlation

"-" indicates there is no correlation.

## List of Practicals

Develop a Java Program using the concept of

1. Classes and Objects
2. Constructors
3. Method Overloading
4. Inheritances
5. String Handling
6. Interfaces
7. Packages
8. Multithreading
9. Exception Handling
10. Menu and Dialog Box
11. Swing Components
12. GUI Application with JDBC

## Web References

1. https://www.programiz.com/java-programming/examples
2. https://www.geeksforgeeks.org/java-programming-examples/
3. https://www.w3schools.com/java/java_examples.asp
4. https://www.tutorialspoint.com/java/index.htm

## Pedagogy

Demo and Discussion.

## Course Designer

Ms. V. Yasodha, Assistant Professor, Department ofComputer Applications.

| Semester VI | Internal Marks:25 | | External Marks:75 | |
|---|---|---|---|---|
| COURSE CODE | COURSE TITLE | CATEGORY | HOURS/ WEEK | CREDITS |
| 24UCA6CC10 | Operating Systems | CORE | 6 | 5 |

## Course Objectives

- To understand the basic concepts of operating systems
- To understand the concept of Process Management, Synchronization
- To get in depth knowledge of various scheduling algorithm

## Course Outcomes and Cognitive Level Mapping

| CO Number | CO Statement<br>On the successful completion of the course, students will be able to | Cognitive Level |
|---|---|---|
| CO1 | Understand the conceptual view of operating systems | K1 |
| CO2 | Describe Process Management & Synchronization | K3 |
| CO3 | Explain various Scheduling and deadlock | K3 |
| CO4 | Discuss Memory Management & Mass Storage | K3, K4 |
| CO5 | Illustrate File Systems | K5 |

## Mapping of CO with PO and PSO

| COs | PSO1 | PSO2 | PSO3 | PSO4 | PSO5 | PO1 | PO2 | PO3 | PO4 | PO5 |
|---|---|---|---|---|---|---|---|---|---|---|
| CO1 | 2 | 2 | 1 | 3 | 2 | 3 | 3 | 3 | 3 | 3 |
| CO2 | 1 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 2 |
| CO3 | 3 | 3 | 3 | 2 | 1 | 3 | 3 | 3 | 3 | 3 |
| CO4 | 3 | 2 | 3 | 3 | 3 | 3 | 2 | 2 | 3 | 3 |
| CO5 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 2 | 3 |

"1"–Slight (Low) Correlation
"2"–Moderate (Medium)Correlation
"3"–Substantial (High)Correlation
"–" indicates there is no correlation.

## Syllabus

| UNIT | CONTENT | HOURS | COs | COGNITIVE LEVEL |
|---|---|---|---|---|
| I | **Introduction:** Objectives and Functions – Different Views of an OS – Evolution of Operating Systems – Types of Operating System – Comparison between different Operating Systems –Computer System Organization – Computer System Architecture – Operating System Operations – Operating System Structures: System Components – Operating system Services. | 18 | CO1, CO2, CO3, CO4, CO5 | K1, K2, K3, K4, K5 |
| II | **Process Management:** Introduction – Process Concept – Process Scheduling – Operations on Process – Cooperating Processes – Interposes Communication. Process **Synchronization:** Principles of Concurrency – Precedence Graph – Critical regions – Synchronization: Software Approaches –Semaphores. | 18 | CO1, CO2, CO3, CO4, CO5 | K1, K2, K3, K4, K5 |
| III | **Threads**: Introduction – Thread concept – Multithreading Models – Threading Issus **CPU Scheduling:** Introduction – Scheduling Concepts –Scheduling Criteria – Scheduling Algorithm – Multiprocessor Scheduling– Real–time Scheduling – Algorithm Evaluation – Thread Scheduling. | 18 | CO1, CO2, CO3, CO4, CO5 | K1, K2, K3, K4, K5 |
| IV | **Deadlock:** System Model – Deadlock Characterization –Method for Handling Deadlock – Deadlock Prevention – Deadlock Avoidance –Deadlock Detection – Deadlock Recovery. **Memory Management Strategies:** Background – Contiguous Memory Allocation – Non – Contiguous Memory Allocation – Swapping – Overlays. | 18 | CO1, CO2, CO3, CO4, CO5 | K1, K2, K3, K4, K5 |
| V | **Mass Storage:** Introduction – Disk Structure – Disk Scheduling –Disk Management – Swap Space Management – **Virtual Memory:** Demand Paging – Process creation – Page Replacement– Thrashing. **File Systems:** Introduction – Basic concept – Directories – File System Mounting – Record Blocking – File Sharing – Protection. | 18 | CO1, CO2, CO3, CO4, CO5 | K1, K2, K3, K4, K5 |
| VI | **Self – Study for Enrichment**<br>(Not to be included for End Semester Examinations)<br>OS Design Considerations for Multiprocessor and Multicore, 7 UNIX SVR4 Process Management, Buddy System, Traditional UNIX Scheduling | – | CO1, CO2, CO3, CO4, CO5 | K1, K2, K3, K4, K5 |

**TextBook**

Rohit Khurana. (2018). Operating Systems, 2nd Edition, Vikas Publishing House Pvt.Ltd, New Delhi.

## Reference Books


1. Andrew Tanenbaum. (2011). Operating Systems and Design Implementation, 3rd Edition, Pearson Education.
2. Ann Mclver McHone's, IdaFlynn. (2018). Understanding Operating Systems, 6th Edition, Engage Learning, New Delhi.


## Web References

1. https://www.geeksforgeeks.org/what-is-an-operating-system
2. https://www.gatevidyalay.com/operating-system/
3. https://www.javatpoint.com/operating-system
4. https://www.geeksforgeeks.org/cpu-scheduling-in-operating-systems/
5. https://www.scaler.com/topics/operating-system/deadlock-in-os/

## Pedagogy

Chalk and Talk, PowerPoint Presentation, Discussion, Assignment, Demo, Quiz and Seminar.

## Course Designer


Dr.T. Julie Mary, Associate Professor, Department of Computer Applications.

# ANNEXURE L

# CAUVERY COLLEGE FOR WOMEN (AUTONOMOUS)

**Nationally Accredited (IV Cycle) with "A+" Grade by NAAC**
**Annamalai Nagar, Trichy-18**

**PG DEPARTMENT OF INFORMATION TECHNOLOGY**

## Agenda for the Twelfth Meeting of BoS

**DATE : 23.04.2025**
**VENUE : NET LAB**
**TIME : 10:30 AM**

## The Agenda for the meeting is as follows

**ITEM NO: BOS/12/25/01**

To consider and to approve the PSO, the Programme structure and I Semester syllabus of M.Sc. Information Technology for 2025 -2026 batch onwards and recommend to the Academic Council, Cauvery College for Women (Autonomous), Trichy-18.

**ITEM NO: BOS/12/25/02**

To consider and to approve the new courses AECC - IV- Health and Wellness and GEC-I - Introduction to NCC for NCC cadets in Semester III of B.Sc. Information Technology for 2024 - 2025 batch and onwards and recommend to the Academic Council, Cauvery College for Women (Autonomous), Trichy.

**ITEM NO: BOS/12/25/03**

To ratify the credits of CP - IV and to approve the new course of GEC-II - Specialization in Army in Semester IV of B.Sc. Information Technology for 2024 - 2025 batch and onwards and recommend to the Academic Council, Cauvery College for Women (Autonomous), Trichy.

**ITEM NO: BOS/12/25/04**

To consider and approve the shifting and changes in the duration of Internship, Evaluation of Internship in Semester V of B.Sc. Information Technology for 2024 – 2025 batch and onwards and recommend to the Academic Council, Cauvery College for Women (Autonomous), Trichy.

**ITEM NO: BOS/12/25/05**

To ratify the Hours, Credits, syllabus and Course code of CC – X, and the Hours, Credits and Course Code of Project Work of Semester VI of B.Sc. Information Technology for 2024-2025 batch and onwards, and recommend to the Academic Council, Cauvery College for Women (Autonomous), Trichy.

**ITEM NO: BOS/12/25/06**

Any other matter with the permission of the chair

# CAUVERY COLLEGE FOR WOMEN (AUTONOMOUS)

**Nationally Accredited (IV Cycle) with "A+" Grade by NAAC**

**Annamalai Nagar, Trichy-18**

**PG DEPARTMENT OF INFORMATION TECHNOLOGY**

## MINUTES OF THE TWELFTH MEETING OF THE BoS

## Board of Studies - Department of Information Technology

**DATE** : **23.04.2025**

**VENUE** : **NET LAB**

**TIME** : **10:30 A.M**

**Members Present**

| | |
|---|---|
| 1) Dr. M.Parveen | Chairperson, Professor & HoD |
| 2) Dr. J.Sangeetha | Member |
| 3) Dr. A.Bhuvaneswari | Member |
| 4) Dr.S.Suguna Devi | Member |
| 5) Dr.P.Tamilselvi | Member |
| 6) Dr.M.Thangam | Member |

## ACTION TAKEN REPORT OF THE BOS HELD ON 06.02.2025

The Special BoS Meeting was held on 06.02.2025 at 10.00 a.m. The Chairman of the BoS read the minutes of the meeting and the following resolutions were confirmed

- Confirmation of the PSO and Programme Structure and I Semester syllabus of B.Sc. Artificial Intelligence and Machine Learning for 2025 – 2026 batch onwards
- Confirmation of the syllabi of Part III Core Course II and Allied course I of Semester I of B. Com (Business Analytics) for 2025 -2026 batch onwards

## MINUTES OF THE TWELFTH BOS MEETING HELD ON 23.04.2025

**RESOLUTION NO. BOS/12/25/01**

Considered and approved the PSO, the Programme Structure, Course Objectives, Course Outcomes and syllabi of Core Courses, Discipline Specific Elective Course -I of Semester I of M.Sc. Information Technology for 2025-2026 batch and onwards and is recommended to the Academic Council, Cauvery College for Women (Autonomous), Trichy.

- Core Course I is J2EE Technologies **(25PIT1CC1)** with 6 Hours with a total credit of 5
- Core Course II is Object Oriented Analysis and Design **(25PIT1CC2)** with 6 Hours with a total credit of 5
- Core Practical I is J2EE(P) **(25PIT1CC1P)** with 6 Hours with a total credit of 5
- Discipline Specific Elective Course-I (DSE)
    - A. Software Testing - **25PIT1DSE1A**
    - B. Software Project Management - **25PIT1DSE1B**
    - C. Agile software Process - **25PIT1DSE1C**

  With 6 Hours with a total credit of 3

**RESOLUTION NO. BOS/12/25/02**

Resolved to introduce the new courses AECC – IV and GEC - I in Semester III of B.Sc. Information Technology for 2024 - 2025 batch and onwards and recommend to the Academic Council, Cauvery College for Women (Autonomous), Trichy, with the following changes for

1. AECC - IV – Health and Wellness with 1 Credit is introduced with Course Code 24UGHW
2. GEC – I – Introduction to NCC is introduced with Course Code 24UNC3GEC1 as one of the Elective Course

**RESOLUTION NO. BOS/12/25/03**

Resolved to ratify the Credits of the CP – IV and to approve the new course of GEC – II in Semester IV of B.Sc. Information Technology for 2024 - 2025 batch and onwards and recommend to the Academic Council, Cauvery College for Women (Autonomous), Trichy, with the following changes for

1. Credits of CP – IV – Programming in JAVA(P) is changed as 3 with Course Code 24UIT4CC4P
2. GEC - II – Specialization in Army is introduced for NCC cadets with Course Code 24UNC4GEC2 as one of the Elective Course

**RESOLUTION NO.BOS/12/25/04**

Resolved to approve the shifting and changes in the duration of Internship, Evaluation of Internship in Semester V of B.Sc. Information Technology for 2024 - 2025 batch and onwards and recommend to the Academic Council, Cauvery College for Women (Autonomous), Trichy, with the following changes for

1. The duration of the internship has been changed from 15 days to 30 days and is shifted from Semester III holidays to Semester IV holidays
2. Internship is Evaluated in Semester V with the Course Code 24UIT5INT and the Credits given is 2

**RESOLUTION NO.BOS/12/25/05**

Resolved to ratify the Hours, Credits, syllabus and Course Code of CC – X, and the Hours, Credits and Course Code of Project Work of Semester VI of B.Sc. Information Technology for 2024-2025 batch and onwards, and recommend to the Academic Council, Cauvery College for Women (Autonomous), Trichy, with the following changes for

1. The Hours and Credits for CC – X – Web Technologies have been changed from 5 hours and 4 credits to 6 hours and 5 credits with Course Code 24UIT6CC10 and Updated the Concepts of arrays in Unit IV

2. The hours and credits for Project Work have been changed from 5 hours and 4 credits to 4 hours and 3 credits, with Course Code 24UIT6PW

**Signature of the External Member**

**Signature of the Chairman**

**Dr. M. Parveen**

**Signature of the Dean**

# CAUVERY COLLEGE FOR WOMEN(AUTONOMOUS)

**Nationally Accredited with 'A' Grade by NAAC**

**ISO 9001:2015 Certified**

**TIRUCHIRAPPALLI**

## DEPARTMENT OF INFORMATION TECHNOLOGY

# SYLLABUS

# 2024 - 2025

**CAUVERY COLLEGE FOR WOMEN (AUTONOMOUS)**

**Nationally accredited (III Cycle) with "A" Grade**

**ISO 9001:2015 Certified**

**Annamalai Nagar, Tiruchirappalli – 18**

# DEPARTMENT OF INFORMATION TECHNOLOGY

## Vision

The Department of Information Technology envisions to create technically competent, skilled intellectual IT professionals, efficient problem solvers, innovators and entrepreneurs to meet the current challenges of the modern computing industry.

## Mission

- To provide quality education and elevate the students towards higher educational programs
- To encourage and guide the students to improve their competency skills in information technology market

To equip the students to cater the industrial demands through providing advance training

# UG Programme Structure (Science)

Cauvery College for Women (Autonomous)

Department of Information Technology

B.Sc Information Technology

LEARNING OUTCOME BASED CURRICULUM FRAMEWORK (CBCS – LOCF)

**(For the Candidates admitted from the Academic year 2024-2025 and onwards)**

| Sem | Part | Course | Course Title | Course Code | Inst. Hrs. | Credits | Exam | | | Total |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | Hrs | Marks | | |
| | | | | | | | | Int | Ext | |
| I | I | Language Course -I (LC) | பொதுத்தமிழ் - 1 | 23ULT1 | 6 | 3 | 3 | 25 | 75 | 100 |
| | | | Hindi Ka Samanya Gyan aur Nibandh | 23ULH1 | | | | | | |
| | | | Poetry, Grammar and History of Sanskrit Literature | 23ULS1 | | | | | | |
| | | | Foundation Course: Paper I- French – I | 23ULF1 | | | | | | |
| | II | English Language Course-I(ELC) | General English -I | 23UE1 | 6 | 3 | 3 | 25 | 75 | 100 |
| | III | Core Course – I(CC) | Programming in C | 23UIT1CC1 | 5 | 5 | 3 | 25 | 75 | 100 |
| | | Core Practical - I (CP) | C Programming (P) | 23UIT1CC1P | 3 | 3 | 3 | 40 | 60 | 100 |
| | | First Allied Course-I(AC) | Essential Mathematics | 22UIT1AC1 | 4 | 3 | 3 | 25 | 75 | 100 |
| | | First Allied Course-II(AC) | Numerical Analysis and Statistics | 22UIT1AC2 | 4 | 3 | 3 | 25 | 75 | 100 |
| | IV | Ability Enhancement Compulsory Course-I (AECC) | Value Education | 23UGVE | 2 | 2 | | 100 | | 100 |
| | **Total** | | | | **30** | **22** | | | | **700** |

| Sem | Part | Course | Course Title | Course Code | Inst. Hrs. / week | Credits | Exam | | | Total |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | Hrs | Marks | | |
| | | | | | | | | Int | Ext | |
| II | I | Language Course-II(LC) | பொதுத்தமிழ் - II | 23ULT2 | 6 | 3 | 3 | 25 | 75 | 100 |
| | | | Hindi Literature & Grammar – II | 22ULH2 | | | | | | |
| | | | Prose, Grammar and History of Sanskrit literature | 23ULS2 | | | | | | |
| | | | Basic French – II | 22ULF2 | | | | | | |
| | II | English Language Course- II(ELC) | General English- II | 23UE2 | 6 | 3 | 3 | 25 | 75 | 100 |
| | III | Core Course – II (CC) | Data Structures and Algorithms | 23UIT2CC2 | 4 | 4 | 3 | 25 | 75 | 100 |
| | | Core Practical - II (CP) | Data Structures using C(P) | 23UIT2CC2P | 2 | 2 | 3 | 40 | 60 | 100 |
| | | Core Course-III (CC) | Digital Fundamentals | 22UIT2CC3 | 4 | 4 | 3 | 25 | 75 | 100 |
| | | First Allied Course-III (AC) | Operations Research | 22UIT2AC3 | 4 | 3 | 3 | 25 | 75 | 100 |
| | IV | Ability Enhancement Compulsory Course-II (AECC) | Environmental Studies | 22UGEVS | 2 | 2 | - | 100 | - | 100 |
| | | Ability Enhancement Compulsory Course-III (AECC) | Innovation and Entrepreneurship | 22UGIE | 2 | 1 | - | 100 | - | 100 |
| | | Extra Credit Course | SWAYAM | | As per UGC Recommendation | | | | | |
| | **Total** | | | | **30** | **22** | | | | **800** |

| Sem | Part | Course | Course Title | Course Code | Inst. Hrs. / week | Credits | Exam | | | Total |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | Hrs | Marks | | |
| | | | | | | | | Int | Ext | |
| III | I | Language Course-III (LC) | பொதுத்தமிழ் - III | 23ULT3 | 6 | 3 | 3 | 25 | 75 | 100 |
| | | | Hindi Literature & Grammar - III | 22ULH3 | | | | | | |
| | | | Prose, Grammar and History of Sanskrit Literature | 23ULS3 | | | | | | |
| | | | Intermediate French - I | 22ULF3 | | | | | | |
| | II | English Language Course- II(ELC) | Learning Grammar Through Literature- I | 23UE3 | 6 | 3 | 3 | 25 | 75 | 100 |
| | III | Core Course– IV(CC) | Relational Database Management Systems | 23UIT3CC4 | 6 | 5 | 3 | 25 | 75 | 100 |
| | | Core Practical - III(CP) | RDBMS (P) | 22UIT3CC3P | 3 | 3 | 3 | 40 | 60 | 100 |
| | | Second Allied Course- I(AC) | Financial Accounting | 22UIT3AC4 | 3 | 3 | 3 | 25 | 75 | 100 |
| | | Second Allied Course-II(AP) | Computer Applications in Business (P) | 23UIT3AC5P | 3 | 3 | 3 | 40 | 60 | 100 |
| | IV | Ability Enhancement Compulsory Course-IV (AECC) | Health and Wellness | 24UGHW | 2* | 1 | - | 100 | | 100 |
| | | Generic Elective Course- I (GEC) | Web Design | 22UIT3GEC1 | 2 | 2 | 3 | 25 | 75 | 100 |
| | | | Introduction to NCC | 24UNC3GEC1 | | | | | | |
| | | | Basic Tamil - I | 22ULC3BT1 | | | | | | |
| | | | Special Tamil - I | 22ULC3ST1 | | | | | | |
| | | Extra Credit Course | SWAYAM | | As per UGC Recommendation | | | | | |
| **Total** | | | | | **30** | **23** | | | | **800** |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| IV | I | Language Course IV(LC) | பொதுத்தமிழ் -IV | 23ULT4 | 6 | 3 | 3 | 25 | 75 | 100 |
| | | | Hindi Literature & Functional Hindi | 22ULH4 | | | | | | |
| | | | Alankara, Didactic and Modern Literatures and Translation | 23ULS4 | | | | | | |
| | | | Intermediate French – II | 22ULF4 | | | | | | |
| | II | English Language Course – IV(ELC) | Learning Grammar Through Literature-II | 23UE4 | 6 | 3 | 3 | 25 | 75 | 100 |
| | III | Core Course – V(CC) | Programming in JAVA | 23UIT4CC5 | 6 | 5 | 3 | 25 | 75 | 100 |
| | | Core Practical – IV(CP) | Programming in JAVA(P) | 24UIT4CC4P | 4 | 3 | 3 | 40 | 60 | 100 |
| | | Second Allied Course-III(AC) | Business Communication | 22UIT4AC6 | 4 | 3 | 3 | 25 | 75 | 100 |
| | IV | Generic Elective Course II-(GEC) | Web Design (P) | 22UIT4GEC2P | 2 | 2 | 3 | 40 | 60 | 100 |
| | | | Specialization in Army@ | 24UNC4GEC2 | | | | 25 | 75 | |
| | | | Basic Tamil – II | 22ULC4BT2 | | | | | | |
| | | | Special Tamil – II | 22ULC4ST2 | | | | | | |
| | | Skill Enhancement Course – I(SEC) | PC Packages (P) | 22UIT4SEC1P | 2 | 2 | 3 | 40 | 60 | 100 |
| | | Extra Credit Course | SWAYAM | | As per UGC Recommendation | | | | | |
| | **Total** | | | | **30** | **21** | | | | **700** |
| | **30 Days INTERNSHIP during Semester Holidays** | | | | | | | | | |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| V | III | Core Course – VI(CC) | Operating Systems | 23UIT5CC6 | 6 | 5 | 3 | 25 | 75 | 100 |
| | | Core Course - VII(CC) | Programming in Python | 23UIT5CC7 | 6 | 5 | 3 | 25 | 75 | 100 |
| | | Core Practical – V(CP) | Programming in Python (P) | 23UIT5CC5P | 4 | 3 | 3 | 40 | 60 | 100 |
| | | Core Course – VIII(CC) | Software Engineering | 22UIT5CC8 | 5 | 5 | 3 | 25 | 75 | 100 |
| | | Discipline Specific Elective – I(DSE) | A) Mobile Application Development | 23UIT5DSE1A | 5 | 3 | 3 | 25 | 75 | 100 |
| | | | B) Big Data Analytics | 23UIT5DSE1B | | | | | | |
| | | | C) Cloud Computing | 23UIT5DSE1C | | | | | | |
| | | Internship | Internship | 24UIT5INT | | 2 | - | - | - | 100 |
| | IV | Ability Enhancement Compulsory Course-IV (AECC) | UGC Jeevan Kaushal -Professional Skills | 22UGPS | 2 | 2 | - | 100 | - | 100 |
| | | Skill Enhancement Course – II(SEC) | Cloud Computing (P) | 22UIT5SEC2P | 2 | 2 | 3 | 40 | 60 | 100 |
| | | Extra Credit Course | SWAYAM | | As per UGC Recommendation | | | | | |
| | | **Total** | | | 30 | 27 | | | | **800** |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| VI | III | Core Course – IX(CC) | Computer Networks | 23UIT6CC9 | 6 | 5 | 3 | 25 | 75 | 100 |
| | | Core Course– X(CC) | Web Technologies | 24UIT6CC10 | 6 | 5 | 3 | 25 | 75 | 100 |
| | | Core Course– XI(CC) | Cyber Security | 22UGCS | 5 | 4 | 3 | 25 | 75 | 100 |
| | | Core Practical – VI(CP) | Web Technologies (P) | 22UIT6CC6P | 3 | 3 | 3 | 40 | 60 | 100 |
| | | Discipline Specific Elective – II (DSE) | A. Internet of Things | 23UIT6DSE2 A | 5 | 3 | 3 | 25 | 75 | 100 |
| | | | B.C# Programming | 23UIT6DSE2 B | | | | | | |
| | | | C. Artificial Intelligence & Expert Systems | 23UIT6DSE2 C | | | | | | |
| | | Project Work | Project Work | 24UIT6PW | 4 | 3 | - | - | 100 | 100 |
| | IV | Gender Studies | Gender Studies | 22UGGS | 1 | 1 | | - | 100 | 100 |
| | V | Extension activity | | 22UGEA | 0 | 1 | 0 | - | - | - |
| | | | | **Total** | **30** | **25** | | | | **700** |
| | | | | **Grand Total** | **180** | **140** | | | | **4500** |

**BOS MEMBER** **HOD SIGNATURE**

**DEAN OF SCIENCE**

| Semester VI | Internal Mark: 25 | | External Mark: 75 | |
|---|---|---|---|---|
| COURSE CODE | COURSE TITLE | CATEGORY | Hrs/Week | CREDITS |
| 24UIT6CC10 | WEB TECHNOLOGIES | CORE X | 6 | 5 |

**Course Objectives**

- To understand the fundamentals of HTML5
- To get the deep knowledge of HTML5 and CSS
- To develop logics using JavaScript with jQuery to create programs and applications in HTML5
- Enhance skill on problem solving by constructing algorithms

**Course Outcomes and Cognitive Level Mapping**

On the successful completion of the course, the students will be able to

| CO Number | CO Statement | Cognitive Level |
|---|---|---|
| CO1 | Define the basic concepts of HTML5, CSS, jQuery and PHP | K1 |
| CO2 | Illustrate the usage of new elements and application of CSS with HTML5 | K2 |
| CO3 | Build JavaScript Objects and jQuery methods to access HTML attributes | K3 |
| CO4 | Apply the knowledge of programming concepts to develop programs | K4 |
| CO5 | Solve real time problems using Web Technologies | K5 |

**Mapping of CO with PO and PSO**

| | PSO1 | PSO2 | PSO3 | PSO4 | PSO5 | PO1 | PO2 | PO3 | PO4 | PO5 |
|---|---|---|---|---|---|---|---|---|---|---|
| CO1 | 2 | 2 | 3 | 2 | 1 | 2 | 2 | 2 | 3 | 2 |
| CO2 | 3 | 2 | 3 | 2 | 3 | 3 | 3 | 2 | 3 | 2 |
| CO3 | 3 | 3 | 3 | 2 | 3 | 3 | 3 | 2 | 3 | 3 |
| CO4 | 3 | 2 | 3 | 2 | 3 | 2 | 2 | 2 | 3 | 3 |
| CO5 | 3 | 3 | 3 | 2 | 3 | 3 | 3 | 2 | 2 | 3 |

**"1" – Slight (Low) Correlation**

**"2" – Moderate (Medium) Correlation**

**3" – Substantial (High) Correlation**

**"-" indicates there is no correlation**

**Syllabus**

| UNIT | CONTENT | HOURS | COs | COGNITIVE LEVEL |
|---|---|---|---|---|
| I | **Overview of HTML5 and Other Web Technologies:** Introduction to HTML, JavaScript, CSS, PHP – Exploring New Features of HTML5 – Structuring an HTML Document – Exploring editors and browsers supported by HTML5 – Creating, Validating, Viewing and Saving an HTML document – **Fundamentals of HTML**: Understanding elements – Describing Data Types – Working with Text – Organizing Text in HTML – Working with Links and URLs (75) | 15 | CO1, CO2, CO3, CO4, CO5 | K1, K2, K3, K4, K5 |
| II | **HTML5 and CSS:** Creating Tables – Working with Images, Colors and Canvas – Working with Forms – Interactive Elements – Working with Multimedia – **CSS:** Overview – Backgrounds and Color Gradients – Fonts and Text Styles – Creating Boxes and Columns – Displaying, Positioning and Floating an Element – Table Layouts – Pseudo-Classes and Pseudo-Elements - Responsive web design | 15 | CO1, CO2, CO3, CO4, CO5 | K1, K2, K3, K4, K5 |
| III | **Introduction to JavaScript and jQuery :** Exploring Features, Programming Fundamentals and using JavaScript in HTML Document – JavaScript Functions, Events, Image Maps and Animations – JavaScript Objects – Working with Browser Objects – Validation, Errors, Debugging, Exception Handling and Security – **Overview of jQuery :** Fundamentals – Selectors – Methods to access HTML Attributes – Methods for Traversing – Manipulators – Events and Effects | 15 | CO1, CO2, CO3, CO4, CO5 | K1, K2, K3, K4, K5 |
| IV | **Fundamentals of PHP :** Introduction – Types of Information, Variables and Constants, Statements and Expressions – for each statement - Functions - Strings – Arrays: Creating and Working with Arrays – Looping, Sorting and Navigating Arrays – Converting Arrays To and From Strings – Joining and Splitting Arrays – Comparing Arrays – Handling Multidimensional Arrays | 15 | CO1, CO2, CO3, CO4, CO5 | K1, K2, K3, K4, K5 |
| V | **PHP Files:** File and Directory Management – Cookies, Session variables and Server variables – Building and Handling Forms in PHP – User Authentication - Database Connectivity using MySQL | 15 | CO1, CO2, CO3, CO4, CO5 | K1, K2, K3, K4, K5 |
| VI | **Self Study for Enrichment** **(Not included for End Semester Examinations)** Introduction to Web – Internet Basics – Internet Protocols – Hypertext and Hyperlinks - Web Browsers – Scripting | - | CO1, CO2, CO3, CO4, | K1, K2, K3, K4, |

| | | | | |
|---|---|---|---|---|
| | Languages, PHP Operators, Control Structures – Looping and Branching | | CO5 | K5 |

**Textbook**


1. DT Editorial Services (2016). HTML5 Black Book , 2nd Edition, Dream Tech Press, New Delhi.
2. Marty Matthews. (2015). PHP and MYSQL Web Development, Tata McGraw Hill.
3. Steve Suehring, Tim Converse, Joyce Park (2013). PHP6 and MySQL Bible, Wiley


**References**


1. DT Editorial Services (2015). HTML5 in Simple Steps, 2nd Edition, Dreamtech Press, New Delhi
2. Ben Frain (2020). Responsive Web design with HTML5 and CSS, 3rd Edition, Packt Publishing Ltd. UK
3. Robin Nixon (2018). Learning PHP, MySQL & JavaScript 5e: With jQuery, CSS & HTML5, 5th Edition, O'Reilly Publication


**Web References**

1. https://www.tutorialspoint.com/html5/index.htm
2. https://www.codecademy.com/learn/introduction-to-javascript
3. http://www.bsourcecode.com/php/basic-concepts/

**Pedagogy**

Chalk and Talk, PPT, Discussion, Assignment, Demo, Quiz and Seminar

**Course Designers**

1. Dr. M. Thangam, Associate Professor, Department of Information Technology

**BOS MEMBER** **HOD SIGNATURE**

**DEAN OF SCIENCE**

# CAUVERY COLLEGE FOR WOMEN (AUTONOMOUS)

**NATIONALLY ACCREDITED WITH A$^{+}$ GRADE BY NAAC**

**TIRUCHIRAPPALLI**

## PG DEPARTMENT OF INFORMATION TECHNOLOGY

# M. Sc. INFORMATION TECHNOLOGY SYLLABUS

**2025-2026 and Onwards**

# CAUVERY COLLEGE FOR WOMEN (AUTONOMOUS)

## PG DEPARTMENT OF INFORMATION TECHNOLOGY

## Vision

The Department of Information Technology envisions to create technically competent, skilled intellectual IT professionals, efficient problem solvers, innovators and entrepreneurs to meet the current challenges of the modern computing industry.

## Mission

➢ To provide quality education and elevate the students towards higher educational programs

➢ To encourage and guide the students to improve their competency skills in information technology market

➢ To equip the students to cater the industrial demands through providing advance training

## PROGRAMME EDUCATIONAL OBJECTIVES (PEOs)

| PEOs | Statements |
|---|---|
| PEO1 | **LEARNING ENVIRONMENT**<br>To facilitate value-based holistic and comprehensive learning by integrating innovative learning practices to match the highest quality standards and train the students to be effective leaders in their chosen fields. |
| PEO2 | **ACADEMIC EXCELLENCE**<br>To provide a conducive environment to unleash their hidden talents and to nurture the spirit of critical thinking and encourage them to achieve their goal. |
| PEO3 | **EMPLOYABILITY**<br>To equip students with the required skills in order to adapt to the changing global scenario and gain access to versatile career opportunities in multidisciplinary domains. |
| PEO4 | **PROFESSIONAL ETHICS AND SOCIAL RESPONSIBILITY**<br>To develop a sense of social responsibility by formulating ethics and equity to transform students into committed professionals with a strong attitude towards the development of the nation. |
| PEO5 | **GREEN SUSTAINABILITY**<br>To understand the impact of professional solutions in societal and environmental contexts and demonstrate the knowledge for an overall sustainable development. |

## PROGRAMME OUTCOMES FOR M.Sc. INFORMATION TECHNOLOGY PROGRAMME

| PO NO. | Programme Outcome<br>On completion of M.Sc. Information Technology<br>The students will be able to |
|---|---|
| PO1 | **DOMAIN KNOWLEDGE**<br>Acquire the in-depth computing knowledge both conceptual and applied pertaining to the core discipline |
| PO2 | **PROBLEM SOLVING**<br>Procure knowledge-based skills to satisfy the needs of society and the industry by providing hands on experience of various technologies in Computer Science |
| PO3 | **INNOVATION AND CRITICAL THINKING**<br>Critically evaluate global issues, recognize the need and identify sustainable solutions through research capabilities towards Nation building initiatives |
| PO4 | **LIFE LONG LEARNING**<br>Capable of upgrading and advancing knowledge through innovation and technology as evidenced by current developments |
| PO5 | **LEADERSHIP AND TEAMWORK**<br>Work in collaborative environment through applications of scientific reasoning and communicate effectively to the stakeholders |

**Annexure – I**

## PROGRAMME SPECIFIC OUTCOMES FOR M.Sc. INFORMATION TECHNOLOGY PROGRAMME

| PSO No. | Programme Specific Outcomes<br>Students of M.Sc. Information Technology will be able to | POs Addressed |
|---|---|---|
| PSO1 | Acquiring in-depth knowledge of computing fundamentals and advanced topics in various information technology domains. | PO1 |
| PSO2 | Pursuing lifelong learning and research as computing professionals to meet industry standards and corporate demands by providing innovative solutions. | PO1<br>PO2 |
| PSO3 | Apply theoretical foundations and practical expertise in Information Technology to develop effective, efficient, and innovative real-time solutions that contribute to societal impact. | PO2<br>PO3 |
| PSO4 | Ability to adapt to rapidly evolving IT technologies and engage in continuous learning to stay current with industry trends and challenges. | PO3<br>PO4 |
| PSO5 | Demonstrate ability to collaborate, apply scientific principles, and communicate complex solutions to stakeholders | PO4<br>PO5 |

# Cauvery College for Women (Autonomous), Trichy

PG Department of Information Technology

M.Sc. Information Technology

LEARNING OUTCOME BASED CURRICULUM FRAMEWORK (CBCS- LOCF)

**(For the Candidates admitted from the Academic year 2025-2026 and onwards)**

| Semester | Course | Course Title | Course Code | Inst. Hrs. / Week | Credits | Exam | | | Total |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | Hrs. | Marks | | |
| | | | | | | | Int. | Ext. | |
| I | Core Course– I (CC) | J2EE Technologies | 25PIT1CC1 | 6 | 5 | 3 | 25 | 75 | 100 |
| | Core Course – II (CC) | Object Oriented Analysis and Design | 25PIT1CC2 | 6 | 5 | 3 | 25 | 75 | 100 |
| | Core Course –III (CC) | Mathematical Foundation for Information Technology | 25PIT1CC3 | 6 | 5 | 3 | 25 | 75 | 100 |
| | Core Practical - I (CP) | J2EE(P) | 25PIT1CC1P | 6 | 5 | 3 | 40 | 60 | 100 |
| | Discipline Specific Elective Course-I (DSE) | A. Software Testing | 25PIT1DSE1A | 6 | 3 | 3 | 25 | 75 | 100 |
| | | B. Software Project Management | 25PIT1DSE1B | | | | | | |
| | | C. Agile software Process | 25PIT1DSE1C | | | | | | |
| | **Total** | | | **30** | **23** | - | - | - | **500** |
| **15 Days INTERNSHIP during Semester Holidays** | | | | | | | | | |
| II | Core Course– IV(CC) | Advanced Database Management Systems | 25PIT2CC4 | 6 | 5 | 3 | 25 | 75 | 100 |
| | Core Course– V(CC) | Wireless Sensor Network | 25PIT2CC5 | 6 | 5 | 3 | 25 | 75 | 100 |
| | Core Choice Course–I (CCC) | A. Internet of Things | 25PIT2CCC1A | 6 | 4 | 3 | 25 | 75 | 100 |
| | | B. Open-Source Technologies | 25PIT2CCC1B | | | | | | |
| | | C. Cloud Computing | 25PIT2CCC1C | | | | | | |
| | Core Practical-II(CP) | Advanced Database Management Systems (P) | 25PIT2CC2P | 6 | 5 | 3 | 40 | 60 | 100 |
| | Discipline Specific Elective Course-II (DSE) | A. Internet of Things (P) | 25PIT2DSE2AP | 6 | 3 | 3 | 40 | 60 | 100 |
| | | B. Open-Source Technologies(P) | 25PIT2DSE2BP | | | | | | |
| | | C. Cloud Computing (P) | 25PIT2DSE2CP | | | | | | |
| | Internship | Internship | 25PIT2INT | - | 2 | - | 25 | 75 | 100 |
| | Extra Credit Course | SWAYAM | As per UGC Recommendation | | | | | | |
| | **Total** | | | **30** | **24** | - | - | - | **600** |

| Semeser | Course | Course Title | Course Code | Inst. Hrs. / week | Credits | Exam | | | Total |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | Hrs | Marks | | |
| | | | | | | | Int. | Ext. | |
| III | Core Course– VI (CC) | Natural Language Processing | 25PIT3CC6 | 6 | 5 | 3 | 25 | 75 | 100 |
| | Core Course – VII (CC) | Data Mining Techniques and Tools | 25PIT3CC7 | 6 | 5 | 3 | 25 | 75 | 100 |
| | Core Choice Course– II (CCC) | A. Cyber Security | 22PGCS3CCC2A | 5 | 4 | 3 | 25 | 75 | 100 |
| | | B. Mobile Application Development using Android | 25PIT3CCC2B | | | | | | |
| | | C. Parallel Computing | 25PIT3CCC2C | | | | | | |
| | Core Practical - III (CP) | Data Mining Techniques and Tools Using R (P) | 25PIT3CC3P | 5 | 4 | 3 | 40 | 60 | 100 |
| | Discipline Specific Elective Course-III (DSE) | A. Computer Science for Competitive Examinations | 22PCS3DSE3A | 5 | 3 | 2 | - | 100 | 100 |
| | | B. Android Programming(P) | 25PIT3DSE3BP | | | 3 | 40 | 60 | |
| | | C. Parallel Computing (P) | 25PIT3DSE3CP | | | | | | |
| | Generic Elective Course -I (GEC) | Office Management Tools(P) | 25PIT3GEC1P | 3 | 2 | 3 | 40 | 60 | 100 |
| | Extra Credit Course | SWAYAM | As per UGC Recommendation | | | | | | |
| | **Total** | | | **30** | **23** | - | - | - | **600** |
| IV | Core Course–VIII (CC) | AI and Machine Learning | 25PIT4CC8 | 6 | 5 | 3 | 25 | 75 | 100 |
| | Core Choice Course– III (CCC) | A. Data Analysis using Python | 25PIT4CCC3A | 6 | 4 | 3 | 25 | 75 | 100 |
| | | B. Big Data Analytics | 25PIT4CCC3B | | | | | | |
| | | C Neural Networks | 25PIT4CCC3C | | | | | | |
| | Core Practical - IV (CP) | AI and Machine Learning using Python(P) | 25PIT4CC4P | 6 | 5 | 3 | 40 | 60 | 100 |
| | Generic Elective Course-II (GEC) | Content Development Tools (P) | 25PIT4GEC2P | 3 | 2 | 3 | 40 | 60 | 100 |
| | Project | Project Work | 25PIT4PW | 9 | 4 | - | - | 100 | 100 |
| | **Total** | | | **30** | **20** | | | | **500** |
| | **Grand Total** | | | **120** | **90** | | | | **2200** |

**The Internal and External marks for theory and practical courses are as follows:**

| Course | Internal Marks | External Marks |
|---|---|---|
| Theory | 25 | 75 |
| Practical | 40 | 60 |
| Project | - | 100 |
| Internship | 25 | 75 |

**For Theory courses:**

a) The passing minimum for CIA shall be 40% out of 25 marks (i.e. 10 marks)

b) The passing minimum for End Semester Examinations shall be 40% out of 75 marks (i.e. 30 marks)

c) The passing minimum not less than 50% in the aggregate

**For Practical courses:**

a) The passing minimum for CIA shall be 40% out of 40 marks (i.e. 16 marks)

b) The passing minimum for End Semester Examinations shall be 40% out of 60 marks (i.e. 24 marks)

c) The passing minimum not less than 50% in the aggregate

**For Project Work:**

a) The passing minimum not less than 50% out of 100 marks

d) For Internship:

a) The passing minimum not less than 50% in the aggregate

**BOS MEMBER** **HOD SIGNATURE**

**DEAN OF SCIENCE**

| Semester I | Internal Mark: 25 | | External Mark: 75 | |
|---|---|---|---|---|
| **COURSE CODE** | **COURSE TITLE** | **CATEGORY** | **Hrs/Week** | **CREDITS** |
| **25PIT1CC1** | **J2EE Technologies** | **Core Course - I** | **6** | **5** |

**Course Objectives**

- To explore key features and core concepts of J2EE
- To provide a comprehensive understanding of JavaServer Pages, Servlets and Entity Java Beans
- To impart knowledge on database connectivity and operations

**Course Outcomes and Cognitive Level Mapping**

On the successful completion of the course, students will be able to

| CO Number | Course Outcome | Cognitive Level |
|---|---|---|
| **CO1** | Identify and understand the key concepts of J2EE, its multi-tier architecture, and foundational technologies like HTML, XML, and XHTML, along with generating and parsing XML documents | K1, K2 |
| **CO2** | Describe and apply JSP concepts, including elements, implicit objects, error handling, Expression Language, and JSTL | K2 |
| **CO3** | Apply servlet concepts by designing HTTP server programs, managing sessions, handling exceptions, and implementing the MVC architecture | K3 |
| **CO4** | Develop different types of EJBs and analyze their use with JSP, Servlets, and design patterns in enterprise applications | K3, K4 |
| **CO5** | Analyze database operations and evaluate transaction handling and concurrency control | K4, K5 |

**Mapping of CO with PO and PSO**

| | PSO1 | PSO2 | PSO3 | PSO4 | PSO5 | PO1 | PO2 | PO3 | PO4 | PO5 |
|---|---|---|---|---|---|---|---|---|---|---|
| **CO1** | 2 | 3 | 3 | 1 | 2 | 2 | 2 | 3 | 3 | 3 |
| **CO2** | 3 | 2 | 3 | 1 | 2 | 3 | 3 | 2 | 3 | 2 |
| **CO3** | 3 | 3 | 3 | 2 | 2 | 3 | 3 | 2 | 2 | 3 |
| **CO4** | 3 | 2 | 3 | 2 | 3 | 2 | 3 | 3 | 3 | 2 |
| **CO5** | 3 | 3 | 2 | 3 | 2 | 3 | 3 | 2 | 2 | 3 |

**"1" – Slight (Low) Correlation** **"2" – Moderate (Medium) Correlation**
**"3" – Substantial (High) Correlation** **"-" indicates there is no correlation**

**SYLLABUS**

| UNIT | CONTENTS | HOURS | COs | COGNITIVE LEVEL |
|---|---|---|---|---|
| I | **J2EE ESSENTIALS:** Introduction to J2EE – Need for J2EE – J2EE Multi-Tier Architecture – Features and Concepts in J2EE – J2EE Foundation: HTML, XML and XHTML – Generating an XML document – Parsing XML | 15 | CO1, CO2, CO3, CO4, CO5 | K1, K2, K3, K4, K5 |
| II | **JAVASERVER PAGES:** Introduction to JSP – JSP Elements – Implicit Objects – Scope – Errors and Exceptions – Including and Forwarding from JSP Pages – Expression Language – Custom Actions and Tag Libraries – JavaServer Pages Standard Tag Library (JSTL) – Other Tag Libraries | 15 | CO1, CO2, CO3, CO4, CO5 | K1, K2, K3, K4, K5 |
| III | **SERVLETS:** HTTP and Server Programs – Basic Servlet Design – Request and Response Objects – Deployment Descriptors – Servlet Life Cycle – Handling Exceptions – Session Management – Filters – MVC Architecture | 15 | CO1, CO2, CO3, CO4, CO5 | K1, K2, K3, K4, K5 |
| IV | **EJB FUNDAMENTALS:** Introduction – Three kinds of EJBs – Anatomy of a Session Bean – Stateful Vs. Stateless Session Beans – Anatomy of an Entity Bean – Features of Entity Beans – Developing CMP and BMP Entity Beans – Developing Message-Driven Beans – Using JSP, Servlets and Design Patterns in EJB Applications | 15 | CO1, CO2, CO3, CO4, CO5 | K1, K2, K3, K4, K5 |
| V | **WORKING WITH DATABASES:** Connecting to Databases – Statements – Resultsets – Prepared Statements – Callable Statements – Data Sources and Connection Pools – Transactions – Locking and Isolation | 15 | CO1, CO2, CO3, CO4, CO5 | K1, K2, K3, K4, K5 |
| VI | **SELF STUDY:** Web Services – JavaMail – Remote Method Invocation – Java Message Services – J2EE Management and Deployment Specifications | - | CO1, CO2, CO3, CO4, CO5 | K1, K2, K3, K4, K5 |

**TEXT BOOKS**

1. James L. Weaver, Kevin Mukhar and James Crume, "**Beginning J2EE 1.4: From Novice to Professional",** 1st Edition, APress Media LLC, 2013
2. Jim Keogh, "**The Complete Reference: J2EE**", Tata McGraw Hill Edition, 2017

**REFERENCE BOOKS**

1. Eric Armstrong, "The J2EE 1.4 Tutorial ", 2005
2. Martin Bond, "Teach Yourself J2EE", 2002

**WEB REFERENCES**

1. https://www.java4coding.com/contents/servlet/jee-tutorial
2. https://mindmajix.com/j2ee-tutorial
3. https://www.digitalocean.com/community/tutorials/java-tutorial-java-ee-tutorials

**PEDAGOGY**

Chalk and Talk, PPT, Discussion, Assignment, Demo, Quiz and Seminar.

**COURSE DESIGNER**

Dr. M. Thangam, Associate Professor, Dept. of Information Technology

**BOS MEMBER** **HOD SIGNATURE**

**DEAN OF SCIENCE**

| Semester I | Internal Mark: 25 | | External Mark: 75 | |
|---|---|---|---|---|
| **COURSE CODE** | **COURSE TITLE** | **CATEGORY** | **Hrs/Week** | **CREDITS** |
| 25PIT1CC2 | Object Oriented Analysis and Design | Core Course – II (CC) | **6** | **5** |

**Objectives:**

- To understand the fundamentals of object analysis and design.
- To understand and differentiate Unified Process from other approaches.
- To design with static UML diagrams and identify the concept.
- To design with the UML dynamic and implementation diagrams.
- To design the software with appropriate design patterns.
- To test the software against its requirements specification techniques of conceptual UML modeling.

**Course Outcomes and Cognitive Level Mapping**

On the successful completion of the course, students will be able to

| CO Number | Course Outcome | Cognitive Level |
|---|---|---|
| **CO1** | To understand the interface between the classes and objects. | K1,K2 |
| **CO2** | Build a model for the user interface (UI) for a software application | K2,K3 |
| **CO3** | Measure the Level of User satisfaction and software quality assurance. | K3,K4 |
| **CO4** | Gain exposure from design to Implementation | K5 |
| **CO5** | Create class diagrams that model both the domain and design model of a software system. | K5 |

**Mapping of CO with PO and PSO**

| | PSO1 | PSO2 | PSO3 | PSO4 | PSO5 | PO1 | PO2 | PO3 | PO4 | PO5 |
|---|---|---|---|---|---|---|---|---|---|---|
| **CO1** | 3 | 3 | 3 | 2 | 2 | 2 | 2 | 3 | 3 | 3 |
| **CO2** | 3 | 2 | 3 | 2 | 2 | 3 | 3 | 2 | 3 | 2 |
| **CO3** | 3 | 3 | 3 | 2 | 2 | 3 | 3 | 2 | 3 | 3 |
| **CO4** | 3 | 2 | 3 | 2 | 3 | 2 | 3 | 3 | 3 | 3 |
| **CO5** | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 2 | 2 | 3 |

**"1" – Slight (Low) Correlation "2" – Moderate (Medium) Correlation**
**"3" – Substantial (High) Correlation "-" indicates there is no correlation.**

| UNIT | CONTENT | HOURS | COs | COGNITIVE LEVEL |
|---|---|---|---|---|
| I | An overview - Object basics - Object state and properties - Behavior - Methods - Messages - Information hiding - Class hierarchy - Relationships - Associations - Aggregations- Identity - Dynamic binding - Persistence - Metaclasses - Object oriented system | 15 | CO1, CO2, CO3, CO4, CO5 | K1, K2, K3, K4, K5 |
| II | Introduction - Rumbaugh, Booch, Jacobson methods - Patterns - Frameworks - Unified approach - Unified modeling language - Static and Dynamic models - UML diagrams - Class diagram - Usecase diagrams - Dynamic modeling - Model organization - Extensibility | 15 | CO1, CO2, CO3, CO4, CO5 | K1, K2, K3, K4, K5 |
| III | Identifying Usecase - Business object analysis - Usecase driven object oriented analysis - Usecase model - Documentation - Classification - Identifying object, relationships, attributes, methods - Super-sub class - A part of relationships Identifying attributes and methods - Object responsibility | 15 | CO1, CO2, CO3, CO4, CO5 | K1, K2, K3, K4, K5 |
| IV | Design process - Axioms - Designing classes - Class visibility - Refining attributes - Methods and protocols- Object storage and object interoperability - Databases - Object relational systems - Designing interface objects - The purpose of a view layer interface | 15 | CO1, CO2, CO3, CO4, CO5 | K1, K2, K3, K4, K5 |
| V | Quality assurance - Testing strategies - Object orientation testing - Test cases - Test Plan – Debugging principles - Usability - Satisfaction - Usability testing - Satisfaction testing | 15 | CO1, CO2, CO3, CO4, CO5 | K1, K2, K3, K4, K5 |

| | | | | |
|---|---|---|---|---|
| VI | UML - Examples on: Behavioural models – Structural models – Architectural models from real world problems.<br>**Case Study**-Student Admission System-Banking Systems | - | CO1, CO2, CO3, CO4, CO5 | K1, K2, K3, K4, K5 |

**TEXT BOOKS**

1. Bahrami Ali, Object oriented systems development, Irwin McGrawHill, 2005 (First 4 units covered here).
2. Booch Grady, Rumbaugh James, Jacobson Ivar, The Unified modeling language – User Guide, Pearson education, 2006 (ISBN 81-7758-372-7)

**REFERENCES BOOKS**:

1. Grady Booch, Michael W. Engel, Kelli A. Houston, Robert A. Maksimchuk, Bobbi J. Young, Jim Conallen, "Object-Oriented Analysis and Design with Applications", 3rd Edition, Pearson Education, 2009
2. Michael Blaha and James Rumbaugh, "Object-Oriented Modeling and Design with UML", 2nd Edition, Pearson Education,2005
3. Erich Gamma, Richard Helm, Ralph Johnson & John Vlissides, "Design Patterns:
4. Elements of Reusable Object-oriented Software", Pearson Education India, 2004.

**WEB REFERENCES**

https://www.tutorialspoint.com/object_oriented_analysis_design/ooad_tutorial.pdf
https://www.scribd.com/doc/74801730/Case-Study-on-Traffic-Management-System

**Course Designer**

Dr.S.Suguna Devi Dept. of Information Technology

**BOS MEMBER** **HOD SIGNATURE**

**DEAN OF SCIENCE**

| Semester I | Internal Mark: 40 | | External Mark: 60 | |
|---|---|---|---|---|
| **COURSE CODE** | **COURSE TITLE** | **CATEGORY** | **Hrs/Week** | **CREDITS** |
| **25PIT1CC1P** | **J2EE (P)** | **Core Course Practical - I** | **6** | **3** |

**COURSE OBJECTIVES**

- To deploy and manage J2EE applications
- To provide a comprehensive understanding of JavaServer Pages, Servlets and Entity Java Beans
- To impart knowledge on database connectivity and operations

**Course Outcomes and Cognitive Level Mapping**

On the successful completion of the course, students will be able to

| CO Number | Course Outcome | Cognitive Level |
|---|---|---|
| **CO1** | Understand the architecture and components of J2EE applications | K1 |
| **CO2** | Develop web-based applications using Servlets and JSP | K2 |
| **CO3** | Demonstrate session management techniques | K3 |
| **CO4** | Design and deploy enterprise-level applications using Enterprise JavaBeans | K4 |
| **CO5** | Implement database connectivity using JDBC | K5 |

**Mapping of CO with PO and PSO**

| | PSO1 | PSO2 | PSO3 | PSO4 | PSO5 | PO1 | PO2 | PO3 | PO4 | PO5 |
|---|---|---|---|---|---|---|---|---|---|---|
| **CO1** | 3 | 2 | 2 | 2 | 2 | 3 | 1 | 2 | 2 | 1 |
| **CO2** | 3 | 3 | 2 | 3 | 3 | 2 | 3 | 2 | 3 | 2 |
| **CO3** | 3 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 2 | 3 |
| **CO4** | 3 | 3 | 3 | 2 | 3 | 2 | 3 | 3 | 3 | 3 |
| **CO5** | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 2 | 3 | 3 |

**"1" – Slight (Low) Correlation** **"2" – Moderate (Medium) Correlation**
**"3" – Substantial (High) Correlation** **"-" indicates there is no correlation**

**LAB EXERCISES**

1. Create a basic HTML webpage with headings, paragraphs, and a link.
2. Write a servlet to accept username input from a form and display a greeting message.
3. Demonstrate the servlet life cycle by printing messages from `init()`, `service()`, and `destroy()` methods.
4. Implement basic session tracking using HttpSession
5. Develop a simple JSP page displaying static and dynamic content.
6. Demonstrate usage of JSP elements: Declarations, Scriplets, Expressions.
7. Create a JSP page using Expression Language (EL) to display data.
8. Create a simple Stateless Session Bean that returns a welcome message.
9. Create a simple Stateful Session Bean that stores and retrieves a student's name.
10. Write a simple JDBC program to connect to a MySQL database.
    - Insert a few student records into a database using a Java program and a PreparedStatement.
    - Retrieve and display all student names from a database table.
    - Demonstrate how to perform commit and rollback in JDBC transactions.

**COURSE DESIGNER**

Dr. M. Thangam, Associate Professor, Dept. of Information Technology

**BOS MEMBER** **HOD SIGNATURE**

**DEAN OF SCIENCE**

| Semester I | Internal Mark: 25 | | External Mark: 75 | |
|---|---|---|---|---|
| **COURSE CODE** | **COURSE TITLE** | **CATEGORY** | **Hrs/Week** | **CREDITS** |
| **25PIT1DSE1A** | **Software Testing** | **Discipline Specific Elective Course – I (DSE)** | **6** | **3** |

**Objectives:**

To study the fundamental concepts of software testing which includes objectives, process, criteria, strategies, and methods.

To discuss various software testing types and levels of testing like black and white box testing along with levels unit test, integration, regression, and system testing.

It also helps to learn the types of bugs, testing levels with which the student can very well identify a bug and correct as when it happens.

To learn the domain testing, path testing and logic based testing to explore the testing process easier.

**Course Outcomes and Cognitive Level Mapping**

On the successful completion of the course, students will be able to

| CO Number | Course Outcome | Cognitive Level |
|---|---|---|
| **CO1** | Know the basic concepts of software testing and its essentials. | K1 |
| **CO2** | Able to identify the various bugs and correcting them after knowing the consequences of the bug. | K2 |
| **CO3** | Use of program's control flow as a structural model is the corner stone of testing. | K3 |
| **CO4** | Performing functional testing using control flow and transaction flow graphs. | K4 |
| **CO5** | provides knowledge on transaction flow testing and data flow testing techniques so that the flow of the program is tested as well. | K5 |

**Mapping of CO with PO and PSO**

| | PSO1 | PSO2 | PSO3 | PSO4 | PSO5 | PO1 | PO2 | PO3 | PO4 | PO5 |
|---|---|---|---|---|---|---|---|---|---|---|
| **CO1** | 3 | 2 | 3 | 2 | 1 | 2 | 2 | 3 | 3 | 3 |
| **CO2** | 3 | 2 | 3 | 2 | 2 | 3 | 3 | 2 | 3 | 2 |
| **CO3** | 3 | 3 | 3 | 2 | 2 | 3 | 3 | 2 | 3 | 3 |
| **CO4** | 3 | 2 | 3 | 2 | 3 | 2 | 3 | 3 | 3 | 3 |
| **CO5** | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 2 | 2 | 3 |

**"1" – Slight (Low) Correlation "2" – Moderate (Medium) Correlation**
**"3" – Substantial (High) Correlation "-" indicates there is no correlation.**

| UNIT | CONTENT | HOURS | COs | COGNITIVE LEVEL |
|---|---|---|---|---|
| I | Introduction:-Purpose of testing, Dichotomies, model for testing, consequences of bugs, taxonomy of bugs, Flow graphs and Path testing:- Basics concepts of path testing, predicates, path predicates and achievable paths, path sensitizing, path instrumentation, application of path testing. | 15 | CO1, CO2, CO3, CO4, CO5 | K1, K2, K3, K4, K5 |
| II | Transaction Flow Testing:-transaction flows, transaction flow testing techniques. Dataflow testing:- Basics of dataflow testing, strategies in dataflow testing,application of dataflow testing. | 15 | CO1, CO2, CO3, CO4, CO5 | K1, K2, K3, K4, K5 |
| III | Domain Testing:-domains and paths, Nice & ugly domains, domain testing, domains and interfaces testing, domain and interface testing, domains and testability | 15 | CO1, CO2, CO3, CO4, CO5 | K1, K2, K3, K4, K5 |
| IV | Paths,Path products and Regular expressions:- path products &path expression, reduction procedure, applications, regular expressions & flow anomaly detection. Logic Based Testing:- overview,decision tables,path expressions,kev charts, specifications | 15 | CO1, CO2, CO3, CO4, CO5 | K1, K2, K3, K4, K5 |
| V | State, State Graphs and Transition testing:- state graphs, good & bad state graphs, state testing, Testability tips. Graph Matrices and Application:- Motivational overview, matrix of graph, relations, power of a matrix, node reduction algorithm, building tools | 15 | CO1, CO2, CO3, CO4, CO5 | K1, K2, K3, K4, K5 |
| VI | **Self Study for Enrichment:** **(Not included for End Semester Examination)** Implementation:Synopsis- Overview-Strategies for Programmers-Strategies for Independent Teste-r-Tests as software Products-Tools:-Test Execution Automation Test Design Automation-Tools Usage and Training | - | CO1, CO2, CO3, CO4, CO5 | K1, K2, K3, K4, K5 |

**TEXT BOOKS**

1. Software Testing techniques – Boris Beizer, Dreamtech, second edition.
2. Software Testing Tools – Dr.K.V.K.K.Prasad, Dreamtech.

**REFERENCES BOOKS**:

1. The craft of software testing – Brian Marick, Pearson Education.
2. Software Testing Techniques – SPD(Oreille)
3. Software Testing in the Real World – Edward Kit, Pearson.
4. Effective methods of Software Testing, Perry, John Wiley.
5. Art of Software Testing – Meyers, John Wiley.

**Pedagogy**

Chalk and Talk, PPT, Discussion, Assignment, Demo, Quiz and Seminar.

**Course Designer**

Dr.J. Sangeetha, Dept. of Information Technology

**BOS MEMBER** **HOD SIGNATURE**

**DEAN OF SCIENCE**

| Semester I | Internal Mark: 25 | | External Mark: 75 | |
|---|---|---|---|---|
| **COURSE CODE** | **COURSE TITLE** | **CATEGORY** | **Hrs/Week** | **CREDITS** |
| **25PIT1DSE1B** | **Software Project Management** | **Discipline Specific Elective Course – I (DSE)** | **6** | **3** |

**Objectives:**

- To introduce the primary important concepts of project management related to managing software development projects.
- To get familiar with the different activities involved in Software Project Management.
- To know how to successfully plan and implement a software project management activity, and to complete a specific project in time with the available budget

**Course Outcomes and Cognitive Level Mapping**

On the successful completion of the course, students will be able to

| CO Number | Course Outcome | Cognitive Level |
|---|---|---|
| **CO1** | Understand the fundamental principles of software project management. | K1, K2 |
| **CO2** | Apply the principles of modern software management and life cycle phases. | K3 |
| **CO3** | Examine the work flows of the software process. | K4 |
| **CO4** | Explain the responsibilities of project manager and project organizations | K5 |
| **CO5** | Develop small scale and large-scale software products. | K5 |

**Mapping of CO with PO and PSO**

| | PSO1 | PSO2 | PSO3 | PSO4 | PSO5 | PO1 | PO2 | PO3 | PO4 | PO5 |
|---|---|---|---|---|---|---|---|---|---|---|
| **CO1** | 3 | 3 | 3 | 2 | 2 | 2 | 2 | 3 | 3 | 3 |
| **CO2** | 3 | 2 | 3 | 2 | 2 | 3 | 3 | 2 | 3 | 3 |
| **CO3** | 3 | 3 | 3 | 2 | 2 | 3 | 3 | 2 | 2 | 3 |
| **CO4** | 3 | 2 | 3 | 2 | 3 | 2 | 3 | 3 | 3 | 2 |
| **CO5** | 3 | 3 | 2 | 3 | 2 | 3 | 3 | 2 | 2 | 2 |

**"1" – Slight (Low) Correlation** **"2" – Moderate (Medium) Correlation**
**"3" – Substantial (High) Correlation** **"-" indicates there is no correlation.**

| UNIT | CONTENT | HOURS | COs | COGNITIVE LEVEL |
|---|---|---|---|---|
| I | SOFTWARE MANAGEMENT & ECONOMICS: The Waterfall Model, Conventional Software Management Performance; Evolution of Software Economics - Software economics, Pragmatic software cost estimation. Improving Software Economics: Reducing software product size, improving software processes, Improving | 15 | CO1, CO2, CO3, CO4, CO5 | K1, K2, K3, K4, K5 |
| II | THE OLD AND THE NEW WAY OF PROJECT MANAGEMENT: The principles of conventional software Engineering, principles of modern software management, transitioning to an iterative process. Life cycle phases: Engineering and production stages, inception, Elaboration, construction, transition phases. Artifacts of the process: The artifact sets, Management artifacts, Engineering artifacts, programmatic artifacts. Model based software architectures : A Management perspective and technical perspective. | 15 | CO1, CO2, CO3, CO4, CO5 | K1, K2, K3, K4, K5 |
| III | WORK FLOWS OF THE PROCESS: Software process workflows, Iteration workflows. Checkpoints of the process: Major mile stones, Minor Milestones, Periodic status assessments. Iterative Process Planning: Work breakdown structures, planning guidelines, cost and schedule estimating, Iteration planning process, Pragmatic planning. | 15 | CO1, CO2, CO3, CO4, CO5 | K1, K2, K3, K4, K5 |
| IV | PROJECT ORGANIZATIONS AND RESPONSIBILITIES: Line-of-Business Organizations, Project Organizations, evolution of Organizations. Process Automation: Automation Building blocks, The Project Environment. Project Control and Process instrumentation: The seven core Metrics, Management indicators, quality indicators, life cycle expectations, pragmatic Software Metrics, Metrics automation. | 15 | CO1, CO2, CO3, CO4, CO5 | K1, K2, K3, K4, K5 |

| | | | | |
|---|---|---|---|---|
| V | Tailoring the Process: Process discriminants, Small-scale project Vs Large scale project. Looking Forward: Modern Project Profiles, Next generation Software economics. | 15 | CO1, CO2, CO3, CO4, CO5 | K1, K2, K3, K4, K5 |
| VI | **Self Study for Enrichment:** **(Not included for End Semester Examination)** The COCOMO cost estimation model, Change metrics, CCPDS-R – Core Metrics, People factors. | - | CO1, CO2, CO3, CO4, CO5 | K1, K2, K3, K4, K5 |

**TEXT BOOKS**

3. Walker Royce, "Software Project Management", 1st Edition, Pearson Education, 2006.

**REFERENCES BOOKS**:

1. Bob Hughes and Mike Cotterell, "Software Project Management", 3rd Edition, Tata McGraw Hill Edition, 2005.
2. Joel Henry, "Software Project Management", 1st Edition, Pearson Education, 2006.
3. PankajJalote, "Software Project Management in practice", 1st Edition, Pearson Education, 2005.

**WEB REFERENCE:**

https://www.tutorialspoint.com/software_engineering/software_project_management.html

https://onlinecourses.nptel.ac.in/noc19_cs70/preview

**Pedagogy**

Chalk and Talk, PPT, Discussion, Assignment, Demo, Quiz and Seminar.

**Course Designer**

Dr.A. BHUVANESWARI, Dept. of Information Technology

**BOS MEMBER** **HOD SIGNATURE**

**DEAN OF SCIENCE**

| Semester I | Internal Mark: 25 | | External Mark: 75 | |
|---|---|---|---|---|
| **COURSE CODE** | **COURSE TITLE** | **CATEGORY** | **Hrs/Week** | **CREDITS** |
| **25PIT1DSE1C** | **Agile Software Process** | **Discipline Specific Elective Course – I (DSE)** | **6** | **3** |

**Course Objective:**

1. To familiarize the students with the features of agile development.
2. To familiarize the students with basic Agile Estimation & Planning.
3. To facilitate students in understanding the Tracking Agile Projects.
4. To facilitate students in differentiating tools

**Course Outcomes and Cognitive Level Mapping**

On the successful completion of the course, students will be able to

| CO Number | Course Outcome | Cognitive Level |
|---|---|---|
| **CO1** | Describe the fundamental principles and practices associated with each of the agile development methods | K1 |
| **CO2** | Compare agile software development model with traditional development models and identify the benefits and pitfalls | K2 |
| **CO3** | Use techniques and skills to establish and mentor Agile Teams for effective software development | K3 |
| **CO4** | Apply core values and principles of Agile Methods in software development | K4 |
| **CO5** | Develop Extreme Programming | K5 |

**Mapping of CO with PO and PSO**

| | PSO1 | PSO2 | PSO3 | PSO4 | PSO5 | PO1 | PO2 | PO3 | PO4 | PO5 |
|---|---|---|---|---|---|---|---|---|---|---|
| **CO1** | 2 | 2 | 3 | 2 | 1 | 2 | 2 | 2 | 3 | 2 |
| **CO2** | 3 | 2 | 3 | 2 | 2 | 3 | 3 | 2 | 3 | 2 |
| **CO3** | 3 | 3 | 3 | 2 | 2 | 3 | 3 | 2 | 3 | 3 |
| **CO4** | 3 | 2 | 3 | 2 | 3 | 2 | 2 | 2 | 3 | 3 |
| **CO5** | 3 | 3 | 3 | 2 | 3 | 3 | 3 | 2 | 2 | 3 |

**"1" – Slight (Low) Correlation** **"2" – Moderate (Medium) Correlation**

**"3" – Substantial (High) Correlation** **"-" indicates there is no correlation.**

| UNIT | CONTENT | HOURS | COs | COGNITIVE LEVEL |
|---|---|---|---|---|
| I | Fundamentals of Agile Process: Introduction and background, Agile Manifesto and Principles, Stakeholders and Challenges, Overview of Agile Development Models: Scrum, Extreme Programming, Feature Driven Development, Crystal, Kanban, and Lean Software Development. | 15 | CO1, CO2, CO3, CO4, CO5 | K1, K2, K3, K4, K5 |
| II | Agile Projects: Planning for Agile Teams: Scrum Teams, XP Teams, General Agile Teams, Team Distribution; Agile Project Lifecycles: Typical Agile Project Lifecycles, Phase Activities, Product Vision, Release Planning: Creating the Product Backlog, User Stories, Prioritizing and Estimating, Creating the Release Plan; Monitoring and Adapting: Managing Risks and Issues, Retrospectives | 15 | CO1, CO2, CO3, CO4, CO5 | K1, K2, K3, K4, K5 |
| III | Introduction to Scrum: Agile Scrum Framework, Scrum Artifacts, Meetings, Activities and Roles, Scrum Team Simulation, Scrum Planning Principles, Product and Release Planning, Sprinting: Planning, Execution, Review and Retrospective; User story definition and Characteristics, Acceptance tests and Verifying stories, Burn down chart, Daily scrum | 15 | CO1, CO2, CO3, CO4, CO5 | K1, K2, K3, K4, K5 |
| IV | Introduction to Extreme Programming (XP): XP Lifecycle, The XP Team, XP Concepts: Refactoring, Technical Debt, Time boxing, Stories, Velocity; Adopting XP: Pre-requisites, Challenges; Applying XP: Thinking- Pair Programming, Collaborating, Release, Planning, Development | 15 | CO1, CO2, CO3, CO4, CO5 | K1, K2, K3, K4, K5 |
| V | Agile Software Design and Development: Agile design practices, Role of design Principles, Need and significance of Refactoring, Refactoring Techniques, Continuous Integration, Automated build tools, Version control; Agility and Quality Assurance: Agile Interaction Design, Agile approach to Quality Assurance, Test Driven Development, Pair programming: Issues and Challenges | 15 | CO1, CO2, CO3, CO4, CO5 | K1, K2, K3, K4, K5 |
| VI | **Self Study for Enrichment:** **(Not included for End Semester Examination)** Scrum Case Study- XP Case Study-Payroll Case Study-Weather Station Study- Proxy and Stairway to Heaven | - | CO1, CO2, CO3, CO4, CO5 | K1, K2, K3, K4, K5 |

**Recommended Books:**

1. Robert C. Martin, Agile Software Development- Principles, Patterns and Practices, Prentice Hall, 2013.
2. Kenneth S. Rubin, Essential Scrum: A Practical Guide to the Most Popular Agile Process, Addison Wesley, 2012.
3. James Shore and Shane Warden, The Art of Agile Development, O'Reilly Media, 2007.
4. Craig Larman, —Agile and Iterative Development: A manager's Guide, Addison-Wesley, 2004.
5. Ken Schawber, Mike Beedle, Agile Software Development with Scrum, Pearson, 2001.
6. Cohn, Mike, Agile Estimating and Planning, Pearson Education, 2006.
7. Cohn, Mike, User Stories Applied: For Agile Software Development Addison Wisley, 2004.

**Online Resources:**

1. IEEE Transactions on Software Engineering
2. IEEE Transactions on Dependable and Secure Computing
3. IET Software
4. ACM Transactions on Software Engineering and Methodology (TOSEM)
5. ACM SIGSOFT Software Engineering Notes

**Pedagogy**

Chalk and Talk, PPT, Discussion, Assignment, Demo, Quiz and Seminar.

**Course Designer**

Dr.J. Sangeetha, Dept. of Information Technology.

**BOS MEMBER** **HOD SIGNATURE**

**DEAN OF SCIENCE**

# CAUVERY COLLEGE FOR WOMEN (AUTONOMOUS)

**Nationally Accredited (IV Cycle) with "A+" Grade by NAAC**
**Annamalai Nagar, Trichy-18**

**PG DEPARTMENT OF INFORMATION TECHNOLOGY**

## Agenda for the Meeting of Second Special BoS

**DATE : 20.06.2025**
**VENUE : NET LAB**
**TIME : 2:30 PM**

**The Agenda for the meeting is as follows**

**ITEM NO: SBOS/02/25/01**

To ratify the change of CC - I, changed **Programming in C and Data Structures** to **Programming in C (25UAMICC1)** for B.Sc. Artificial Intelligence and Machine Learning programme, for 2025 -2026 batch onwards and recommend to the Academic Council, Cauvery College for Women (Autonomous), Trichy-18.

**ITEM NO: SBOS/02/25/02**

To approve the revision of the syllabus of CP - I **Programming in C (P) (25UAMICC1P)** by excluding exercises related to Data Structures for B.Sc. Artificial Intelligence and Machine Learning programme, for 2025 -2026 batch onwards and recommend to the Academic Council, Cauvery College for Women (Autonomous), Trichy-18.

# CAUVERY COLLEGE FOR WOMEN (AUTONOMOUS)

**Nationally Accredited (IV Cycle) with "A+" Grade by NAAC**

**Annamalai Nagar, Trichy-18**

**PG DEPARTMENT OF INFORMATION TECHNOLOGY**

## MINUTES OF THE MEETING OF THE SECOND SPECIAL BoS

## Board of Studies - PG Department of Information Technology

**DATE : 20.06.2025**
**VENUE : NET LAB**
**TIME : 2:30 PM**

**Members Present**

| | | |
|---|---|---|
| 1) | Dr. M. Parveen | Chairperson, Professor & HoD |
| 2) | Dr. J. Sangeetha | Member |
| 3) | Dr. A. Bhuvaneswari | Member |
| 4) | Dr.S. Suguna Devi | Member |
| 5) | Dr.P. Tamilselvi | Member |
| 6) | Ms.V.Infine Sinduja | Member |
| 7) | Dr.M. Ellakkiya | Member |
| 8) | Ms.V.Manimozhi | Member |

## MINUTES OF THE SECOND SPECIAL BOS MEETING HELD ON 20.06.2025

**RESOLUTION NO. SBOS/02/25/01**

Resolved to approve the change in the course of CC - I **Programming in C and Data Structures to Programming in C** for the B.Sc. Artificial Intelligence and Machine Learning programme, for 2025–2026 batch onwards and recommend to the Academic Council, Cauvery College for Women (Autonomous), Trichy-18.

- The updated syllabus will focus on fundamental programming concepts in C

**RESOLUTION NO. SBOS/02/25/02**

Resolved to revise the syllabus of CP – I Programming in C (P) *(*25UAM1CC1P*)* by removing exercises related to Data Structures.

**Signature of the Chairman** **Signature of the Dean**

**Dr. M. Parveen** **Dr.V. Sinthu Janita Prakash**

# Cauvery College for Women (Autonomous)

**B.Sc Artificial Intelligence and Machine Learning**

**LEARNING OUTCOME-BASED CURRICULUM FRAMEWORK (CBCS –LOCF)**

**(For the Candidates admitted from the Academic year 2025-2026 and onwards)**

| PSO NO | Programme Specific Outcomes<br>Students of B.Sc. Artificial Intelligence & Machine Learning will be able to | POs Addressed |
|---|---|---|
| PSO1 | Analyze problems, identify key requirements, and define clear specifications to develop effective solutions in par with the expected quality standards for Artificial Intelligence and Machine Learning professional. | PO1 |
| PSO2 | Utilize technical skills gained from lab exercises, projects, internships, and value-added programs to tackle complex and interdisciplinary challenges. | PO4 |
| PSO3 | Design, Analyze, Interpret and execute AI problems and draw actionable conclusions for strategic decision-making. | PO2 |
| PSO4 | Develop ground-breaking ideas in artificial intelligence and machine learning domain to implement real world applications | PO4 |
| PSO5 | Adapt to modern platforms to enhance employability, foster entrepreneurship, and pursue higher education opportunities effectively | PO3 |

| Semester | Part | Course | Course Title | Course Code | Inst. Hrs. / | Credits | Exam | | | Total |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | Hrs | Marks | | |
| | | | | | | | | Int. | Ext | |
| I | I | Language Course - I (LC) | பொதுத்தமிழ் - 1 | 23ULT1 | 6 | 3 | 3 | 25 | 75 | 100 |
| | | | Hindi Ka Samanya Gyan aur Nibandh | 23ULH1 | | | | | | |
| | | | Poetry, Grammar and History of Sanskrit Literature | 23ULS1 | | | | | | |
| | | | Foundation Course: Paper I- French – I | 23ULF1 | | | | | | |
| | II | English Language Course- I(ELC) | General English - I | 23UE1 | 6 | 3 | 3 | 25 | 75 | 100 |
| | III | Core Course – I (CC) | Programming in C | 25UAM1CC1 | 5 | 5 | 3 | 25 | 75 | 100 |
| | | Core Practical - I (CP) | Programming in C(P) | 25UAM1CC1P | 3 | 3 | 3 | 40 | 60 | 100 |
| | | First Allied Course-I (AC) | Linear Algebra and Calculus | 25UAM1AC1 | 4 | 3 | 3 | 25 | 75 | 100 |
| | | First Allied Course-II (AC) | Probability and Statistics | 25UAM1AC2 | 4 | 3 | 3 | 25 | 75 | 100 |
| | IV | Ability Enhancement Compulsory Course-I (AECC) | UGC Jeevan Kaushal- Universal Human Values | 23UGVE | 2 | 2 | | 100 | | 100 |
| | **Total** | | | | **30** | **22** | | | | **700** |

**Signature of the Chairman** **Signature of the Dean**

**Dr. M. Parveen** **Dr.V.Sinthu Janita Prakash**

| Semester I | Internal Mark: 25 | | External Mark: 75 | |
|---|---|---|---|---|
| COURSE CODE | COURSE TITLE | CATEGORY | Hrs/Week | CREDITS |
| 25UAM1CC1 | PROGRAMMING IN C | CORE COURSE – I (CC) | 5 | 5 |

**Course Objectives**

- To familiarize the students with the understanding of code organization
- To improve the programming skills
- Learning the basic programming constructs.

**Course Outcomes and Cognitive Level Mapping**

| CO Number | Course Outcome | Cognitive Level |
|---|---|---|
| CO1 | Outline the fundamental concepts of C programming languages, and its features | K1 |
| CO2 | Demonstrate the programming methodology. | K2 |
| CO3 | Identify suitable programming constructs for problem solving. | K3 |
| CO4 | Select the appropriate data representation, control structures, functions and concepts based on the problem requirement. | K4 |
| CO5 | Evaluate the program performance by fixing the errors. | K5 |

**Mapping of CO with PO and PSO**

| | PSO1 | PSO2 | PSO3 | PSO4 | PSO5 | PO1 | PO2 | PO3 | PO4 | PO5 |
|---|---|---|---|---|---|---|---|---|---|---|
| CO1 | 2 | 2 | 3 | 2 | 1 | 2 | 2 | 2 | 3 | 2 |
| CO2 | 3 | 2 | 3 | 2 | 2 | 3 | 3 | 2 | 3 | 2 |
| CO3 | 3 | 3 | 3 | 2 | 2 | 3 | 3 | 2 | 3 | 3 |
| CO4 | 3 | 2 | 3 | 2 | 3 | 2 | 2 | 2 | 3 | 3 |
| CO5 | 3 | 3 | 3 | 2 | 3 | 3 | 3 | 2 | 2 | 3 |

**"1" – Slight (Low) Correlation "2" – Moderate (Medium) Correlation**
**"3" – Substantial (High) Correlation "-" indicates there is no correlation.**

**Syllabus**

| UNIT | CONTENT | HOURS | COs | COGNITIVE LEVEL |
|---|---|---|---|---|
| I | Overview of C: History of C- Importance of C- Basic Structure of C Programs- Executing a C Program- Constants, Variables and Data types - Operators and Expressions - Managing Input and Output Operations | 15 | CO1, CO2, CO3, CO4, CO5 | K1, K2, K3, K4, K5 |
| II | **Decision Making and Branching:** Decision making with If, simple IF, IF ELSE, nested IF ELSE , ELSE IF ladder, switch, GOTO statement.**Decision Making and Looping**: While, Do-While, For, Jumps in loops.Arrays - Character Arrays and Strings. | 15 | CO1, CO2, CO3, CO4, CO5 | K1, K2, K3, K4, K5 |
| III | **User Defined Functions:** Elements of User Defined Functions- Definition of Functions- Return Values and their Types- Function Call- Function Declaration- Categories of Functions- Nesting of Functions-Recursion | 15 | CO1, CO2, CO3, CO4, CO5 | K1, K2, K3, K4, K5 |
| IV | **Structures and Unions:** Introduction- Defining a Structure- Declaring Structure Variables Accessing Structure Members- Structure Initialization- Arrays of Structures- Arrays within Structures- Unions- Size of Structures **Pointers:** Understanding Pointers- Accessing the Address of a Variable- Declaring Pointer Variables- Initializing of Pointer Variables- Accessing a Variable through its Pointer- Chain of Pointers- Pointer Expressions- Pointer and Scale Factor- Pointer and Arrays- Pointers and Character Strings- Array of Pointers- Pointer as Function Arguments- Pointers and Structures- | 15 | CO1, CO2, CO3, CO4, CO5 | K1, K2, K3, K4, K5 |
| V | File Management in C-**Dynamic Memory Allocation**-Allocating a Block of Memory- Allocating a Multiple Blocks of Memory-Releasing the used space-Altering the Block of Memory-The Preprocessor-Macro substitution-Bit Level Programming | 15 | CO1, CO2, CO3, CO4, CO5 | K1, K2, K3, K4, K5 |

| | | | | |
|---|---|---|---|---|
| VI | **Self Study for Enrichment**<br>(Not included for End Semester Examinations)<br>Algorithm- Flowchart- Develop algorithms for real time scenario- Simple expressions- Conversion programs- swapping numbers (with and without using temporary variable).<br>Programs for checking eligibility-Triangle formation-Sum of series-Array manipulations (Sorting, searching, insert, delete and merging)-String handling programs - Employee pay bill preparation, Student mark list using Files. | - | CO1,<br>CO2,<br>CO3,<br>CO4,<br>CO5 | K1,<br>K2,<br>K3,<br>K4,<br>K5 |

**Textbooks**

1. E. Balaguruswamy, (2010), —Programming in ANSI Cl, Fifth Edition, Tata McGraw Hill Publications.

**References**


1. Ashok N. Kamthane, Amit Ashok Kamthane (2015). Programming in C, 3rd Edition, Pearson India Education Services Pvt. Ltd.
2. Byron Gottfried, (2010), —Programming with Cl, Schaums Outline Series, Tata McGraw Hill Publications


**Web References**

1. https://www.learn-c.org/
2. https://www.cprogramming.com/
3. https://www.tutorialspoint.com/cprogramming/index.html
4. http://www.programiz.com/c-programming
5. http://www.programmingsimplified.com/c-program-examples

**Pedagogy**

Chalk and Talk, PPT, Discussion, Assignment, Demo, Quiz and Seminar.

**Course Designer**

1. Dr. S.Suguna Devi, Associate Professor, Department of Information Technology.

**Signature of the Chairman** **Signature of the Dean**

**Dr. M. Parveen** **Dr.V.Sinthu Janita Prakash**

| Semester I | Internal Mark: 40 | | External Mark: 60 | |
|---|---|---|---|---|
| **COURSE CODE** | **COURSE TITLE** | **CATEGORY** | **Hrs/Week** | **CREDITS** |
| **25UAM1CC1P** | **Programming in C (P)** | **CORE COURSE- I (CP)** | **3** | **3** |

***Course Objectives***

- The Course aims to provide exposure to problem-solving through C programming
- It aims to train the student to the basic concepts of the C -Programming language
- Apply different concepts of C language to solve the problem

***Course Outcomes and Cognitive Level Mapping***

| CO Number | CO Statement | Cognitive Level |
|---|---|---|
| **CO1** | Demonstrate the understanding of syntax and semantics of C programs. | K1 |
| **CO2** | Identify the problem and solve using C programming techniques. | K2 |
| **CO3** | Identify suitable programming constructs for problem solving. | K3 |
| **CO4** | Analyze various concepts of C language to solve the problem in an efficient way. | K4 |
| **CO5** | Develop a C program for a given problem and test for its correctness. | K5 |

**Mapping with Programme Outcomes**

| COs\ POs | PSO1 | PSO2 | PSO3 | PSO4 | PSO5 | PO1 | PO2 | PO3 | PO4 | PO5 |
|---|---|---|---|---|---|---|---|---|---|---|
| **CO1** | 3 | 3 | 3 | 2 | 2 | 2 | 3 | 1 | 2 | 3 |
| **CO2** | 3 | 2 | 3 | 2 | 3 | 3 | 2 | 2 | 2 | 3 |
| **CO3** | 3 | 2 | 2 | 2 | 2 | 3 | 3 | 2 | 3 | 2 |
| **CO4** | 3 | 3 | 2 | 3 | 2 | 3 | 3 | 2 | 3 | 3 |
| **CO5** | 3 | 3 | 3 | 2 | 3 | 3 | 3 | 3 | 2 | 3 |

**"1" – Slight (Low) Correlation**
**"2" – Moderate (Medium) Correlation**
**"3" – Substantial (High) Correlation**
**"-" indicates there is no correlation.**

***Syllabus***

1. Programs using Input/ Output functions
2. Programs on conditional structures
3. Programs using Looping structures
4. Programs using Arrays
5. String Manipulations
6. Programs using Functions
7. Recursive Functions
8. Implement Files by using Structures and Pointers
9. Implement a program using various Dynamic memory allocation constructs
10. Program to implement various Bitwise operators.

***Text Book***

1. E. Balagurusamy, Programming in ANSI C, Fifth Edition, Tata McGraw-Hill, 2010.

***Reference Books***

1. Byron Gottfried, Schaum's Outline Programming with C, Fourth Edition, Tata McGraw-Hill, 2018.
2. Kernighan and Ritchie, The C Programming Language, Second Edition, Prentice Hall, 1998.
3. Yashavant Kanetkar, Let Us C, Eighteenth Edition, BPB Publications, 2021

***Web References***

1. https://www.tutorialspoint.com/cprogramming
2. https://www.javatpoint.com/c-programming-language-tutorial
3. https://www.w3schools.in/category/c-tutorial

***Course Designer***

Dr. S.Suguna Devi, Associate Professor, Department of Information Technology

**Signature of the Chairman** **Signature of the Dean**

**Dr. M. Parveen** **Dr.V.Sinthu Janita Prakash**

# ANNEXURE M

**CAUVERY COLLEGE FOR WOMEN (AUTONOMOUS)**
**Nationally Accredited (IV Cycle) with A+ Grade by NAAC**
**Annamalai Nagar, Tiruchirappalli**
**PG & RESEARCH DEPARTMENT OF MICROBIOLOGY**
**MINUTES OF THE TWELFTH MEETING OF THE BOS**

**DATE : 02.04.2025**
**VENUE : PG Microbiology Lab**
**TIME : 10.30 a.m.**

**Members Present**

| | |
|---|---|
| 1. Dr. B. Thamilmaraiselvi | Chairperson, Professor & HOD |
| 2. Dr. N. Pushpa | Member, Associate Professor |
| 3. Dr. S. Jeyabharathi | Member, Associate Professor |
| 4. Dr. N. Jeenathunisa | Member, Associate Professor |
| 5. Ms. S. Sathya | Member, Assistant Professor |
| 6. Dr. N. Sathammai Priva | Member, Assistant Professor |
| 7. Dr. P.F. Steffi | Member, Assistant Professor |
| 8. Dr. S. Jenny | Member, Assistant Professor |
| 9. Dr. E. Priya | Member, Assistant Professor |
| 10. Dr. V. Aruna | Member, Assistant Professor |
| 11. Dr. P. Bhuvaneswari | Member, Assistant Professor |

## ACTION TAKEN REPORT OF THE BOS HELD ON 17.10.2024

The BoS Meeting was held on 17.10.2024 at 10.30 a.m. The Chairman of the BoS read the minutes of the previous meeting and the following Resolutions were confirmed

- Confirmation of V & VI Semester syllabus of B.Sc. Microbiology for 2023-2024 batch and onwards
- Conformation of the syllabus of CC – VI, CC- VII, CC- VIII , CP – V and DSE – I the ratification of the Credits and Course Code of CC – VI, CC- VII, CC- VIII, CP - V and DSE - I of Semester V and CC – IX, CC- X and DSE - II of Semester VI for B.Sc. Microbiology for 2023 - 2024 batch and onwards

**The Agenda for the meeting is as follows:**

**ITEM NO: BOS/12/25/01**
To consider and to approve the III, IV, V & VI Semester syllabus of B.Sc. Microbiology for 2024-2025 batch and onwards and recommend to the Academic Council, Cauvery College for Women (Autonomous), Trichy.

**ITEM NO: BOS/12/25/02**
Any other matter with the permission of the chair

## MINUTES OF THE TWELFTH MEETING OF THE BOS HELD ON 02.04.2025

**RESOLUTION NO.BOS/12/25/01**

Resolved to approve the syllabus of AECC-IV, GEC-I of Semester III and GEC-II of Semester IV, the ratification of the Credits and Course Code of CP-IV of Semester IV, Internship of Semester V, CC-X and Project work of Semester VI for B.Sc., Microbiology for 2024-2025 batch and onwards and recommended to the Academic Council, Cauvery College for Women (Autonomous), Trichy - 18 with the following changes for

1. New course introduced with AECC – IV – Health and Wellness approved with 1 Credit and Course Code 24UGHW.
2. New course introduced with GEC- I- Introduction to NCC with 2 Credits and Course Code 24UNC3GEC1.
3. Credits of CP- IV- Immunology (P) is changed as 3 Credits with Course Code 24UMB4CC4P
4. New course introduced with GEC -II- Specialization in Army with 2 Credits and Course Code 24UNC4GEC2
5. Internship Evaluation of Semester IV is planned to conduct on Semester V with Course Code 24UMB5INT
6. Credits of CC-X – Food and Dairy Microbiology is changed as 5 Credits and Course Code 24UMB6CC10
7. Credits of Project Work is changed as 3 with Course Code 24UMB6PW

**Chairman of the Board** **Dean of Science**

# Cauvery College for Women (Autonomous), Tiruchirappalli -620 018

## PG & Research Department of Microbiology

## 12th Board of Studies Meeting Held on 02/04/2025

**1.Introduction of new courses from the academic year 2024-2025 based on the Feedback collected from various Stakeholders**

The Chairman of the Board Dr. B. Thamilmaraiselvi, proposed the introduction of the following New course(s) in the curriculum of the B.Sc., Microbiology from the academic Year 2024 -2025

| Name of the Programme | Name of the Course | Course Code | Year of Introduction |
|---|---|---|---|
| B.Sc., Microbiology | AECC – IV – Health and Wellness | 24UGHW | 2025 |
| | GEC- I- Introduction to NCC | 24UNC3GEC1 | 2025 |
| | GEC- II- Specialization in Army | 24UNC4GEC2 | 2025 |

**2.Revision of syllabus of the existing courses from the academic year 2024 -2025**

The Chairman of the Board, Dr. B. Thamilmaraiselvi, proposed the revision of syllabus in the curriculum of the B.Sc., Microbiology, and M.Sc., Microbiology from the academic Year 2024-2025.

| Name of the Programme | Name of the Course | Course Code | Core/Elective | % of Content added or replaced |
|---|---|---|---|---|
| B.Sc., Microbiology | Immunology (P) | 24UMB4CC4P | Core Practical | - |
| | Internship | 24UMB5INT | - | - |
| | Food and Dairy Microbiology | 24UMB6CC10 | Core | 20% |
| | Project Work | 24UMB6PW | - | - |
| M.Sc., Microbiology | - | - | - | - |

**Chairman of the Board** **Dean of Science**

# CAUVERYCOLLEGE FOR WOMEN(AUTONOMOUS)

Nationally Accredited with 'A$^{+}$' Grade by NAAC

**TIRUCHIRAPPALLI**

## PG AND RESEARCH DEPARTMENT OF MICROBIOLOGY

# B.Sc., MICROBIOLOGY

# SYLLABUS

**2024 -2025 and Onwards**

**CAUVERY COLLEGE FOR WOMEN (AUTONOMOUS)**
**PG AND RESEARCH DEPARTMENT OF MICROBIOLOGY**

## VISION

Our vision is to encourage eminent research work through the conception of an attractive and vibrant environment to achieve goals of our department.

## MISSION

- To impart relevant, ultimate, principle-oriented education and practical expertise in the field of Microbiology.
- To strive to provide quality education conjugated with innovative technology so as to be able to gain technical and educational expertise locally, nationally, internationally.
- Our prime focus is to enrich the ambitions of our students, staff and steer with constructive collaboration towards excellence.

## PROGRAMME EDUCATIONAL OBJECTIVES (PEOs)

| PEOs | Statements |
|---|---|
| PEO1 | **LEARNING ENVIRONMENT**<br>To facilitate value-based holistic and comprehensive learning by integrating innovative learning practices to match the highest quality standards and train the students to be effective leaders in their chosen fields. |
| PEO2 | **ACADEMIC EXCELLENCE**<br>To provide a conducive environment to unleash their hidden talents and to nurture the spirit of critical thinking and encourage them to achieve their goal. |
| PEO3 | **EMPLOYABILITY**<br>To equip students with the required skills in order to adapt to the changing global scenario and gain access to versatile career opportunities in multidisciplinary domains. |
| PEO4 | **PROFESSIONAL ETHICS AND SOCIAL RESPONSIBILITY**<br>To develop a sense of social responsibility by formulating ethics and equity to transform students into committed professionals with a strong attitude towards the development of the nation. |
| PEO5 | **GREEN SUSTAINABILITY**<br>To understand the impact of professional solutions in societal and environmental contexts and demonstrate the knowledge for an overall sustainable development. |

## PROGRAMME OUTCOMES FOR B.Sc., MICROBIOLOGY PROGRAMME

| PONO. | On completion of B.Sc., Microbiology, the students will be able to |
|---|---|
| PO1 | **Academic Excellence and Competence:** Elicit firm fundamental knowledge in theory as well as practical for coherent understanding of academic field to pursue multi and inter disciplinary science careers in future. |
| PO2 | **Holistic and Social approach:** Create novel ideas related to the scientific research concepts through advanced technology and sensitivity towards sustainable Environmental practices as well as social issues. |
| PO3 | **Professional ethics and Team Work:** Explore professional responsibility through projects, internships, field trip/industrial visit and mentorship Programmes to transmit communication skills. |
| PO4 | **Critical and Scientific thinking:** Equip training skills in Internships, Research Projects to do higher studies in multidisciplinary path with higher level of specialization to become professionals of high-quality standards. |
| PO5 | **Social Responsibility with ethical values:** Ensure ethical, social and holistic values in the minds of learners and attain ender parity for building a healthy nation. |

## PROGRAMME SPECIFIC OUTCOMES FOR B.Sc., MICROBIOLOGY

| PSO NO. | Students of B.Sc., Microbiology will be able to | Pos Addressed |
|---|---|---|
| PSO1 | Improve their knowledge on the basic concepts for retaining competence and confidence which enables them to develop interest in the new arena of Microbiology | PO1, PO5 |
| PSO2 | Acquire expertise in practical work within dependent equipment Handling skill along with collection and interpretation of scientific data | PO2, PO3 |
| PSO3 | Legitimize knowledge by emerging multiple aspects of current research. | PO3, PO5 |
| PSO4 | Pursue the importance of substantial original Research to meet the current and future expectation. | PO4, PO1 |
| PSO5 | Beware of the ethical issues for the benefit of the society by adding skilled scientific work for across the country. | PO5, PO2 |

# Cauvery College for Women (Autonomous)

PG & Research Department of Microbiology

B.Sc., Microbiology

Learning Outcome Based Curriculum Framework (CBCS-LOCF)

**(For the Candidates admitted from the Academic year 2024-2025 and onwards)**

| Semester | Part | Course | Title | Course Code | Inst. Hrs. | Credits | Exam | | | Total |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | Hrs. | Marks Int | Marks Ext | |
| I | I | Language Course-I (LC) Tamil / other languages | பொதுத்தமிழ் – I | 23ULT1 | 6 | 3 | 3 | 25 | 75 | 100 |
| | | | Poetry, Grammar and History of Sanskrit Literature | 23ULS1 | | | | | | |
| | | | Hindi Ka Samanya Gyan aur Nibandh | 23ULH1 | | | | | | |
| | | | Foundation Course: PaperI- French-I | 23ULF1 | | | | | | |
| | II | English Language Course- I(ELC) | General English -I | 23UE1 | 6 | 3 | 3 | 25 | 75 | 100 |
| | III | Core Course – I(CC) | Fundamentals of Microbiology and Microbial Diversity | 23UMB1CC1 | 5 | 5 | 3 | 25 | 75 | 100 |
| | | Core Practical - I (CP) | Fundamentals of Microbiology and Microbial Diversity (P) | 23UMB1CC1P | 3 | 3 | 3 | 25 | 75 | 100 |
| | | First Allied Course- I (AC) | Biochemistry I | 23UMB1AC1 | 4 | 3 | 3 | 25 | 75 | 100 |
| | | First Allied Course- II (AC) | Biochemistry I (P) | 23UMB1AC1P | 4 | 3 | 3 | 25 | 75 | 100 |
| | IV | Ability Enhancement Compulsory Course-I (AECC) | Value Education | 23UGVE | 2 | 2 | 3 | 25 | 75 | 100 |
| | | | **TOTAL** | | **30** | **22** | | | | **700** |
| II | I | Language Course-II(LC)Tamil / Other languages | பொதுத்தமிழ்- II | 23ULT2 | 6 | 3 | 3 | 25 | 75 | 100 |
| | | | Prose, Grammar and History of Sanskrit literature | 23ULS2 | | | | | | |
| | | | Hindi Literature & Grammar -II | 22ULH2 | | | | | | |
| | | | Basic French-II | 22ULF2 | | | | | | |
| | II | English Language Course- II(ELC) | General English – II | 23UE2 | 6 | 3 | 3 | 25 | 75 | 100 |
| | | Core Course – II (CC) | Microbial Physiology | 23UMB2CC2 | 4 | 4 | 3 | 25 | 75 | 100 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | III | Core Practical - II (CP) | Microbial Physiology and Molecular Biology (P) | 23UMB2CC2P | 3 | 3 | 3 | 25 | 75 | 100 |
| | | Core Course -III (CC) | Molecular Biology | 23UMB2CC3 | 3 | 3 | 3 | 25 | 75 | 100 |
| | | First Allied Course – III (AC) | Biochemistry II | 23UMB2AC2 | 4 | 3 | 3 | 25 | 75 | 100 |
| | | Ability Enhancement Compulsory Course-II (AECC) | Environmental Studies | 22UGEVS | 2 | 2 | 3 | 100 | - | 100 |
| | IV | Ability Enhancement Compulsory Course-III (AECC) | Innovation and Entrepreneurship | 22UGIE | 2 | 1 | - | 100 | - | 100 |
| | Extra Credit Course | | SWAYAM | As Per UGC Recommendation | | | | | | |
| | | | **TOTAL** | | **30** | **22** | | | | **800** |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| III | I | Language Course-III(LC) Tamil*/Other Languages* | பொதுத்தமிழ்- III | 23ULT3 | 6 | 3 | 3 | 25 | 75 | 100 |
| | | | Hindi Literature & Grammar-III | 22ULH3 | | | | | | |
| | | | Intermediate French-I | 22ULF3 | | | | | | |
| | | | Drama, Grammer and History of Sanskrit Literature | 23ULS3 | | | | | | |
| | II | English Language Course-II(ELC) | Learning Grammar Through Literature-I | 23UE3 | 6 | 3 | 3 | 25 | 75 | 100 |
| | III | Core Course–IV(CC) | Virology | 23UMB3CC4 | 5 | 5 | 3 | 25 | 75 | 100 |
| | | Core Practical –III (CP) | Virology (P) | 22UMB3CC3P | 3 | 3 | 3 | 40 | 60 | 100 |
| | | Second Allied Course-I (AC) | Biostatistics | 23UMB3AC3 | 4 | 3 | 3 | 25 | 75 | 100 |
| | | Second Allied Course-II (AP) | Biostatistics (P) | 23UMB3AC2P | 4 | 3 | 3 | 40 | 60 | 100 |
| | IV | Ability Enhancement Compulsory Course-IV (AECC) | Health and Wellness | 24UGHW | 2* | 1 | - | 100 | - | 100 |
| | | Generic Elective Course- I (GEC) (Offer to Other Department) | Mushroom Technology | 22UMB3GEC1 | 2 | 2 | 3 | 25 | 75 | 100 |
| | | | Introduction to NCC@ | 24UNC3GEC1 | | | | | | |
| | | | Basic Tamil-I | 22ULC3BT1 | | | | | | |
| | | | Special Tamil-I | 22ULC3ST1 | | | | | | |
| | Extra Credit Course | | SWAYAM | As Per UGC Recommendation | | | | | | |
| | | | | **TOTAL** | **30** | **23** | | | | **800** |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | I | Language Course-IV (LC) Tamil*/Other Languages* | பொதுத்தமிழ்- IV | 23ULT4 | 6 | 3 | 3 | 25 | 75 | 100 |
| | | | Hindi Literature & Functional Hindi | 22ULH4 | | | | | | |
| | | | Intermediate French-II | 22ULF4 | | | | | | |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| IV | | | Alankara, Didactic and Modern Literature and Translation | 23ULS4 | | | | | | |
| | II | English Language Course -IV(ELC) | Learning Grammar Through Literature-II | 23UE4 | 6 | 3 | 3 | 25 | 75 | 100 |
| | III | Core Course – V(CC) | Immunology | 23UMB4CC5 | 6 | 5 | 3 | 25 | 75 | 100 |
| | | Core Practical -IV(CP) | Immunology (P) | 24UMB4CC4P | 4 | 3 | 3 | 40 | 60 | 100 |
| | | Second Allied Course-III (AC) | Bioinformatics | 22UMB4AC4 | 4 | 3 | 3 | 25 | 75 | 100 |
| | IV | Generic Elective – Course- II (GEC)@ | Biofertilizer Technology | 22UMB4GEC2 | 2 | 2 | 3 | 25 | 75 | 100 |
| | | | Specialization in Army@ | 24UNC4GEC2 | | | | | | |
| | | | Basic Tamil-II | 22ULC4BT2 | | | | | | |
| | | | Special Tamil-II | 22ULC4ST2 | | | | | | |
| | | Skill Enhancement Course–I(SEC) | Herbal Medicine (P) | 22UMB4SEC1P | 2 | 2 | 3 | 40 | 60 | 100 |
| | Extra Credit Course | | SWAYAM | As Per UGC Recommendation | | | | | | |
| | | | | **TOTAL** | **30** | **21** | | | | **700** |

**30 Days INTERNSHIP during Semester Holidays**

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| V | III | Core Course –VI(CC) | Medical Microbiology | 23UMB5CC6 | 6 | 5 | 3 | 25 | 75 | 100 |
| | | Core Course -VII(CC) | Agricultural and Environmental Microbiology | 23UMB5CC7 | 6 | 5 | 3 | 25 | 75 | 100 |
| | | Core Course –VIII (CC) | Microbial Biotechnology | 23UMB5CC8 | 6 | 5 | 3 | 25 | 75 | 100 |
| | | Core Practical – V(CP) | Medical Microbiology, Environmental and Agricultural Microbiology and Microbial Biotechnology (P) | 23UMB5CC5P | 3 | 3 | 3 | 40 | 60 | 100 |
| | | Internship | Internship | 24UMB5INT | - | 2 | - | - | - | 100 |
| | | Discipline SpecificElective – I (DSE) | A. Organic Farming | 23UMB5DSE1A | 5 | 3 | 3 | 25 | 75 | 100 |
| | | | B. Medical Parasitology | 23UMB5DSE1B | | | | | | |
| | | | C. Fundamentals of Botany and Zoology | 23UMB5DSE1C | | | | | | |
| | IV | Ability Enhancement Compulsory Course-V(AECC) | UGC Jeevan Kaushal -Professional Skills | 22UGPS | 2 | 2 | - | 100 | - | 100 |
| | | Skill Enhancement Course –II(SEC) | Biofertilizer Technology (P) | 22UMB5SEC2P | 2 | 2 | 3 | 40 | 60 | 100 |
| | | | | **TOTAL** | **30** | **27** | | | | **800** |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| VI | III | Core Course –IX(CC) | Fermentation Technology | 23UMB6CC9 | 6 | 5 | 3 | 25 | 75 | 100 |
| | | Core Course –X(CC) | Food and Dairy Microbiology | 24UMB6CC10 | 6 | 5 | 3 | 25 | 75 | 100 |
| | | Core Course –XI (CC) | Cyber security | 22UGCS | 5 | 4 | 3 | 25 | 75 | 100 |
| | | Core Practical –VI(CP) | Fermentation Technology and Food and Dairy Microbiology (P) | 22UMB6CC6P | 3 | 3 | 3 | 40 | 60 | 100 |
| | | Discipline SpecificElective – II (DSE) | A. Microbial Genetics and Recombinant DNA Technology | 23UMB6DSE2A | 5 | 3 | 3 | 25 | 75 | 100 |
| | | | B. Microbial Ecology | 23UMB6DSE2B | | | | | | |
| | | | C. Biological Techniques | 23UMB6DSE2C | | | | | | |
| | | Project | Project Work | 24UMB6PW | 4 | 3 | - | - | 100 | 100 |
| | V | Gender Studies | Gender Studies | 22UGGS | 1 | 1 | - | - | - | 100 |
| | | Extension activity | | 22UGEA | 0 | 1 | - | - | - | - |
| | | | | **TOTAL** | **30** | **25** | | | | **700** |
| | | | | **GRANDTOTAL** | **180** | **140** | | | | **4500** |

- **@ NCC is one of the choices in GEC. Only the NCC cadets are eligible to chooses this course. However, NCC Course is not a Compulsory Course for the NCC Cadets. If the Cadet has not studied Tamil in the school level, she has to take Basic Tamil Course.**
- *** Health and Wellness shall be outside instruction hours**

## Courses & Credits for UG Science Programmes

LEARNING OUTCOME BASED CURRICULUM FRAMEWORK (CBCS - LOCF)

(For the Candidates admitted from the Academic year 2024-2025 and onwards)

| Part | Course | No. of Courses | Hours/ Course | Credits | Total Credits |
|---|---|---|---|---|---|
| I | Tamil/ Other Language | 4 | 6 | 12 | 12 |
| II | English | 4 | 6 | 12 | 12 |
| III | Core (Theory) | 9 | 5/6 | 9*5=45 | **98** |
| | Core (Practical) | 6 | 3/4 | 6*3=18 | |
| | CC/CP-III | 1 | 2 | 1*2=2 | |
| | Cyber Security | 1 | 5 | 1*4=4 | |
| | Project Work | 1 | 4 | 3 | |
| | Internship | 1 | - | 2 | |
| | First Allied | 3 | 3/4 | 3*3=9 | |
| | Second Allied | 3 | 3/4 | 3*3=9 | |
| | DSE | 2 | 5 | 2*3=6 | |
| IV | GEC | 2 | 2 | 2*2=4 | 17 |
| | SEC | 2 | 2 | 2*2=4 | |
| | AECC-I -Universal Human Values | 1 | 2 | 2 | |
| | AECC-II-Environmental Studies | 1 | 2 | 2 | |
| | AECC-III-Innovation and Entrepreneurship | 1 | 2 | 1 | |
| | AECC-IV- Health and Wellness | 1 | - | 1 | |
| | AECC-V Professional Skills | 1 | 2 | 2 | |
| | AECC-VI Gender Studies | 1 | 1 | 1 | |
| V | Extension Activities | 0 | - | 1 | 01 |
| | | **45** | | 140 | **140** |

Internal and external marks for theory and practical papers are as follows:

| Subject | Internal Marks | External Marks |
|---|---|---|
| Theory | 25 | 75 |
| Practical | 40 | 60 |

**For Theory:**

a) The passing minimum for CIA shall be 40% out of 25marks (i.e. 10marks)

b) The passing minimum for End Semester Examinations shall be 40% out of 75 marks (i.e.30marks)

**For Practical:**

a) The passing minimum for CIA shall be 40% out of 40 marks (i.e. 16marks)

b) The passing minimum for End Semester Examinations shall be 40% out of 60marks (i.e.,24 marks)

**Internal Component (Theory)**

| Component | Marks |
|---|---|
| Quiz | 10 |
| Assignment &Seminar | 10 |
| CIA -I | 05 |
| Total | 25 |

**Internal Component (Practical)**

| Component | Marks |
|---|---|
| Record Note | 10 |
| Continuous Performancein Practical(Attendance and Observation) | 15 |
| CIA | 15 |
| | 40 |

**Question Paper Pattern for different courses+**

# CAUVERYCOLLEGE FOR WOMEN(AUTONOMOUS)

Nationally Accredited with 'A+' Grade by NAAC

**TIRUCHIRAPPALLI**

## PG AND RESEARCH DEPARTMENT OF MICROBIOLOGY

# B.Sc., MICROBIOLOGY

# SYLLABUS

# 2024 -2025 and Onwards

**CAUVERY COLLEGE FOR WOMEN (AUTONOMOUS)**
**PG AND RESEARCH DEPARTMENT OF MICROBIOLOGY**

## VISION

Our vision is to encourage eminent research work through the conception of an attractive and vibrant environment to achieve goals of our department.

## MISSION

- To impart relevant, ultimate, principle-oriented education and practical expertise in the field of Microbiology.
- To strive to provide quality education conjugated with innovative technology so as to be able to gain technical and educational expertise locally, nationally, internationally.
- Our prime focus is to enrich the ambitions of our students, staff and steer with constructive collaboration towards excellence.

## PROGRAMME EDUCATIONAL OBJECTIVES (PEOs)

| PEOs | Statements |
|---|---|
| PEO1 | **LEARNING ENVIRONMENT**<br>To facilitate value-based holistic and comprehensive learning by integrating innovative learning practices to match the highest quality standards and train the students to be effective leaders in their chosen fields. |
| PEO2 | **ACADEMIC EXCELLENCE**<br>To provide a conducive environment to unleash their hidden talents and to nurture the spirit of critical thinking and encourage them to achieve their goal. |
| PEO3 | **EMPLOYABILITY**<br>To equip students with the required skills in order to adapt to the changing global scenario and gain access to versatile career opportunities in multidisciplinary domains. |
| PEO4 | **PROFESSIONAL ETHICS AND SOCIAL RESPONSIBILITY**<br>To develop a sense of social responsibility by formulating ethics and equity to transform students into committed professionals with a strong attitude towards the development of the nation. |
| PEO5 | **GREEN SUSTAINABILITY**<br>To understand the impact of professional solutions in societal and environmental contexts and demonstrate the knowledge for an overall sustainable development. |

## PROGRAMME OUTCOMES FOR B.Sc., MICROBIOLOGY PROGRAMME

| PONO. | On completion of B.Sc., Microbiology, the students will be able to |
|---|---|
| PO1 | **Academic Excellence and Competence:** Elicit firm fundamental knowledge in theory as well as practical for coherent understanding of academic field to pursue multi and inter disciplinary science careers in future. |
| PO2 | **Holistic and Social approach:** Create novel ideas related to the scientific research concepts through advanced technology and sensitivity towards sustainable Environmental practices as well as social issues. |
| PO3 | **Professional ethics and Team Work:** Explore professional responsibility through projects, internships, field trip/industrial visit and mentorship Programmes to transmit communication skills. |
| PO4 | **Critical and Scientific thinking:** Equip training skills in Internships, Research Projects to do higher studies in multidisciplinary path with higher level of specialization to become professionals of high-quality standards. |
| PO5 | **Social Responsibility with ethical values:** Ensure ethical, social and holistic values in the minds of learners and attain ender parity for building a healthy nation. |

## PROGRAMME SPECIFIC OUTCOMES FOR B.Sc., MICROBIOLOGY

| PSO NO. | Students of B.Sc., Microbiology will be able to | Pos Addressed |
|---|---|---|
| PSO1 | Improve their knowledge on the basic concepts for retaining competence and confidence which enables them to develop interest in the new arena of Microbiology | PO1, PO5 |
| PSO2 | Acquire expertise in practical work within dependent equipment Handling skill along with collection and interpretation of scientific data | PO2, PO3 |
| PSO3 | Legitimize knowledge by emerging multiple aspects of current research. | PO3, PO5 |
| PSO4 | Pursue the importance of substantial original Research to meet the current and future expectation. | PO4, PO1 |
| PSO5 | Beware of the ethical issues for the benefit of the society by adding skilled scientific work for across the country. | PO5, PO2 |

Cauvery College for Women (Autonomous)

PG & Research Department of Microbiology

B.Sc., Microbiology

Learning Outcome Based Curriculum Framework (CBCS-LOCF)

**(For the Candidates admitted from the Academic year 2024-2025 and onwards)**

| Semester | Part | Course | Title | Course Code | Inst. Hrs. | Credits | Exam | | | Total |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | Hrs. | Marks | | |
| | | | | | | | | Int | Ext | |
| I | I | Language Course-I (LC) Tamil / other languages | பொதுத்தமிழ் – I | 23ULT1 | 6 | 3 | 3 | 25 | 75 | 100 |
| | | | Poetry, Grammar and History of Sanskrit Literature | 23ULS1 | | | | | | |
| | | | Hindi Ka Samanya Gyan aur Nibandh | 23ULH1 | | | | | | |
| | | | Foundation Course: PaperI- French-I | 23ULF1 | | | | | | |
| | II | English Language Course- I(ELC) | General English -I | 23UE1 | 6 | 3 | 3 | 25 | 75 | 100 |
| | III | Core Course – I(CC) | Fundamentals of Microbiology and Microbial Diversity | 23UMB1CC1 | 5 | 5 | 3 | 25 | 75 | 100 |
| | | Core Practical - I (CP) | Fundamentals of Microbiology and Microbial Diversity (P) | 23UMB1CC1P | 3 | 3 | 3 | 25 | 75 | 100 |
| | | First Allied Course- I (AC) | Biochemistry I | 23UMB1AC1 | 4 | 3 | 3 | 25 | 75 | 100 |
| | | First Allied Course- II (AC) | Biochemistry I (P) | 23UMB1AC1P | 4 | 3 | 3 | 25 | 75 | 100 |
| | IV | Ability Enhancement Compulsory Course-I (AECC) | Value Education | 23UGVE | 2 | 2 | 3 | 25 | 75 | 100 |
| | | | **TOTAL** | | **30** | **22** | | | | **700** |
| II | I | Language Course-II(LC)Tamil / Other languages | பொதுத்தமிழ்- II | 23ULT2 | 6 | 3 | 3 | 25 | 75 | 100 |
| | | | Prose, Grammar and History of Sanskrit literature | 23ULS2 | | | | | | |
| | | | Hindi Literature & Grammar -II | 22ULH2 | | | | | | |
| | | | Basic French-II | 22ULF2 | | | | | | |
| | II | English Language Course- II(ELC) | General English – II | 23UE2 | 6 | 3 | 3 | 25 | 75 | 100 |
| | III | Core Course – II (CC) | Microbial Physiology | 23UMB2CC2 | 4 | 4 | 3 | 25 | 75 | 100 |
| | | Core Practical - II (CP) | Microbial Physiology and Molecular Biology (P) | 23UMB2CC2P | 3 | 3 | 3 | 25 | 75 | 100 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | Core Course -III (CC) | Molecular Biology | 23UMB2CC3 | 3 | 3 | 3 | 25 | 75 | 100 |
| | | First Allied Course – III (AC) | Biochemistry II | 23UMB2AC2 | 4 | 3 | 3 | 25 | 75 | 100 |
| | | Ability Enhancement Compulsory Course-II (AECC) | Environmental Studies | 22UGEVS | 2 | 2 | 3 | 100 | - | 100 |
| | IV | Ability Enhancement Compulsory Course-III (AECC) | Innovation and Entrepreneurship | 22UGIE | 2 | 1 | - | 100 | - | 100 |
| | | Extra Credit Course | SWAYAM | As Per UGC Recommendation | | | | | | |
| | | **TOTAL** | | | **30** | **22** | | | | **800** |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| III | I | Language Course-III(LC) Tamil*/Other Languages* | பொதுத்தமிழ்- III | 23ULT3 | 6 | 3 | 3 | 25 | 75 | 100 |
| | | | Hindi Literature & Grammar-III | 22ULH3 | | | | | | |
| | | | Intermediate French-I | 22ULF3 | | | | | | |
| | | | Drama, Grammer and History of Sanskrit Literature | 23ULS3 | | | | | | |
| | II | English Language Course-II(ELC) | Learning Grammar Through Literature-I | 23UE3 | 6 | 3 | 3 | 25 | 75 | 100 |
| | III | Core Course–IV(CC) | Virology | 23UMB3CC4 | 5 | 5 | 3 | 25 | 75 | 100 |
| | | Core Practical –III (CP) | Virology (P) | 22UMB3CC3P | 3 | 3 | 3 | 40 | 60 | 100 |
| | | Second Allied Course-I (AC) | Biostatistics | 23UMB3AC3 | 4 | 3 | 3 | 25 | 75 | 100 |
| | | Second Allied Course-II (AP) | Biostatistics (P) | 23UMB3AC2P | 4 | 3 | 3 | 40 | 60 | 100 |
| | IV | Ability Enhancement Compulsory Course-IV (AECC) | Health and Wellness | 24UGHW | 2* | 1 | - | 100 | - | 100 |
| | | Generic Elective Course- I (GEC) (Offer to Other Department) | Mushroom Technology | 22UMB3GEC1 | 2 | 2 | 3 | 25 | 75 | 100 |
| | | | Introduction to NCC@ | 24UNC3GEC1 | | | | | | |
| | | | Basic Tamil-I | 22ULC3BT1 | | | | | | |
| | | | Special Tamil-I | 22ULC3ST1 | | | | | | |
| | Extra Credit Course | | SWAYAM | As Per UGC Recommendation | | | | | | |
| | **TOTAL** | | | | **30** | **23** | | | | **800** |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | I | Language Course-IV (LC) Tamil*/Other Languages* | பொதுத்தமிழ்- IV | 23ULT4 | 6 | 3 | 3 | 25 | 75 | 100 |
| | | | Hindi Literature & Functional Hindi | 22ULH4 | | | | | | |
| | | | Intermediate French-II | 22ULF4 | | | | | | |
| | | | Alankara, Didactic and Modern Literature and Translation | 23ULS4 | | | | | | |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| IV | II | English Language Course -IV(ELC) | Learning Grammar Through Literature-II | 23UE4 | 6 | 3 | 3 | 25 | 75 | 100 |
| | III | Core Course – V(CC) | Immunology | 23UMB4CC5 | 6 | 5 | 3 | 25 | 75 | 100 |
| | | Core Practical -IV(CP) | Immunology (P) | 24UMB4CC4P | 4 | 3 | 3 | 40 | 60 | 100 |
| | | Second Allied Course-III (AC) | Bioinformatics | 22UMB4AC4 | 4 | 3 | 3 | 25 | 75 | 100 |
| | IV | Generic Elective – Course- II (GEC)@ | Biofertilizer Technology | 22UMB4GEC2 | 2 | 2 | 3 | 25 | 75 | 100 |
| | | | Specialization in Army@ | 24UNC4GEC2 | | | | | | |
| | | | Basic Tamil-II | 22ULC4BT2 | | | | | | |
| | | | Special Tamil-II | 22ULC4ST2 | | | | | | |
| | | Skill Enhancement Course–I(SEC) | Herbal Medicine (P) | 22UMB4SEC1P | 2 | 2 | 3 | 40 | 60 | 100 |
| | Extra Credit Course | | SWAYAM | As Per UGC Recommendation | | | | | | |
| | | | | **TOTAL** | **30** | **21** | | | | **700** |

**30 Days INTERNSHIP during Semester Holidays**

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| V | III | Core Course –VI(CC) | Medical Microbiology | 23UMB5CC6 | 6 | 5 | 3 | 25 | 75 | 100 |
| | | Core Course -VII(CC) | Agricultural and Environmental Microbiology | 23UMB5CC7 | 6 | 5 | 3 | 25 | 75 | 100 |
| | | Core Course –VIII (CC) | Microbial Biotechnology | 23UMB5CC8 | 6 | 5 | 3 | 25 | 75 | 100 |
| | | Core Practical – V(CP) | Medical Microbiology, Environmental and Agricultural Microbiology and Microbial Biotechnology (P) | 23UMB5CC5P | 3 | 3 | 3 | 40 | 60 | 100 |
| | | Internship | Internship | 24UMB5INT | - | 2 | - | - | - | 100 |
| | | Discipline SpecificElective – I (DSE) | A. Organic Farming | 23UMB5DSE1A | 5 | 3 | 3 | 25 | 75 | 100 |
| | | | B. Medical Parasitology | 23UMB5DSE1B | | | | | | |
| | | | C. Fundamentals of Botany and Zoology | 23UMB5DSE1C | | | | | | |
| | IV | Ability Enhancement Compulsory Course-V(AECC) | UGC Jeevan Kaushal -Professional Skills | 22UGPS | 2 | 2 | - | 100 | - | 100 |
| | | Skill Enhancement Course –II(SEC) | Biofertilizer Technology (P) | 22UMB5SEC2P | 2 | 2 | 3 | 40 | 60 | 100 |
| | | | | **TOTAL** | **30** | **27** | | | | **800** |
| | | Core Course –IX(CC) | Fermentation Technology | 23UMB6CC9 | 6 | 5 | 3 | 25 | 75 | 100 |
| | | Core Course –X(CC) | Food and Dairy Microbiology | 24UMB6CC10 | 6 | 5 | 3 | 25 | 75 | 100 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| VI | III | Core Course –XI (CC) | Cyber security | 22UGCS | 5 | 4 | 3 | 25 | 75 | 100 |
| | | Core Practical –VI(CP) | Fermentation Technology and Food and Dairy Microbiology (P) | 22UMB6CC6P | 3 | 3 | 3 | 40 | 60 | 100 |
| | | Discipline SpecificElective – II (DSE) | A. Microbial Genetics and Recombinant DNA Technology | 23UMB6DSE2A | 5 | 3 | 3 | 25 | 75 | 100 |
| | | | B. Microbial Ecology | 23UMB6DSE2B | | | | | | |
| | | | C. Biological Techniques | 23UMB6DSE2C | | | | | | |
| | | Project | Project Work | 24UMB6PW | 4 | 3 | - | - | 100 | 100 |
| | V | Gender Studies | Gender Studies | 22UGGS | 1 | 1 | - | - | - | 100 |
| | | Extension activity | | 22UGEA | 0 | 1 | - | - | - | - |
| | | | | **TOTAL** | **30** | **25** | | | | **700** |
| | | | | **GRANDTOTAL** | **180** | **140** | | | | **4500** |

- **@ NCC is one of the choices in GEC. Only the NCC cadets are eligible to chooses this course. However, NCC Course is not a Compulsory Course for the NCC Cadets. If the Cadet has not studied Tamil in the school level, she has to take Basic Tamil Course.**
- *** Health and Wellness shall be outside instruction hours**

Courses & Credits for UG Science Programmes
LEARNING OUTCOME BASED CURRICULUM FRAMEWORK (CBCS - LOCF)
(For the Candidates admitted from the Academic year 2024-2025 and onwards)

| Part | Course | No. of Courses | Hours/ Course | Credits | Total Credits |
|---|---|---|---|---|---|
| I | Tamil/ Other Language | 4 | 6 | 12 | 12 |
| II | English | 4 | 6 | 12 | 12 |
| III | Core (Theory)<br>Core (Practical)<br>CC/CP-III<br>Cyber Security | 9<br>6<br>1<br>1 | 5/6<br>3/4<br>2<br>5 | 9*5=45<br>6*3=18<br>1*2=2<br>1*4=4 | **98** |
| | Project Work | 1 | 4 | 3 | |
| | Internship | 1 | - | 2 | |
| | First Allied | 3 | 3/4 | 3*3=9 | |
| | Second Allied | 3 | 3/4 | 3*3=9 | |
| | DSE | 2 | 5 | 2*3=6 | |
| IV | GEC | 2 | 2 | 2*2=4 | 17 |
| | SEC | 2 | 2 | 2*2=4 | |
| | AECC-I -Universal Human Values | 1 | 2 | 2 | |
| | AECC-II-Environmental Studies | 1 | 2 | 2 | |
| | AECC-III-Innovation and Entrepreneurship | 1 | 2 | 1 | |
| | AECC-IV- Health and Wellness | 1 | - | 1 | |
| | AECC-V Professional Skills | 1 | 2 | 2 | |
| | AECC-VI Gender Studies | 1 | 1 | 1 | |
| V | Extension Activities | 0 | - | 1 | 01 |
| | | **45** | | 140 | **140** |

Internal and external marks for theory and practical papers are as follows:

| Subject | Internal Marks | External Marks |
|---|---|---|
| Theory | 25 | 75 |
| Practical | 40 | 60 |

**For Theory:**

a) The passing minimum for CIA shall be 40% out of 25marks (i.e. 10marks)

b) The passing minimum for End Semester Examinations shall be 40% out of 75 marks (i.e.30marks)

**For Practical:**

a) The passing minimum for CIA shall be 40% out of 40 marks (i.e. 16marks)

b) The passing minimum for End Semester Examinations shall be 40% out of 60marks (i.e.,24 marks)

**Internal Component (Theory)**

| Component | Marks |
|---|---|
| Quiz | 10 |
| Assignment &Seminar | 10 |
| CIA -I | 05 |
| Total | 25 |

**Internal Component (Practical)**

| Component | Marks |
|---|---|
| Record Note | 10 |
| Continuous Performancein Practical(Attendance and Observation) | 15 |
| CIA | 15 |
| | 40 |

**Question Paper Pattern for different courses+**

| Semester: IV | Internal Marks:40 | | External Marks:60 | |
|---|---|---|---|---|
| COURSE CODE | COURSE TITLE | CATEGORY | HRS/WEEK | CREDITS |
| 24UMB4CC4P | IMMUNOLOGY (P) | CORE PRACTICAL | 4 | 3 |

**Course Objective**

To enable the students to identify, analyze and observe various techniques in immunology.

**Prerequisites**

To acquire adequate skill to handle immune techniques.

**Course Outcomes and Cognitive Level Mapping**

| CO Number | CO Statement | Cognitive level |
|---|---|---|
| CO1 | Recall the immunological reactions. | K1 |
| CO2 | Demonstrate the advance immunological techniques. | K2 |
| CO3 | Develops kills to hem agglutination. | K3 |
| CO4 | Competently count blood cells and its differentiation | K3 |
| CO5 | Explain various techniques in immunology. | K4 |

**Mapping of CO with PO and PSO**

| COs | PSO1 | PSO2 | PSO3 | PSO4 | PSO5 | PO1 | PO2 | PO3 | PO4 | PO5 |
|---|---|---|---|---|---|---|---|---|---|---|
| CO1 | 3 | 2 | 2 | 3 | 3 | 3 | 2 | 2 | 2 | 3 |
| CO2 | 3 | 2 | 3 | 3 | 2 | 3 | 2 | 2 | 3 | 3 |
| CO3 | 3 | 3 | 3 | 2 | 3 | 3 | 3 | 3 | 3 | 2 |
| CO4 | 3 | 3 | 2 | 3 | 2 | 3 | 2 | 2 | 3 | 2 |
| CO5 | 3 | 3 | 3 | 2 | 3 | 3 | 3 | 3 | 3 | 2 |

"1"–Slight (Low)Correlation
"2" – Moderate (Medium) Correlation
"3"–Substantial (High)Correlation
"-" indicates there is no correlation

**Syllabus (60 Hours)**

1. Haemagglutination – ABO Blood grouping.
2. Rh Typing
3. Total count (RBC and WBC).
4. Differential Count (WBC).
5. Agglutination reactions–WIDAL, RPR, CRP.
6. ASO
7. Precipitation reactions: Single and Double immune diffusion.
8. Demonstration of ELISA
9. Demonstration of western blotting

**Reference Books**


1. AbbasAK, LichtmanAH ,ShivPillai. Cellular and Molecular Immunology, 10th Edition. Elsevier, 2021.
2. Tobili Y. Sam-Yellowe. Immunology: Overview and Laboratory Manual. 2021(1st edition) Elsevier.
3. Saha r. Microbiology practical manual (2nd edition).Cbs publishers & distributors pvt. Ltd,2022.
4. Fumiichiro Yamamoto. ABO +logy (1st edition ).Assign me a free ISBN; 2023.
5. Abbas. Cellular and Molecular Immunology(10th edition).South Asia Edition Paperback,2021.
6. Shrimati Dharmapal Shetty. CMR-NIIH Practical Guide to Laboratory Immuno hematology (1stedition). Jaypee Brothers Medical Publishers, 2020.


**Web link**

1. https://www.urmc.rochester.edu/MediaLibraries/URMCMedia/labs/frelingerlab/documents/Immunology-Lab-Manual.pdf
2. https://www.urmc.rochester.edu/MediaLibraries/URMCMedia/labs/fr
3. Monica Cheesbrough. District Laboratory Practice in TropicalCountries - Part Iand II (Second Edition). Cambridge University Press, New Delhi.
4. https://www.sciencedirect.com/book/9780128180068/clinical-immunology
5. https://www.urmc.rochester.edu/MediaLibraries/URMCMedia/labs/frelinger-lab/documents/Immunology-Lab-Manual.pdf
6. https://www.scribd.com/doc/53764085/Immunotechniques

**Pedagogy**

Power point presentations, Group Discussion, Quiz, Brain Storming Activity.

**Course Designer**

Ms.R.Kiruthiga

| Semester: VI | Internal Marks: 25 | | External Marks: 75 | |
|---|---|---|---|---|
| **COURSE CODE** | **COURSE TITLE** | **CATEGORY** | **HRS./WEEK** | **Credits** |
| **24UMB6CC10** | **FOOD AND DAIRY MICROBIOLOGY** | **CORE COURSE** | **6** | **5** |

**Course Objective**

To enable the students to acquire knowledge in key concepts of food and dairy microbiology and to know various methods of food fermentation, types of food borne diseases and their prevention.

**Course Outcome and Cognitive Level Mapping**

| CO Number | CO Statement | Cognitive Level |
|---|---|---|
| CO1 | Define and understand food microbes and methods of fermentation | K1, K2 |
| CO2 | Analyze and explain food borne infections and intoxications | K3, K4 |
| CO3 | Determine and apply Asepsis techniques in food preservation | K3, K4 |
| CO4 | Evaluate and categorize properties of milk and its assessment | K4, K5 |
| CO5 | Criticize and manage fermented dairy products. | K5, K6 |

**Mapping of CO with PO and PSO**

| COs | PSO1 | PSO2 | PSO3 | PSO4 | PSO5 | PO1 | PO2 | PO3 | PO4 | PO5 |
|---|---|---|---|---|---|---|---|---|---|---|
| **CO1** | 3 | 3 | 3 | 2 | 3 | 3 | 2 | 3 | 3 | 2 |
| **CO2** | 2 | 2 | 2 | 2 | 2 | 3 | 2 | 3 | 2 | 2 |
| **CO3** | 2 | 3 | 2 | 2 | 3 | 3 | 2 | 3 | 2 | 2 |
| **CO4** | 3 | 2 | 3 | 2 | 2 | 3 | 2 | 3 | 2 | 1 |
| **CO5** | 3 | 3 | 3 | 3 | 2 | 3 | 2 | 3 | 3 | 2 |

"1" – Slight (Low) Correlation "2" – Moderate (Medium) Correlation

"3" – Substantial (High) Correlation "-" indicates there is no correlation=

**Syllabus**

| UNIT | CONTENT | HOURS | COS | COGNITIVE LEVEL |
|---|---|---|---|---|
| I | **Food Microbes and Fermentation**: Microorganisms in food- Bacteria, molds, yeast. Factors influencing microbial growth in food- pH, moisture, oxidation – Reduction potential, Nutrient content and Inhibitory substances. Methods of fermentations and organisms used - bread, wine, beer. Fermented vegetables- pickled cucumber, sauerkraut – soy sauce. Prebiotics, Probiotics, Synbiotics - Advantages. | 18 | CO1, CO2, CO3 | K1, K2, K3, K4 |
| II | **Food Borne infections and intoxications**: Food borne infections and food poisoning. Food spoilage and contamination – *Staphylococcus, Clostridium, Escherichia coli* and *Salmonella* infections, *Hepatitis, Amoebiosis* and Mycotoxins. | 18 | CO1, CO2, CO3, CO4 | K1, K2, K3, K4, K5 |
| III | **Food preservations**: General principles- Physical and chemical methods. Canning of food items, Asepsis - Techniques of removal – use of temperature (low & high). Drying, radiation and chemical preservatives. Preservation of cereals, vegetables, fruits, meat, Fish, poultry and dairy products. Food sanitation and control measures, Food standards- HACCP, FDA, FSSAI, WHO. | 18 | CO1, CO2, CO3, CO4, | K1, K2, K3, K4, K5 |
| IV | **Dairy Microbiology**: Introduction - Composition - Physical and chemical properties of milk. Microbes in milk, Starter cultures, sources of contamination. Processing of milk - homogenization, Pasteurization, storage, and transportation. Microbiological analysis of milk- Direct Microscopic count, standard plate count, MBRT. | 18 | CO1, CO2, CO3, CO4, CO5 | K1, K2, K3, K4, K5, K6 |
| V | **Fermented Dairy products**- Fluid milk products and dried milk Products. Skimmed milk powder, other dairy products: Ice Cream, Butter, Whey. Milk Fermentation – Yoghurt, cheese, butter milk and Kefir. | 18 | CO1, CO2, CO3, CO4, CO5 | K1, K2, K3, K4, K5, K6 |
| VI | **Self Study for Enrichment**<br>**(Not included for End Semester Examinations)**<br>Spoilage in canned foods, frozen dairy products, Detection of food-borne pathogens. | - | CO1, CO2, CO3, CO4, CO5 | K1, K2, K3, K4, K5, K6 |

**Text Books**


1. Frazier. W.C and D.C Westhoff (2017). Food Microbiology. 5th Edition. Tata Mc Graw Hill publishing Co.
2. Aneja. K.R. (2018). Modern Food Microbiology. 1st Edition. Med tech. Scientific International.
3. Virendra Kumar Pandey. (2021). Text book of Food Microbiology. 1st Edition. INSC International Publishers.
4. Foster. W.M. (2020). Food Microbiology. 1st Edition. CBS Publishers & Distributors Pvt. Ltd.
5. Adam M. and Dick M. (2023). Food Microbiology: An Introduction. 3rd Edition. Scientific International Pvt. Ltd.
6. Vijaya Ramesh. R. (2021). Food Microbiology. 1st Edition. Mjp Publishers.


**Reference Books**


7. Rajan, S. and Selvi Christy, R. (2018). Essentials of Microbiology. 4th Edition. CBS Publishers and Distributors Pvt. Ltd.
8. Joanne M. Willey, Kathleen M. Sandman and Dorothy H. Wood (2022). Prescott's Microbiology. 12th Edition. McGraw-Hill Education.
9. Neelima Garg, Garg, K.L. and Mukerji, K.G. (2020). Laboratory Manual of Food Microbiology. 1st Edition. Dream tech Press.
10. Suresh Chandra, Ratnesh Kumar, Ruchi Verma. (2022). Food Technology: Objective Food Microbiology. 1st Edition. New India Publishing Agency (NIPA), New Delhi.
11. Joshi, R. D., Kulkarni, R. V., Mule, P. R. (2018). Dairy Microbiology & Technology. 1st Edition. Oxford Book Company.
12. Getachew Osei (2018). Food and Dairy Microbiology. 1st Edition. Bio-Green Publishers.


**Web References**

1. https://www.wikilectures.eu/w/Micro-organisms_in_Foods
2. https://byjus.com/biology/role-of-microbes-in-food-processing/
3. https://www.healthline.com/nutrition/probiotics-and-prebiotics
4. https://byjus.com/biology/food-preservation-methods-food-poisoning/
5. https://www.britannica.com/topic/food-preservation
6. https://www.onlinebiologynotes.com/food-borne-disease-food-poisoning-and-food-infection-with-example/
7. https://microbenotes.com/spoilage-of-milk-and-milk-products/

**Pedagogy**

Power point presentations, Group Discussions, Seminar, Quiz, Assignment, Brain Storming Activity.

**Course Designer**

Dr. S. Jenny

# ANNEXURE N

**CAUVERY COLLEGE FOR WOMEN(AUTONOMOUS)**
**Nationally Accredited (IV Cycle) with A+ Grade by NAAC**
**Annamalai Nagar,Tiruchirappalli**

DEPARTMENT OF BIOTECHNOLOGY

MINUTES OF THE TWELEVETH MEETING OF THE BOS

**DATE : 3.04.2025**
**VENUE : Biotechnology Lab**
**TIME : 9.30am**

Members Present:

| | |
|---|---|
| 1. Dr. R. Rameshwari | Chairperson & Head |
| 2. Ms. R. Nevetha | Member |
| 3. Dr. R .Uma Maheswari | Member |
| 4. .Ms. S. Arthi | Member |
| 5. Dr. G. Gomathi | Member |

The leave of absence was granted to

1. Ms.P.Ilamathy.

**CAUVERY COLLEGE FOR WOMEN (AUTONOMOUS)**
**Nationally Accredited (IV Cycle) with A+ Grade by NAAC**
**Annamalai Nagar, Tiruchirappalli**

DEPARTMENT OF BIOTECHNOLOGY

AGENDA OF THE TWELEVETH MEETING OF THE BOS

**The Agenda for the meeting is as follows:**

**DATE:** **3.04.2025**
**VENUE:** **Biotechnology Lab**
**TIME:** **9.30am**

**RESOLUTION NO.BOS/12/25/01**

To consider and approve the syllabus of AECC-IV, GEC-I of III Semester and GEC-II of IV Semester of B.Sc., Biotechnology for 2024-2025 batch & onwards and to ratify the Credits of CP- IV of IV Semester, CC-X, Project work of VI Semester of 2024-2025 batch onwards.

**RESOLUTION NO.BOS/12/25/02**

Any other matter with permission of the chair

**ACTION TAKEN REPORT OF THE BOS HELD ON 3.04.2025**

BOS Meeting was held on 3.04.2025.The Chairman of the BOS read the minutes of meeting and the following resolution were confirmed.

1. Confirmation of the semester V & VI of B.Sc., Biotechnology of 2023-2024 batch & onwards.

2. Ratification of Credits CC-VI, CC-VII, DSE-I of Semester V of B.Sc., Biotechnology for 2023-2024 batch.

3. Ratification of Credits CC-IX, CC-X and DSE-II of Semester- VI of B.Sc., Biotechnology for 2023-2024 batch.

**MINUTES OF THE TWELEVETH MEETING OF THE BOS HELD ON 3.04.2025**

**RESOLUTION OF NO.BOS/12/25/01**

- Resolved to approve the syllabus of AECC-IV Health & Wellness (24UGHW) with 1 credit
- GEC-I - Introduction to NCC (24UNC3GEC1) in III Semester and GEC-II-Specialization in Army (24UNC4GEC2) in IV Semester for NCC cadets of B.Sc., Biotechnology for 2024-2025 batch and onwards.
- CP-IV Immunology is ratified with 3 Credits and Course Code 24UBT4CC4P.
- Internship is ratified with 30 days and 2 Credits and Course Code 24UBT5INT and shifted from III Semester holidays to IV Semester holidays. Internship viva- voce to be held on V Semester.
- CC-X-IPR, Biosafety and Bioethics is ratified with 5 credits and Course Code is 24UBT6CC10 in Semester VI.
- Project work is ratified with 3 Credits and 4 hours and Course Code is 24UBT6PW.

Dr. R. Rameshwari, Chairperson & Head proposed vote of thanks and expressed her gratitude for the valuable suggestions given by the internal members during the BOS meeting and thanked all the members of BOS.

Chairman of the Board

**Cauvery College for Women (Autonomous), Trichy -18**

Department of Biotechnology, B.Sc., Biotechnology

Learning Outcome Based Curriculum Framework (CBCS - LOCF)

(For the Candidates admitted from the Academic year 2024-2025 and onwards)

| Semester | Part | Course | Course Title | Course Code | Inst. Hrs | Credits | Exam | | | Total |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | Hrs. | Marks | | |
| | | | | | | | | Int | Ext | |
| I | I | Language Course-I (LC) | Podhu Tamil –I | 23ULT1 | 6 | 3 | 3 | 25 | 75 | 100 |
| | | | Hindi ka Samanya Gyan aur Nibandh | 23ULH1 | | | | | | |
| | | | Poetry, Grammar and History of Sanskrit Literature | 23ULS1 | | | | | | |
| | | | Foundation Course: Paper I - French I | 23ULF1 | | | | | | |
| | II | English Language Course -I (ELC) | General English -I | 23UE1 | 6 | 3 | 3 | 25 | 75 | 100 |
| | III | Core Course – I (CC) | Cell Biology | 22UBT1CC1 | 5 | 5 | 3 | 25 | 75 | 100 |
| | | Core Practical - I (CP) | Cell Biology (P) | 22UBT1CC1P | 3 | 3 | 3 | 40 | 60 | 100 |
| | | First Allied Course- I (AC) | General Microbiology | 22UBT1AC1 | 4 | 3 | 3 | 25 | 75 | 100 |
| | | First Allied Course- II | Biochemistry | 22UBT1AC2 | 4 | 3 | 3 | 25 | 75 | 100 |
| | IV | Ability Enhancement Compulsory Course-I (AECC) | Value Education | 23UGVE | 2 | 2 | - | 100 | - | 100 |
| | **Total** | | | | **30** | **22** | | | | **700** |
| II | I | Language Course - II(LC) | Podhu Tamil -II | 23ULT2 | 6 | 3 | 3 | 25 | 75 | 100 |
| | | | Hindi Literature & Grammar – II | 22ULH2 | | | | | | |
| | | | Prose, Grammar and History of Sanskrit literature | 23ULS2 | | | | | | |
| | | | Basic French – II | 22ULF2 | | | | | | |
| | II | English Language Course -II (ELC) | General English -II | 23UE2 | 6 | 3 | 3 | 25 | 75 | 100 |
| | III | Core Course – II (CC) | Molecular Biology & Genetics | 22UBT2CC2 | 5 | 5 | 3 | 25 | 75 | 100 |
| | | Core Practical - II (CP) | Molecular Biology & Genetics (P) | 22UBT2CC2P | 3 | 3 | 3 | 40 | 60 | 100 |
| | | Core Course - III (CC) | Biomolecular Techniques | 23UBT2CC3 | 2 | 2 | 3 | 25 | 75 | 100 |
| | | First Allied Course – III(AP) | Microbiology & Biochemistry (P) | 23UBT2AC3P | 4 | 3 | 3 | 25 | 75 | 100 |
| | IV | Ability Enhancement Compulsory Course-II(AECC) | Environmental Studies | 22UGEVS | 2 | 2 | - | 100 | - | 100 |
| | | Ability Enhancement Compulsory Course-III(AECC) | Innovation and Entrepreneurship | 22UGIE | 2 | 1 | - | 100 | - | 100 |
| | Extra Credit Course | | SWAYAM | As per UGC Recommendation | | | | | | |
| | | | | **Total** | **30** | **22** | | | | **800** |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| III | I | Language Course-III(LC) | Podhu Tamil – III | 23ULT3 | 6 | 3 | 3 | 25 | 75 | 100 |
| | | | Hindi Literature & Grammar – III | 22ULH3 | | | | | | |
| | | | Drama, Grammar and History of Sanskrit Literature | 23ULS3 | | | | | | |
| | | | Intermediate French-I | 22ULF3 | | | | | | |
| | II | English Language Course-III (ELC) | Learning Grammar Through Literature-I | 23UE3 | 6 | 3 | 3 | 25 | 75 | 100 |
| | III | Core Course– IV(CC) | rDNA Technology | 23UBT3CC4 | 5 | 5 | 3 | 25 | 75 | 100 |
| | | Core Practical - III(CP) | rDNATechnology(P) | 22UBT3CC3P | 3 | 3 | 3 | 40 | 60 | 100 |
| | | Second Allied Course-I (AC) | Bioinformatics | 22UBT3AC4 | 4 | 3 | 3 | 25 | 75 | 100 |
| | | Second Allied Course-II(AP) | Bioinformatics (P) | 22UBT3AC5P | 4 | 3 | 3 | 40 | 60 | 100 |
| | IV | Ability Enhancement Compulsory Course – IV (AECC) | Health and Wellness | 24UGHW | 2* | 1 | - | 100 | - | 100 |
| | | Generic Elective Course- I(GEC) | Introduction to NCC@ | 24UNC3GEC1 | | | | | | |
| | | | Basic Tamil -I | 22ULC3BT1 | | | | | | |
| | | | Special Tamil – I | 22ULC3ST1 | | | | | | |
| | | Extra Credit Course | SWAYAM | | As per UGC Recommendation | | | | | |
| | | **Total** | | | **30** | **23** | | | | **800** |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| IV | I | Language Course – IV (LC) | Podhu Tamil – IV | 23ULT4 | 6 | 3 | 3 | 25 | 75 | 100 |
| | | | Hindi Literature & Functional Hindi | 22ULH4 | | | | | | |
| | | | Alankara, Didactic and Modern Literatures and Translation | 23ULS4 | | | | | | |
| | | | Intermediate French – II | 22ULF4 | | | | | | |
| | II | English Language Course –IV (ELC) | Learning Grammar Through Literature – II | 23UE4 | 6 | 3 | 3 | 25 | 75 | 100 |
| | III | Core Course – V(CC) | Immunology | 23UBT4CC5 | 6 | 5 | 3 | 25 | 75 | 100 |
| | | Core Practical - IV(CP) | Immunology (P) | 24UBT4CC4P | 4 | 3 | 3 | 40 | 60 | 100 |
| | | Second Allied Course - III(AC) | Basics of Forensic Biology | 22UBT4AC6 | 4 | 3 | 3 | 25 | 75 | 100 |
| | IV | Generic Elective Course-II(GEC) | Specialisation in Army@ | 24UNC4GEC2 | 2 | 2 | 3 | 25 | 75 | 100 |
| | | | Basic Tamil – II | 22ULC4BT2 | | | | | | |
| | | | Special Tamil – II | 22ULC4ST2 | | | | | | |
| | | Skill Enhancement Course –I (SEC) | Medical Lab Technology - I (P) | 22UBT4SEC1P | 2 | 2 | 3 | 40 | 60 | 100 |
| | | Extra Credit Course | SWAYAM | | As per UGC Recommendation | | | | | |
| | | **Total** | | | **30** | **21** | | | | **700** |

**30 Days INTERNSHIP during Semester Holidays***

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| V | III | Core Course – VI(CC) | Plant Biotechnology | 23UBT5CC6 | 6 | 5 | 3 | 25 | 75 | 100 |
| | | Core Practical – V(CP) | Plant & Animal Biotechnology(P) | 22UBT5CC5P | 3 | 3 | 3 | 40 | 60 | 100 |
| | | Core Course - VII(CC) | Animal Biotechnology | 23UBT5CC7 | 6 | 5 | 3 | 25 | 75 | 100 |
| | | Core Course – VIII(CC) | Biostatistics | 23UBT5CC8 | 6 | 5 | 3 | 25 | 75 | 100 |
| | | Internship | Internship | 24UBT5INT | - | 2 | - | - | - | 100 |
| | | Discipline Specific Elective – I (DSE) | A. Cancer Biology | 23UBT5DSE1A | 5 | 3 | 3 | 25 | 75 | 100 |
| | | | B. Human Anatomy and Physiology | 23UBT5DSE1B | | | | | | |
| | | | C. Pharmacognosy | 23UBT5DSE1C | | | | | | |
| | IV | Ability Enhancement Compulsory Course – IV (AECC) | UGC Jeevan Kaushal -Professional Skills | 22UGPS | 2 | 2 | - | 100 | - | 100 |
| | | Skill Enhancement Course –II (SEC) | Medical Lab Technology -II (P) | 22UBT5SEC2P | 2 | 2 | 3 | 40 | 60 | 100 |
| | | **Total** | | | **30** | **27** | | | | **800** |
| VI | III | Core Course – IX (CC) | Microbial & Environmental Biotechnology | 23UBT6CC9 | 6 | 5 | 3 | 25 | 75 | 100 |
| | | Core Practical –VI (CP) | Microbial & Environmental Biotechnology(P) | 22UBT6CC6P | 3 | 3 | 3 | 40 | 60 | 100 |
| | | Core Course – X (CC) | IPR, Biosafety and Bioethics | 24UBT6CC10 | 6 | 5 | 3 | 25 | 75 | 100 |
| | | Core Course – XI (CC) | Cyber Security | 22UGCS | 5 | 4 | 3 | 25 | 75 | 100 |
| | | Discipline Specific Elective – II (DSE) | A. Developmental Biology | 23UBT6DSE2A | 5 | 3 | 3 | 25 | 75 | 100 |
| | | | B. Stem CellBiology | 23UBT6DSE2B | | | | | | |
| | | | C. Bioentrepreneurship | 23UBT6DSE2C | | | | | | |
| | | Project | Project Work | 24UBT6PW | 4 | 3 | - | - | 100 | 100 |
| | IV | Ability Enhancement Compulsory Course – V (AECC) | Gender Studies | 22UGGS | 1 | 1 | - | 100 | - | 100 |
| | V | Extension activity | | 22UGEA | - | 1 | - | - | - | - |
| | | **Total** | | | **30** | **25** | | | | **700** |
| | | | | **Grand Total** | **180** | **140** | | | | **4500** |

# ANNEXURE O

**CAUVERY COLLEGE FOR WOMEN (AUTONOMOUS), TRICHY**

**Nationally Accredited (IV Cycle) with "A+" Grade by NAAC**

**DEPARTMENT OF FOOD SERVICE MANAGEMENT & DIETETICS**

**Agenda for the XII Meeting of BoS**

**DATE : 01.04.2025**

**VENUE : Dept. of FSM&D**

**TIME : 12.30 pm**

**The Agenda for the meeting is as follows:**

**ITEM NO: BOS/12/25/01**

To consider and to approve the ratification of Core Practical -IV of Semester IV of B.Sc. Nutrition & Dietetics 2024-2025 batch onwards and recommend to the Academic Council, Cauvery College for Women (Autonomous), Trichy.

**ITEM NO: BOS/12/25/02**

To consider and to approve the 30 days Internship during semester holidays after completion of Semester IV and evaluation will be done in Semester V of B.Sc. Nutrition & Dietetics 2024-2025 batch onwards and recommend to the Academic Council, Cauvery College for Women (Autonomous), Trichy.

**ITEM NO: BOS/12/25/03**

To consider and to approve the ratification of Core Course -X and Project work of Semester VIof B.Sc. Nutrition & Dietetics 2024-2025 batch onwards and recommend to the Academic Council, Cauvery College for Women (Autonomous), Trichy.

**ITEM NO: BOS/12/25/04**

Any other matter with the permission of the chair.

**CAUVERY COLLEGE FOR WOMEN (AUTONOMOUS), TRICHY.**
**Nationally Accredited (IV Cycle) with "A+" Grade by NAAC**
**DEPARTMENT OF FOOD SERVICE MANAGEMENT AND DIETETICS**

## MINUTES OF THE XII MEETING OF THE BOS

**DATE : 01.04.2025**

**VENUE : Dept. of FSM&D**

**TIME : 12.30 pm**

**Members Present**

| | | |
|---|---|---|
| 1. | Dr.B.Thanuja | Chairperson, Associate Professor & HoD |
| 2. | Ms.S.Fathima | Member |
| 3. | Ms.V.Ramya | Member |
| 4. | Ms.E.Agalya | Member |
| 5. | Ms.T.R Revathi | Member |
| 6. | Ms.C,Nivetha | Member |
| 7. | Ms.N.Ganga Devi | Member |
| 8. | Ms.L.Gayathri | Member |

## DEPARTMENT OF FOOD SERVICE MANAGEMENT AND DIETETICS

## ACTION TAKEN REPORT OF XI BOS MEET HELD ON 14/10/2024

The XI BOS Meeting was held on 14/10/2024. The following resolutions were confirmed,

- Resolved to approve the ratification of Core Course-VI, Core Course -VII, Core course -VIII and Discipline Specific Elective -I in Semester V of B.Sc. Nutrition & Dietetics 2023-2024 batch onwards and recommend to the Academic Council, Cauvery College for Women (Autonomous), Trichy.
- Resolved to approve the ratification of Core Course – IX, Core Course – X & Discipline Specific Elective -II in Semester VI of B.Sc. Nutrition & Dietetics 2023-2024 batch and onwards and recommend to the Academic Council, Cauvery College for Women (Autonomous), Trichy.

## MINUTES OF THE XII BOS MEETING HELD ON 01.04.2025

The following Resolutions were passed by the BoS members

**RESOLUTION NO: BOS/12/25/01**

Resolved to approve the ratification of Core Practical -IV of Semester IV of B.Sc. Nutrition & Dietetics 2024-2025 batch onwards and recommend to the Academic Council, Cauvery College for Women (Autonomous), Trichy.

**Core Course - IV – Diet Therapy II(P) (22UND4CC4P)**

The Number of credits reduced from 4 to 3.

Course Code Changed as - **24UND4CC4P**

**RESOLUTION NO: BOS/12/25/02**

Resolved to approve the 30 days Internship during semester holidays after completion of Semester IV and evaluation will be done in Semester V of B.Sc. Nutrition & Dietetics 2024-2025 batch onwards and recommend to the Academic Council, Cauvery College for Women (Autonomous), Trichy.

**Internship (22UND4INT))**

Credit -2

Internal - 40 Marks; External - 60 Marks; Total -100 Marks

Course Code Changed as – **24UND5INT**

**RESOLUTION NO: BOS/12/25/03**

Resolved to approve the ratification of Core Course -X and Project work of Semester VI of B.Sc. Nutrition & Dietetics 2024-2025 batch onwards and recommend to the Academic Council, Cauvery College for Women (Autonomous), Trichy.

- **Core Course - X - Food Service Management (23UND6CC10)**

The number of hours reduced from 6 to 5. The number of credits reduced from 5 to 4.
The Course code changed as **24UND6CC10.**

**Topics Included -**

**Unit - I (b)** - Methods of standardization,

**Unit - IV (c)** - Books of accounts- Cash Book, Purchase Book, Sales Book, Purchase Returns and Sales Returns Book.

- **Project Work -22UND6PW**

The number of hours reduced from 5 to 4. The number of credits reduced from 4 to 3.
The Course code changed as **24UND6PW.**

Signature of the HOD

**Cauvery College for Women (Autonomous), Tiruchirappalli -620 018**
**Department of FOOD SERVICE MANAGEMENT AND DIETETICS**
**XII Board of Studies Meeting Held on 01/04/2025**

1. **Introduction of new courses from the academic year 2024-2025 based on the Feedback collected from various Stakeholders**

The Chairman of the Board Dr.B.Thanuja, proposed the introduction of the following New course(s) in the curriculum of the B.Sc., Nutrition & Dietetics and M.Sc., Food Service Management & Dietetics from the academic Year 2023-2024.

| Name of the Programme | Name of the Course | Course Code | Year of Introduction |
|---|---|---|---|
| B.Sc., Nutrition & Dietetics | | | |

2. **Revision of syllabus of the existing courses from the academic year 2024 -2025**

The Chairman of the Board, Dr.B.Thanauja, proposed the revision of syllabus in the curriculum of the B.Sc., Nutrition & Dietetics and M.Sc., Food Service Management & Dietetics from the academic Year 2024-2025.

| Name of the Programme | Name of the Course | Course Code | Core/Elective | % of Content added or replaced |
|---|---|---|---|---|
| B.Sc., Nutrition & Dietetics | Food Service Management | 24UND6CC10 | Core | 20% |

Chairman of the Board:

Dean of Science

Principal

# CAUVERY COLLEGE FOR WOMEN
# (AUTONOMOUS)

**NATIONALLY ACCREDITED (IV CYCLE) WITH "A+" GRADE BY NAAC**
**TIRUCHIRAPPALLI**

## DEPARTMENT OF FOOD SERVICE MANAGEMENT AND DIETETICS

# B.Sc., NUTRITION AND DIETETICS

# SYLLABUS

## 2024-2025 and Onwards

**CAUVERY COLLEGE FOR WOMEN (AUTONOMOUS), TRICHY-18**

**DEPARTMENT OF FOOD SERVICE MANAGEMENT AND DIETETICS**

# B.Sc., NUTRITION AND DIETETICS

**LEARNING OUTCOME BASED CURRICULUM FRAME WORK (CBCS-LOCF)**

**(For the Candidates admitted from the Academic year 2024-2025 onwards)**

## Semester I

| Semester | Part | Course | Title | Course Code | Inst .Hrs. / week | Credits | Exam | | | Total |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | Hrs. | Marks Int | Marks Ext | |
| I | I | Language Course – I (LC) – Tamil * / Other Languages * | பொதுத்தமிழ் -I | 23ULT1 | 6 | 3 | 3 | 25 | 75 | 100 |
| | | | Hindi ka Samanya Gyan aur Nibandh | 23ULH1 | | | | | | |
| | | | Poetry, Grammar and History of Sanskrit Literature | 23ULS1 | | | | | | |
| | | | Foundation Course: Paper I- French I | 23ULF1 | | | | | | |
| | II | English Language Course-I (ELC) | General English– I | 23UE1 | 6 | 3 | 3 | 25 | 75 | 100 |
| | III | Core Course –I (CC) | Human Physiology | 23UND1CC1 | 5 | 5 | 3 | 25 | 75 | 100 |
| | | Core Practical-I (CP) | Human Physiology (P) | 23UND1CC1P | 3 | 3 | 3 | 40 | 60 | 100 |
| | | First Allied Course –I (AC) | Food Chemistry | 23UND1AC1 | 4 | 3 | 3 | 25 | 75 | 100 |
| | | First Allied Course –II (AP) | Food Chemistry (P) | 23UND1AC2P | 4 | 3 | 3 | 40 | 60 | 100 |
| | IV | Ability Enhancement Compulsory Course– I (AECC) | Value Education | 23UGVE | 2 | 2 | - | 100 | - | 100 |
| | | **TOTAL** | | | **30** | **22** | | | | **700** |

## Semester II

| Semester | Part | Course | Title | Course Code | Inst .Hrs. / week | Credits | Exam | | | Total |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | Hrs. | Marks | | |
| | | | | | | | | Int | Ext | |
| II | I | Language Course – II (LC) – Tamil * / Other Languages * | பொதுத்தமிழ் - II | 23ULT2 | 6 | 3 | 3 | 25 | 75 | 100 |
| | | | Hindi Literature & Grammar - II | 22ULH2 | | | | | | |
| | | | Prose, Grammar and History of Sanskrit literature | 23ULS2 | | | | | | |
| | | | Basic French - II | 22ULF2 | | | | | | |
| | II | English Language Course-II (ELC) | General English - II | 23UE2 | 6 | 3 | 3 | 25 | 75 | 100 |
| | III | Core Course –II (CC) | Nutrition Through Life Span | 22UND2CC2 | 5 | 5 | 3 | 25 | 75 | 100 |
| | | Core Practical-II (CP) | Nutrition Through Life Span (P) | 22UND2CC2P | 3 | 3 | 3 | 40 | 60 | 100 |
| | | Core Course –III (CC) | Food Science | 23UND2CC3 | 2 | 2 | 3 | 25 | 75 | 100 |
| | | First Allied Course – III (AC) | Macro and Micro Nutrients | 23UND2AC3 | 4 | 3 | 3 | 25 | 75 | 100 |
| | IV | Ability Enhancement Compulsory Course– II (AECC) | Environmental Studies | 22UGEVS | 2 | 2 | - | 100 | - | 100 |
| | | Ability Enhancement Compulsory Course– III (AECC) | Innovation and Entrepreneurship | 22UGIE | 2 | 1 | - | 100 | - | 100 |
| | | Extra Credit Course | SWAYAM ONLINE COURSE | | As per UGC Recommendation | | | | | |
| | | **TOTAL** | | | **30** | **22** | | | | **800** |

## Semester III

| Sem | Part | Course | Title | Course Code | Inst. Hrs/Week | Credits | Exam | | | Total |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | Hrs | Marks | | |
| | | | | | | | | Int | Ext | |
| III | I | Language Course – III (LC) – Tamil* / Other Languages *) | பொதுத்தமிழ்-III | 23ULT3 | 6 | 3 | 3 | 25 | 75 | 100 |
| | | | Hindi Literature & Grammar III | 22ULH3 | | | | | | |
| | | | Drama, Grammar and History of Sanskrit Literature | 23ULS3 | | | | | | |
| | | | Intermediate French - I | 22ULF3 | | | | | | |
| | II | English Language Course- III (ELC) | Learning Grammar Through Literature - I | 23UE3 | 6 | 3 | 3 | 25 | 75 | 100 |
| | III | Core Course– IV(CC) | Diet Therapy I | 23UND3CC4 | 5 | 5 | 3 | 25 | 75 | 100 |
| | | Core Practical–III (CP) | Diet Therapy I (P) | 22UND3CC3P | 3 | 3 | 3 | 40 | 60 | 100 |
| | | Second Allied Course- I (AC) | Nutritional Biochemistry | 22UND3AC4 | 4 | 3 | 3 | 25 | 75 | 100 |
| | | Second Allied Course – II (AP) | Nutritional Biochemistry (P) | 22UND3AC5P | 4 | 3 | 3 | 40 | 60 | 100 |
| | IV | Ability Enhancement Compulsory Course - IV (AECC) | Health and Wellness | 24UGHW | 2* | 1 | - | 100 | - | 100 |
| | | Generic Elective Course– I (GEC) | Basics in Nutrition | 22UND3GEC1 | 2 | 2 | 3 | 25 | 75 | 100 |
| | | | Basic Tamil - I | 22ULC3BT1 | | | | | | |
| | | | Special Tamil - I | 22ULC3ST1 | | | | | | |
| | | | Introduction to NCC@ | 24UNC3GEC1 | | | | | | |
| | | Extra Credit Course | SWAYAM ONLINE COURSE | | As per UGC Recommendation | | | | | |
| | | **TOTAL** | | | **30** | **23** | | | | **800** |

## Semester IV

| Sem | Part | Course | Title | Course Code | Inst. Hrs/ Week | Credits | Exam | | | Total |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | Hrs | Marks | | |
| | | | | | | | | Int | Ext | |
| IV | I | Language Course – IV (LC) Tamil * / Other Languages*) | பொதுத்தமிழ்-IV | 23ULT4 | 6 | 3 | 3 | 25 | 75 | 100 |
| | | | Hindi Literature & Functional Hindi | 22ULH4 | | | | | | |
| | | | Alankara, Didactic and Modern Literatures and Translation | 23ULS4 | | | | | | |
| | | | Intermediate French II | 22ULF4 | | | | | | |
| | II | English Language Course - IV(ELC) | Learning Grammar Through Literature - II | 23UE4 | 6 | 3 | 3 | 25 | 75 | 100 |
| | III | Core Course – V(CC) | Diet Therapy II | 23UND4CC5 | 6 | 5 | 3 | 25 | 75 | 100 |
| | | Core Practical - IV(CP) | Diet Therapy II (P) | 24UND4CC4P | 4 | 3 | 3 | 40 | 60 | 100 |
| | | Second Allied Course – III (AC) | Food Microbiology | 23UND4AC6 | 4 | 3 | 3 | 25 | 75 | 100 |
| | IV | Generic Elective Course– II (GEC) | Meal Planning for the Family | 22UND4GEC2 | 2 | 2 | 3 | 25 | 75 | 100 |
| | | | Basic Tamil - II | 22ULC4BT2 | | | | | | |
| | | | Special Tamil - II | 22ULC4ST2 | | | | | | |
| | | | Specialization in Army@ | 24UNC4GEC2 | | | | | | |
| | | Skill Enhancement Course– I (SEC) | Basics in Food Production (P) | 22UND4SEC1P | 2 | 2 | 3 | 40 | 60 | 100 |
| | | Extra Credit Course | SWAYAM ONLINE COURSE | | As per UGC Recommendation | | | | | |
| | | **TOTAL** | | | **30** | **21** | | | | **700** |
| **30 Days INTERNSHIP during Semester Holidays** | | | | | | | | | | |

## SEMESTER -V

| Sem | Part | Course | Title | Course Code | Inst. s/Week | Credits | Exam | | | Total |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | Hrs | Marks | | |
| | | | | | | | | Int | Ext | |
| V | III | Core Course – VI(CC) | Food Processing and Preservation | 23UND5CC6 | 6 | 5 | 3 | 25 | 75 | 100 |
| | | Core Practical – V(CP) | Food Processing and Preservation (P) | 22UND5CC5P | 3 | 3 | 3 | 40 | 60 | 100 |
| | | Core Course - VII(CC) | Basics in Research Methodology and Computer Applications | 23UND5CC7 | 6 | 5 | 3 | 25 | 75 | 100 |
| | | Core Course – VIII(CC) | Community Nutrition | 23UND5CC8 | 6 | 5 | 3 | 25 | 75 | 100 |
| | | Internship | Internship | 24UND5INT | - | 2 | - | 40 | 60 | 100 |
| | | Discipline Specific Elective – I (DSE) | A. Food Standards and Quality Control | 23UND5DSE1A | 5 | 3 | 3 | 25 | 75 | 100 |
| | | | B. Food Product Development and Marketing | 23UND5DSE1B | | | | | | |
| | | | C. Front Office Management and Housekeeping | 23UND5DSE1C | | | | | | |
| | IV | Ability Enhancement Compulsory Course - V (AECC) | UGC Jeevan Kaushal - Professional Skills | 22UGPS | 2 | 2 | - | 100 | - | 100 |
| | | Skill Enhancement Course – II (SEC) | Bakery and Confectionary (P) | 22UND5SEC2P | 2 | 2 | 3 | 40 | 60 | 100 |
| | | Extra Credit Course | SWAYAM ONLINE COURSE | | As per UGC Recommendation | | | | | |
| | | **TOTAL** | | | **30** | **27** | | | | **800** |

## SEMESTER -VI

| Sem | Part | Course | Title | Course Code | Inst. rs/Week | Credits | Exam | | | Total |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | Hrs | Marks | | |
| | | | | | | | | Int | Ext | |
| VI | III | Core Course – IX(CC) | Perspectives of Home Science | 23UND6CC9 | 6 | 5 | 3 | 25 | 75 | 100 |
| | | Core Course – X(CC) | Food Service Management | 24UND6CC10 | 6 | 5 | 3 | 25 | 75 | 100 |
| | | Core Course – XI(CC) | Cyber Security | 22UGCS | 5 | 4 | 3 | 25 | 75 | 100 |
| | | Core Practical – VI(CP) | Food Service Management (P) | 22UND6CC6P | 3 | 3 | 3 | 40 | 60 | 100 |
| | | Discipline Specific Elective – II (DSE) | A. Functional Foods and Nutraceuticals | 23UND6DSE2A | 5 | 3 | 3 | 25 | 75 | 100 |
| | | | B.Sports Nutrition | 23UND6DSE2B | | | | | | |
| | | | C.Basics in Food Analysis | 23UND6DSE2C | | | | | | |
| | | Project | Project Work | 24UND6PW | 4 | 3 | - | - | 100 | 100 |
| | IV | Ability Enhancement Compulsory Course - VI (AECC) | Gender Studies | 22UGGS | 1 | 1 | - | 100 | - | 100 |
| | V | Extension activity | | 22UGEA | 0 | 1 | 0 | - | - | - |
| | | **TOTAL** | | | **30** | **25** | | | | **700** |
| | | **GRAND TOTAL** | | | **180** | **140** | | | | **4500** |

- **@ NCC is one of the choices in GEC. Only the NCC cadets are eligible to chooses this course. However, NCC Course is not a Compulsory Course for the NCC Cadets. If the Cadet has not studied Tamil in the school level, she has to take Basic Tamil Course.**
- *** Health and Wellness shall be outside instruction hours**

| SEMESTER VI | INTERNAL MARKS: 25 | | EXTERNAL MARKS:75 | |
|---|---|---|---|---|
| **COURSE CODE** | **COURSE TITLE** | **CATEGORY** | **HRS / WEEK** | **CREDITS** |
| **24UND6CC10** | **FOOD SERVICE MANAGEMENT** | **CORE** | **6** | **5** |

**Course Objectives**

- To gain knowledge about various types of food service operations.
- To learn about the principles and functions of management.
- To understand the food laws governing food service establishments.

**Course Outcome and Cognitive Level Mapping**

| CO Number | CO Statement<br>On the successful completion of the course, students will be able to | Cognitive Level |
|---|---|---|
| CO 1 | Identify different types and sectors of food service institutions | K1 |
| CO 2 | Illustrate the process involved in menu planning, purchasing, receiving and storage | K2 |
| CO 3 | Explain the uses of equipments and other resources in production and service. | K3 |
| CO 4 | Apply principles of management in managerial process | K4 |
| CO 5 | Infer components of hygiene, sanitation and laws in food service institutions | K4 |

**Mapping of CO with PO and PSO**

| COs | PSO1 | PSO2 | PSO3 | PSO4 | PSO5 | PO1 | PO2 | PO3 | PO4 | PO5 |
|---|---|---|---|---|---|---|---|---|---|---|
| CO1 | 3 | 2 | 1 | 3 | 3 | 3 | 3 | 2 | 3 | 2 |
| CO2 | 3 | 2 | 1 | 3 | 3 | 3 | 3 | 2 | 3 | 2 |
| CO3 | 3 | 2 | 1 | 3 | 3 | 3 | 3 | 2 | 3 | 2 |
| CO4 | 3 | 2 | 1 | 3 | 3 | 3 | 3 | 2 | 3 | 2 |
| CO5 | 3 | 2 | 1 | 3 | 3 | 3 | 3 | 2 | 3 | 2 |

"1" – Slight (Low) Correlation "2" – Moderate (Medium) Correlation
"3" – Substantial (High) Correlation "-" indicates there is no correlation.

**SYLLABUS**

| UNIT | CONTENT | HOURS | COs | COGNITIV ELEVEL |
|---|---|---|---|---|
| I | **a) Classification of food service institutions**: Objectives and types - profit oriented, service oriented and public health facility oriented.<br>**b) Menu planning:** Definition, functions and types of menu, Principles of menu planning, menu writing, designing and format. Standardization of recipes -Definition, methods of standardization, standard recipe format and uses. Portion control and portioning equipment.<br>**c)Equipment:** Classification, selection, materials used for construction (bases and finishes), care and maintenance of equipment, traditional and modern equipment. | 18 | CO1, CO2, CO3, CO4, CO5 | K1, K2, K3, K4 |
| II | a) **Purchasing:** Food buyer, purchasing procedure, methods of purchasing, standard purchase specification.<br>b) **Receiving:** Receiving area - Location, space allocation, floor planning, delivery types, delivery procedures and receiving procedure.<br>c) **Storage**: Principles of storage (FIFO, LIFO, Bin cards), types of storage, recommended temperatures for storage and inventory control.<br>d) **Computer applications:** Computer applications in food service establishments. | 18 | CO1, CO2, CO3, CO4, CO5 | K1, K2,K3,K4 |

| | | | | |
|---|---|---|---|---|
| **III** | **a) Food Production:** Location, space allocation, planning and layout, pre preparation techniques, objectives and methods of cooking, effective use of leftover foods.<br>**b) Food Service systems:** Conventional system, commissary system, ready prepared (cook –chill, cook –freeze) and fast -food service systems, cloud kitchen food service system.<br>**c) Food distribution** - Centralized and decentralized service systems in hospitals and others.<br>**d)Cooking fuel**: Types, uses, merits, limitations, fuel economy. | 18 | CO1, CO2, CO3, CO4, CO5 | K1,K2,K3,K4 |
| IV | **a) Introduction to Management:** Definition, principles, functions and tools of management. Organization-principles and types.<br>**b) Human Resource Management:** Man power planning –definition, steps and benefits. Sources of recruitment, selection process, induction, orientation. Training – Benefits and types. Performance appraisal process and methods.<br>**c) Financial Management:** Budget - importance, types (Master, Cash, Operating and Capital budget), steps in budget planning. Components of costs, behaviour of costs, food cost control, methods of controlling food costs. Cost calculation - break even and contribution and standard dish costing. Book keeping, systems of book keeping. Books of accounts– Cash Book, Purchase Book, Sales Book, Purchase Returns and Sales Returns Book. | 18 | CO1, CO2, CO3, CO4, CO5 | K1,K2,K3,K4 |

| | | | | |
|---|---|---|---|---|
| V | **a) Hygiene and Sanitation:** Environmental hygiene and sanitation, hygiene in food handling, personnel hygiene. Food Waste management- Food waste disposers.<br>**b) Safety:** Accident from structural inadequacies, accidents from improper placement of equipment, accidents due to nature and behavior of people at work, accidents from improper selection, maintenance and storage of equipment. Safety- "3 Es of safety" (safety engineering, safety education, safety enforcement), legal responsibilities of a food service manager.<br>**c) Laws Governing food service establishments:** Labour laws governing working conditions – The Factories Act, 1948; Welfare -The Employees Provident Fund Act, 1952; Health and safety-Employees State Insurance Act, 1948. | 18 | CO1, CO2, CO3, CO4, CO5 | K1,K2,K3,K4 |
| VI | **SELF STUDY FOR ENRICHMENT**<br>**(Not to be included for External Examination)**<br>Usage of equipment with examples,<br>Types of layouts,<br>Illustrate different kind of cutting techniques,<br>Leadership styles and types,<br>Difference between hygiene and sanitation. | - | CO1, CO2, CO3, CO4, CO5 | K1, K2, K3, K4 |

**Text Books**


1. Sethi M. and Malhan S.M. (20018). *Catering Management- An Integrated Approach*.
   3rd ed. Wiley Eastern Limited, Mumbai.
2. Sethi M, (2015). *Institutional Food Management*, 3rd edition, New age international publishers, New Delhi,
3. Singaravelavan R. (2018). *Food & Beverage Service*. Oxford University press. New Delhi.


**Reference Books**


1. George B and Chatterjee. S.(2010) *Food and beverage Service and Management*, JAICO.
2. West, B.B., Wood, L. etal. (1987). *Food Services in institutions*, John Wiley and Sons, New York.
3. Bhushan, V.K. (1973). *Business Organization and Management*, Sultan Chand & Co.


**Web links**

- https://psu.pb.unizin.org/hmd329/chapter/ch4/
- https://www.pearsonhighered.com/assets/samplechapter/0/1/3/2/0132741733.pdf
- https://ebooks.inflibnet.ac.in/hsp06/chapter/equipment-for-quantity-food-production/

**Journals**

1. Journal of Food Service Management and Education
2. Journal of Food Service, willey publisher, United States.
3. Journal of Food Service Business Research, Taylor and Francis, United Kingdom.

**Pedagogy:**

E-content , Lecture, Power Point Presentation, Seminar, Assignment

**Course Designer:**

- Ms.E.AGALYA

# ANNEXURE P

**CAUVERY COLLEGE FOR WOMEN (AUTONOMOUS)**
**Nationally Accredited (IV Cycle) with A+ Grade by NAAC**
**Annamalai Nagar, Tiruchirappalli**
**DEPARTMENT OF FASHION TECHNOLOGY & COSTUME DESIGNIG**

**Agenda for the First BoS Meeting**

**DATE: 30.06.2025**
**VENUE: BOOT STARP HALL (Online Mode)**
**TIME: 10:00 a.m.**

**The agenda for the meeting is as follows:**

**ITEM NO: BOS/25/01/01**

To consider and to approve the Programme specific outcome (PSO) of B.Sc. Fashion Technology & Costume Designing With cognitive system for 2025-2026 batch and onwards and recommend to the Academic Council, Cauvery College for Women (Autonomous), Trichy

**ITEM NO: BOS/25/01/02**

To consider and to approve the Programme Structure of B.Sc. Fashion Technology & Costume Designing from Semester I to Semester VI for 2025-2026 batch and onwards and recommend to the Academic Council, Cauvery College for Women (Autonomous), Trichy

**ITEM NO: BOS/25/01/03**

To consider and to approve the syllabus of the Core course-I Introduction to fashion designing of B.Sc. Fashion Technology & Costume Designing for the year 2025-2026 and recommend to the Academic Council, Cauvery College for Women (Autonomous), Trichy

**CAUVERY COLLEGE FOR WOMEN (AUTONOMOUS)**
**Nationally Accredited (IV Cycle) with A+ Grade by NAAC**
**Annamalai Nagar, Tiruchirappalli**
**DEPARTMENT OF FASHION TECHNOLOGY & COSTUME DESIGNING**

## MINUTES OF THE FIRST BOS MEETING

**DATE : 30.06.2025**
**VENUE: BOOT STRAP HALL**
**TIME : 10.00 a.m.**

**Members Present:**

| | |
|---|---|
| 1. Dr. S. Grace Annapoorani | Professor,<br>Department of textile and apparel designing,<br>Bharathiyar University,<br>Coimbatore. |
| 2. Dr. S. Suganthi | Assistant Professor & Head,<br>Department of fashion Technology & Costume Designing,<br>Bon Secours College for Women (Autonomous)<br>Thanjavur. |
| 3. Mr. Du. Vellumani | Managing director: C. A. Textile Lab,<br>Founder & Principal Coach: Dream,<br>Factory- Training & HR Solutions,<br>Erode. |
| 4. Miss. Shrinidhi Umanathan | CKYC Operations-Sundaram home finance<br>Founder of Re-tailors<br>Trichy. |
| 5. Mrs. C. Jenitta | Head & Assistant Professor<br>Department of Fashion Technology & Costume Designing<br>Cauvery College for Women (Autonomous) |
| 6. Dr. V. Sinthu Janita | Dean of science<br>Professor & Head<br>Department of Computer Science<br>Cauvery College for Women |
| 7. Dr. G. Sivasankari | Assistant Professor<br>Department of Chemistry<br>Cauvery College for Women |

## MINUTES OF THE FIRST MEETING OF THE BOS HELD ON 30.06.2025

**RESOLUTION No. BOS/25/01/01**

To consider and to approve the Programme specific outcome (PSO) of B.Sc. Fashion Technology & Costume Designing for 2025-2026 batch and onwards and recommend to the Academic Council, Cauvery College for Women (Autonomous), Trichy

### PROGRAMME SPECIFIC OUTCOMES FOR B.Sc. FASHION TECHNOLOGY & COSTUME DESIGNING

| PSO NO. | The students of B.Sc. Fashion Technology & Costume Designing will be able to | POs Addressed |
|---|---|---|
| PSO 1 | Graduate Will Be Able to Conceptualize, Design and Construct a Variety of Garments Using Draping and Sewing Techniques Tailored to Diverse Client and Market Needs. | PO1 |
| PSO 2 | Plan and Execute Apparel Production and Manufacturing Process, From Sourcing Raw Materials to Garment Finishing, Including Quality Control. | PO2, PO3 |
| PSO 3 | Develop Professional Portfolios That Effectively Showcase Creative and Technical Skills and Present Design Concepts Confidently to Clients, Employers or In Academic Forums. | PO4, PO3 |
| PSO 4 | Develop and Understanding of Sustainable Practices in The Fashion Industry, Including Eco-friendly Materials, Ethical Sourcing and Responsible Production Process. | PO2, PO5 |
| PSO 5 | Gain Proficiency in Pattern Making, Drafting and Garment Construction Techniques, Including Both Traditional and Digital Methods. | PO1, PO3 |

**Resolved To approve the Programme Specific Outcome (PSO) of B.Sc. Fashion Technology & Costume Designing for 2025-2026 batch and onwards and recommend to the Academic Council, Cauvery College for Women (Autonomous), Trichy**

**RESOLUTION No. BOS/25/01/02**

To consider and to approve the Programme Structure of B.Sc. Fashion Technology & Costume Designing from Semester I to semester VI for 2025-2026 batch and onwards and recommend to the Academic Council, Cauvery College for Women (Autonomous), Trichy

**IV SEMESTER OF 2025-2026 BATCH AND ONWARDS**

1. **Core Course -IV:25UFT4CC4- Garment Manufacturing Technology**

- Proposed that the subject Garment manufacturing technology currently offered in the 1V Semester Be shifted to the V Semester.

2. **Core Course -VII:25UFT5CC7- Fabric Structure and Design**

- Proposed that the subject Fabric Structure and Design Currently Offered in the V Semester Be shifted to the IV semester.

3. **Core Practical -VII:25UFT6CC7P- Fashion Portfolio**

- The Board Approved the Conversion of the Subject Fashion Portfolio from Theory paper to a Practical Paper.

**Resolved To Approve the Programme Structure of Semester I to semester VI of B.Sc. Fashion Technology & Costume Designing for 2025-2026 batch and onwards and recommend to the Academic Council, Cauvery College for Women (Autonomous), Trichy**

**RESOLUTION NO: BOS/25/01/03**

To consider and to approve the Course Outcomes (CO)s and syllabus of the courses in Semester - I course of B.Sc. Fashion Technology & Costume Designing for the year 2025-2026 and recommend to the Academic Council, Cauvery College for Women (Autonomous), Trichy

**I SEMESTER OF 2025-2026 BATCH AND ONWARDS**

1. **Core Course – I- 25UFT1CC1 – Introduction to Fashion Designing**

- Additional Topics have been incorporated into the subject introduction to fashion design on Unit IV Seasonal colours and Colour Selection Based on gender.

1. **Allied Course – I- 25UFT1AC1 – Textile Science**

- Industry-relevant topics have been added to the Textile Science Unite-1 to enhance and align the curriculum with current industrial trends.

**Resolved To Approve the Syllabus of Semester I B.Sc. Fashion Technology & Costume Designing for 2025-2026 batch and onwards and recommend to the Academic Council, Cauvery College for Women (Autonomous), Trichy**

- **Other Matters Discussed:**
- The committee discussed additional matters related to faculty.
- It was suggested that the next Board of Studies meeting be conducted in offline mode to facilitate more effective discussion and participation.
- Suggested Including the latest editions of textbooks and reference Materials to Ensure updated academic content.

The HOD expressed her deep sense of gratitude and thanked all members of Board of Studies of Fashion Technology & Costume Designing.

(HOD & Chairman of BOS)

# CAUVERY COLLEGE FOR WOMEN(AUTONOMOUS)

**Nationally Accredited with 'A+' Grade by NAAC TIRUCHIRAPPALLI**

## DEPARTMENT OF FASHION TECHNOLOGY & COSTUME DESIGNING

# B.SC. FASHION TECHNOLOGY &

# COSTUME DESIGNING

## 2025 -2026 and Onwards

**CAUVERY COLLEGE FOR WOMEN (AUTONOMOUS)**

**DEPARTMENT OF FASHION TECHNOLOGY & COSTUME DESIGNING**

## VISION

To create on Ambience for a quality academic erudition which drives technologically adept, innovative and globally competent graduates with ethical values.

## MISSION

- To have a breadth of knowledge across the subject areas of fashion technology and costume designing.
- To professionally enrich the students for successful career in Academia, Industry and Research.
- To promote and inculcate self-reliance, social relevance, sound value system and code of professional practice among students.

## PROGRAMME EDUCATIONAL OBJECTIVES (PEOs)

| PEOs | Statements |
|---|---|
| PEO1 | **LEARNING ENVIRONMENT**<br>To facilitate value-based holistic and comprehensive learning by integrating innovative learning practices to match the highest quality standards and train the students to be effective leaders in their chosen fields. |
| PEO2 | **ACADEMIC EXCELLENCE**<br>To provide a conducive environment to unleash their hidden talents and to nurture the spirit of critical thinking and encourage them to achieve their goal. |
| PEO3 | **EMPLOYABILITY**<br>To equip students with the required skills in order to adapt to the changing global scenario and gain access to versatile career opportunities in multidisciplinary domains. |
| PEO4 | **PROFESSIONAL ETHICS AND SOCIAL RESPONSIBILITY**<br>To develop a sense of social responsibility by formulating ethics and equity to transform students into committed professionals with a strong attitude towards the development of the nation. |
| PEO5 | **GREEN SUSTAINABILITY**<br>To understand the impact of professional solutions in societal and environmental contexts and demonstrate the knowledge for an overall sustainable development. |

## PROGRAMME OUTCOMES FOR B.Sc. FASHION TECHNOLOGY & COSTUME DESIGNING

| PO NO | **On completion of B.Sc., Fashion technology and costume designing Programme, the students will be able to** |
|---|---|
| **PO 1** | Academic Excellence and Competence: Elicit firm fundamental knowledge in theory as well as practical for coherent understanding of academic field to pursue multi and interdisciplinary science careers in the future. |
| **PO 2** | Holistic and Social approach: Create novel ideas related to the scientific research concepts through advanced technology and sensitivity towards sustainable environmental practices as well as social issues. |
| **PO 3** | Professional ethics and Teamwork: Explore professional responsibility through projects, internships, field trips/industrial visits and mentorship programmed to transmit communication skills. |
| **PO 4** | Critical and Scientific thinking: Equip training skills in Internships, Research Projects to do higher studies in multidisciplinary paths with a higher level of specialization to become professionals of high - quality standards. |
| **PO 5** | Social Responsibility with ethical values: Ensure ethical, social and holistic values in the minds of learners and attain gender parity for building a healthy nation. |

## PROGRAMME SPECIFIC OUTCOMES FOR B.Sc. FASHION TECHNOLOGY & COSTUME DESIGNING

| PSO NO. | The students of B.Sc. Fashion Technology & Costume Designing will be able to | POs Addressed |
|---|---|---|
| PSO 1 | Graduate Will Be Able to Conceptualize, Design and Construct a Variety of Garments Using Draping and Sewing Techniques Tailored to Diverse Client and Market Needs. | PO1 |
| PSO 2 | Plan and Execute Apparel Production and Manufacturing Process, From Sourcing Raw Materials to Garment Finishing, Including Quality Control. | PO2, PO3 |
| PSO 3 | Develop Professional Portfolios That Effectively Showcase Creative and Technical Skills and Present Design Concepts Confidently to Clients, Employers or In Academic Forums. | PO4, PO3 |
| PSO 4 | Develop and Understanding of Sustainable Practices in The Fashion Industry, Including Eco-friendly Materials, Ethical Sourcing and Responsible Production Process. | PO2, PO5 |
| PSO 5 | Gain Proficiency in Pattern Making, Drafting and Garment Construction Techniques, Including Both Traditional and Digital Methods. | PO1, PO3 |

CAUVERY COLLEGE FOR WOMEN (AUTONOMOUS)

DEPARTMENT OF FASHION TECHNOLOGY AND COSTUME DESIGNING

LEARNING OUTCOME BASED CURRICULUM FRAMEWORK (CBCS - LOCF)

(For the Candidates admitted from the Academic year 2025-2026 and onwards)

| Semester | Part | Course | Course Title | Course Code | Inst. Hrs. /WEEK | Credits | Exam | | | Total |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | Hrs. | Marks | | |
| | | | | | | | | Int | Ext | |
| I | I | Language Course-I (LC) | தமிழ் இலக்கிய வரலாறு-I | 25ULT1 | 6 | 3 | 3 | 25 | 75 | 100 |
| | | | Hindi ka Samanya Gyanaur Nibandh | 23ULH1 | | | | | | |
| | | | Poetry, Grammar and History of Sanskrit Literature | 23ULS1 | | | | | | |
| | | | Foundation Course: Paper I - French I | 23ULF1 | | | | | | |
| | II | English Language Course-I(ELC) | General English -I | 23UE1 | 6 | 3 | 3 | 25 | 75 | 100 |
| | III | Core Course – I(CC) | Introduction To Fashion Designing | 25UFT1CC1 | 5 | 5 | 3 | 25 | 75 | 100 |
| | | Core Practical - I (CP) | Fashion Illustration - Practical | 25UFT1CC1P | 3 | 3 | 3 | 40 | 60 | 100 |
| | | First Allied Course- I (AC) | Textile Science | 25UFT1AC1 | 4 | 3 | 3 | 25 | 75 | 100 |
| | | First Allied Course- II (AP) | Fashion Designing – Practical- I | 25UFT1AC2P | 4 | 3 | 3 | 40 | 60 | 100 |
| | IV | Ability Enhancement Compulsory Course-I (AECC) | Universal human values | 25UGVE | 2 | 2 | - | 100 | - | 100 |
| | | | **Total** | | **30** | **22** | | | | **700** |
| II | I | Language Course-II(LC) | பொதுத்தமிழ்– II | 23ULT2 | 6 | 3 | 3 | 25 | 75 | 100 |
| | | | Hindi Literature & Grammar - II | 22ULH2 | | | | | | |
| | | | Prose, Grammar and History of Sanskrit Literature | 23ULS2 | | | | | | |
| | | | Basic French - II 22ULF2 | 22ULF2 | | | | | | |
| | II | English Language Course-II(ELC) | General English- II | 23UE2 | 6 | 3 | 3 | 25 | 75 | 100 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | III | Core Course – II (CC) | Fashion clothing and Psychology | 25UFT2CC2 | 5 | 5 | 3 | 25 | 75 | 100 |
| | | Core Practical - II (CP) | Sewing Techniques - Practical | 25UFT2CC2P | 4 | 3 | 3 | 40 | 60 | 100 |
| | | Core Practical -III(CP) | Pattern Making Techniques-Practical | 25UFT2CC3P | 2 | 2 | 3 | 40 | 60 | 100 |
| | | First Allied Course – III (AP) | Surface Embllishment - Practical | 25UFT2AC3P | 3 | 3 | 3 | 40 | 60 | 100 |
| | IV | Ability Enhancement Compulsory Course-II (AECC) | Environmental Studies | 22UGEVS | 2 | 2 | - | 100 | - | 100 |
| | | Ability Enhancement Compulsory Course-III (AECC) | Innovation and Entrepreneurship | 22UGIE | 2 | 1 | - | 100 | - | 100 |
| | | Extra Credit Course | SWAYAM | | As per UGC Recommendation | | | | | |
| | **Total** | | | | **30** | **22** | | | | **800** |
| III | I | Language Course-III (LC) | பொதுத்தமிழ் – III | 23ULT3 | 6 | 3 | 3 | 25 | 75 | 100 |
| | | | Hindi Literature & Grammar - III | 22ULH3 | | | | | | |
| | | | Drama, Grammar and History of Sanskrit Literature | 23ULS3 | | | | | | |
| | | | Intermediate French - I | 22ULF3 | | | | | | |
| | II | English Language Course-III(ELC) | Learning Grammar Through Literature- I | 23UE3 | 6 | 3 | 3 | 25 | 75 | 100 |
| | III | Core Course– III(CC) | Wet processing | 25UFT3CC3 | 5 | 5 | 3 | 25 | 75 | 100 |
| | | Core Practical - IV(CP) | Wet Processing - Practical | 25UFT3CC4P | 3 | 3 | 3 | 40 | 60 | 100 |
| | | Second Allied Course-I (AC) | Indian Textile and Embroidery | 25UFT3AC4 | 4 | 3 | 3 | 25 | 75 | 100 |
| | | Second Allied Course – II (AP) | Draping -Practical | 25UFT3AC5P | 4 | 3 | 3 | 40 | 60 | 100 |
| | IV | Ability Enhancement Compulsory Course-IV (AECC) | Health And Wellness | 24UGHW | 2* | 1 | | 100 | - | 100 |
| | | Generic Elective Course- I (GEC) | Hand Embroidery - Practical | 25UFT3GEC1P | 2 | 2 | 3 | 40 | 60 | 100 |
| | | | Basic Tamil – I | 22ULC3BT1 | | | | 25 | 75 | |
| | | | Special Tamil – I | 22ULC3ST1 | | | | | | |
| | | | Introduction to NCC | 24UNC3GEC1 | | | | | | |
| | | Extra Credit Course | SWAYAM | | As per UGC Recommendation | | | | | |
| | | **Total** | | | **30** | **23** | | | | **800** |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| IV | I | Language Course - IV (LC) | பொதுத்தமிழ் - IV | 23ULT4 | 6 | 3 | 3 | 25 | 75 | 100 |
| | | | Hindi Literature & Functional Hindi | 22ULH4 | | | | | | |
| | | | Alankara, Didactic and Modern Literatures and Translation | 23ULS4 | | | | | | |
| | | | Intermediate French - II | 22ULF4 | | | | | | |
| | II | English Language Course – IV (ELC) | Learning Grammar Through Literature- II | 23UE4 | 6 | 3 | 3 | 25 | 75 | 100 |
| | III | Core Course – IV(CC) | **Fabric Structure and Design** | 25UFT4CC4 | 6 | 5 | 3 | 25 | 75 | 100 |
| | | Core Practical - V(CP) | Children's Garment - Practical | 25UFT4CC5P | 4 | 3 | 3 | 40 | 60 | 100 |
| | | Second Allied Course- III (AP) | Computer Aided Designing - Practical | 25UFT4AC6P | 4 | 3 | 3 | 40 | 60 | 100 |
| | IV | Generic Elective Course- II (GEC) @ | Accessory Making – Practical | 25UFT4GEC2P | 2 | 2 | 3 | 40 | 60 | 100 |
| | | | Basic Tamil – II | 22ULC4BT2 | | | | 25 | 75 | |
| | | | Special Tamil - II | 22ULC4ST2 | | | | | | |
| | | | Specialization in Army | | | | | | | |
| | | Skill Enhancement Course – I (SEC) | Painting Techniques -Practical | 25UFT4SEC1P | 2 | 2 | 3 | 40 | 60 | 100 |
| | | **Total** | | | **30** | **21** | | | | **700** |
| | | **30 Days INTERNSHIP during Semester Holidays** | | | | | | | | |
| V | III | Core Course – V(CC) | Boutique Management | 25UFT5CC5 | 6 | 5 | 3 | 25 | 75 | 100 |
| | | Core Course – VI(CC) | Textile Testing | 25UFT5CC6 | 6 | 5 | 3 | 40 | 60 | 100 |
| | | Core Course - VII(CC) | **Garment Manufacturing Technology** | 25UFT5CC7 | 5 | 5 | 3 | 25 | 75 | 100 |
| | | Core Practical – VI(CP) | Textile Testing-Practical | 25UFT5CC6P | 4 | 3 | 3 | 40 | 60 | 100 |
| | | Internship | Internship | 25UFT5INT | - | 2 | - | - | - | 100 |
| | | Discipline Specific Elective – I (DSE) | A. Fashion Merchandising and Marketing | 25UFT5DSE1A | 5 | 3 | 3 | 25 | 75 | 100 |
| | | | B. Export Documentation | 25UFT5DSE1B | | | | | | |
| | | | C. Visual Merchandising | 25UFT5DSE1C | | | | | | |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | IV | Ability Enhancement Compulsory Course-V(AECC) | UGC Jeevan Kaushal -Professional Skills | 22UGPS | 2 | 2 | - | 100 | - | 100 |
| | | Skill Enhancement Course – II (SEC) | Entrepreneurship development | 25UFT5SEC2 | 2 | 2 | 3 | 40 | 60 | 100 |
| | **Total** | | | | **30** | **27** | | | | **800** |
| VI | III | Core Course – VIII(CC) | **Home Textile** | 25UFT6CC8 | 6 | 5 | 3 | 40 | 60 | 100 |
| | | Core Course – IX(CC) | Quality And Cost Control | 25UFT6CC9 | 6 | 5 | 3 | 25 | 75 | 100 |
| | | • Core course-X(CC) | Cyber Security | 25UFT6CC10 | 5 | 4 | 3 | 25 | 75 | 100 |
| | | Core Practical – VII(CP) | Fashion Portfolio & Adult garment - Practical | 25UFT6CC7P | 3 | 3 | 3 | 40 | 60 | 100 |
| | | Discipline Specific Elective – II (DSE) | A. Fabric Care | 25UFT6DSE2A | 5 | 3 | 3 | 25 | 75 | 100 |
| | | | B. Apparel Costing | 25UFT6DSE2B | | | | | | |
| | | | C. Fashion Photography | 25UFT6DSE2C | | | | | | |
| | | Project | Project Work | 25UFT6PW | 4 | 3 | - | - | 100 | 100 |
| | IV | Ability Enhancement Compulsory Course-VI(AECC) | Gender Studies | 22UGGS | 1 | 1 | - | 100 | - | 100 |
| | | Extension activity | | 22UGEA | - | 1 | - | - | - | - |
| | **Total** | | | | **30** | **25** | | | | **700** |
| | **Grand Total** | | | | **180** | **140** | | | | **4500** |

| SEMESTER: I | INTERNAL MARK: 25 | | EXTERNAL MARK: 75 | |
|---|---|---|---|---|
| COURSE CODE | COURSE TITLE | CATEGORY | HOURS / WEEK | CREDITS |
| 25UFT1CC1 | INTRODUCTION TO FASHION DESIGNING | CC | 5 | 5 |

**COURSE OBJECTIVES**

- Explain basic knowledge about fashion concepts and fashion cycles.
- Identify colour theories to create fashion garments.
- Understand about the scope and career opportunities in fashion industry.

**COURSE OUTCOMES AND COGNITIVE LEVEL**

| CO Number | Course Outcome | Cognitive Level |
|---|---|---|
| CO1 | Defining the basic concepts of designs and identify the terms related to fashion design. | K1 |
| CO2 | Understanding on elements and principles of design. | K2 |
| CO3 | Implementing technical details to produce accurate technical. | K3 |
| CO4 | Mind mapping effectively in design terms and manage time, resources, and project tasks within deadlines. | K4 |
| CO5 | Arguing recent fashion trend. | K5 |

**SYLLABUS**

| UNIT | CONTENT | HOURS | COs | COGNITIVE LEVEL |
|---|---|---|---|---|
| I | **FASHION DESIGNING CONCEPTS:** Meaning of Fashion, Origin of Fashion, Meaning of Fashion Designing, Classification of Fashion, Influence of Fashion; Present Structure of Fashion Industry. | 12 | CO1<br>CO2 | K1<br>K2 |
| II | **THEORIES OF FASHION & FASHION TERMINAOLOGY:** Elements of Fashion process: Fashion origin, evolution- with examples from different eras till French revolution, Fashion cycles, Fashion theories and terminologies. | 12 | CO1<br>CO3<br>CO5 | K1<br>K3<br>K5 |

| | | | | |
|---|---|---|---|---|
| III | **ELEMENTS OF ART AND PRINCIPLES OF DESIGN:** Design – Definition & its types -Structural design, decorative design, basic silhouette. Elements of Design (point, line, form, shape, space, size, texture and colour), Principles of Design – (harmony, proportion, balance, rhythm and emphasis) Application of principle of design in dress. | 12 | CO1<br>CO2<br>CO3<br>CO4<br>CO5 | K1<br>K2<br>K3<br>K4<br>K5 |
| IV | **COLOUR**: Introduction to colour, colour wheel (Prang &Munsell system) Properties and qualities of colour, colour scheme Theories of colour harmony, **colour and garment (women, men and children)**, colour selection **(Seasonal Colours)**. Principles & Procedure of combining colour. | 12 | CO1<br>CO2 | K1<br>K2 |
| V | **CAREER IN FASHION**: Scope of Fashion business, choosing a career in Fashion, Career in Manufacturing, Designing, Career in Retailing, Fashion Modelling, Residential Buying office careers, Career in Fashion service organizations, Freelancing. | 12 | CO1<br>CO3<br>CO4<br>CO5 | K1<br>K3<br>K4<br>K5 |
| VI | **Self-Study for Enrichment**<br>**(Not included for End Semester Examinations)**<br>Fashion fundamentals (colour theory) and keep up with current fashion trends. Fashion terminology different eras till French revolution. Fashion career in modelling, designing, freelancing. | - | CO1<br>CO2<br>CO3<br>CO4<br>CO5 | K1<br>K2<br>K3<br>K4<br>K5 |

**TEXT BOOKS:**


1. Aita Tyagi, (2012), —History of fashion design, First Edition, Sonali publication 2012.
2. Anmol Roy, (2011), —Fashion Designing and technology, First Edition, Sonali publication 2011.
3. Pushpanjali, (2022), —Elements of Fashion and textile design, Pratham publication 2022.
4. Anita Tyagi, (2015), —Hand book of fashion technology, Sonali publication 2015.


**REFERENCES:**


1. Bride M Whelan, " Colour Harmony'" Rockford Publishers, 1992.
2. Chijiwa, Hideaki, "Colour Harmony", Rock fort Publishers, USA, 10111 edition I 1992.
3. Suzanne G. Marshall, Hazel O. Jackson M. Sue Stanley, Mary Kefgen, Individuality in Clothing Selection and Personal Appearance, Phullis Touchie Spent, New Jersey, 2000
4. V.D. Dudeja, Professional Management of Fashion Industry, Gagandeep Publications, New Delhi, 2005.

5. Kitty G. Dickerson, Inside the Fashion Business, Pearson Education, Singapore, 2003.
6. Kathryn Mokelvey, Janine Munslow, Fashion Design Process, Innovation and Practice, Black Well Science Ltd, U.K, 2005.
7. Elements of fashion and apparel design G.J. Sumathi
8. Elements of fashion and apparel design Sumathi 81-224-1371-4
9. FASHION: Elements and Principles of Design by Miss. Sacco (prezi.com).

**WEB REFERENCE:**

1. https://epgp.inflibnet.ac.in/Home/ViewSubject?catid=8x0nJkh/R0vHkX1U70Z/CQ
2. https://www.masterclass.com/articles/elements-of-design-explained
3. https://www.toptal.com/designers/ui/principles-of-design
4. https://99designs.com/blog/tips/the-7-step-guide-to-understanding-color-theory/
5. https://www.masterclass.com/articles/fashion-cycle-explained

**PEDAGOGY**

Chalk & Talk, Power Point Presentation, Discussion, Assignment, Quiz and Seminar.

**COURSE DESIGNER**

C. Jenitta, Assistant Professor, Department of Fashion Technology and Costume Designing, Cauvery College for Women (Autonomous).

| SEMESTER: I | INTERNAL MARK: 40 | | EXTERNAL MARK: 60 | |
|---|---|---|---|---|
| **COURSE CODE** | **COURSE TITLE** | **CATEGORY** | **HOURS / WEEK** | **CREDITS** |
| **25UFT1CC1P** | **FASHION ILLUSTRATION - PRACTICAL** | **CP** | **3** | **3** |

**COURSE OBJECTIVES**

- Understand about human anatomy.
- Acquire skills in delineating human body sketching.
- Illustrate Croque and add dresses with suitable accessories

**COURSE OUTCOMES AND COGNITIVE LEVEL**

| CO Number | Course Outcome | Cognitive Level |
|---|---|---|
| **CO1** | Selecting design ideas effectively through visual storytelling and illustrative techniques. | K1 |
| **CO2** | Render different types of garments (tops, skirts, pants, dresses) with clarity and precision on fashion figures. | K2 |
| **CO3** | Apply shading, textures, and colour rendering techniques using various media (pencil, markers). | K3 |
| **CO4** | Illustrate fashion figures using accurate human anatomy and proportion guidelines (8-head and 10-head croquis). | K4 |
| **CO5** | Create consistency, neatness, and originality in practical assignments and assessments. | K5 |

## SYLLABUS

| UNIT | CONTENT | HOURS | COs | COGNITIVE LEVEL |
|---|---|---|---|---|
| I | **INTRODUCTION TO FASHION ILLUSTRATION:**<br>1. Free Hand Drawing<br>2. Basics of Shading. | 12 | CO3<br>CO4<br>CO5 | K3<br>K4<br>K5 |
| II | **FASHION FIGURE DRAWING:**<br>1. 8 Head theory<br>2. 10 Head Theory<br>3. 12 Head Theory.<br>4. Different poses of Fashion Figure (Women, Men and Children). | 12 | CO1<br>CO4<br>CO5 | K1<br>K4<br>K5 |
| III | **FACIAL FEATURE:**<br>1. Drawing eyes, nose, ears, lips face, and hair styles.<br>2. Sketching of different angles of foot. | 12 | CO1<br>CO2<br>CO3<br>CO4<br>CO5 | K1<br>K2<br>K3<br>K4<br>K5 |
| IV | **SKETCHING ON BASIC CROQUI:**<br>1. Necklines, Collars, Sleeves and Cuffs.<br>2. Children's Wear.<br>3. Women's Wear.<br>4. Men's Wear. | 12 | CO1<br>CO2<br>CO3<br>CO4<br>CO5 | K1<br>K2<br>K3<br>K4<br>K5 |
| V | **SKETCHING OF FASHION ACCESSORIES:**<br>1. Bags, Foot wear, Hats and Ties.<br>2. Jewelleries- Traditional, Modern and Antique. | 12 | CO1<br>CO2<br>CO3<br>CO4<br>CO5 | K1<br>K2<br>K3<br>K4<br>K5 |
| | **Self-Study for Enrichment**<br>**(Not included for End Semester Examinations)**<br>Colour Mixing: Practice mixing primary colours to create secondary and tertiary colours. Experiment with adding white (tints), black (shades), and Gray (tones).<br>Value Studies: Create grayscale images or studies to understand how value differences create form and depth. | | CO1<br>CO2<br>CO3<br>CO4<br>CO5 | K1<br>K2<br>K3<br>K4<br>K5 |

| | | | | |
|---|---|---|---|---|
| | Colour Harmony Exploration: Experiment with different colour combinations based on colour theory principles and observe their effects.<br><br>Observation: Pay close attention to how colours are used in your environment, in art, design, and photography, noting colour palettes, harmonies, and temperature.<br><br>Colour Analysis: Explore the concept of colour analysis (seasonal colour analysis) to understand how colours can be used to enhance personal appearance. | | | |

**TEXT BOOK:**

1. Tatham Seamas, "fashion design drawing course" 978-0-7641-2473-0

**REFERENCES:**


1. Alfred D. Dorkenzio (2001), Fashion Sketching: Drawing the Fashion Figure, Thomas Learning Custom Publishing.
2. Bina Abling (2001), Fashion Rendering with Colours, Prentice Hall, New Jersey.
3. Tatham Seamas, "fashion design drawing course" 978-0-7641-2473-0
4. Fashion Drawing – The Basic Principles, Anne Allen and Julian Seaman, Anova Books.
5. Fashion illustration and Presentation, Manmeet Sodhia, Kalyani Publishers.
6. Fashion Source Book, Kathryn Mckelvey, Blackwell Science
7. Ritu Beri, Fashion Illustration and Rendering (2005), B. Jain Publishers (P) Ltd., New Delhi.
8. Snap Fashion Sketch Book, Bill Glazer, Prentice Hall; 2 edition (2007)
9. Fashion Illustration, Anna Kiper, David & Charles Book, 2011


**WEB REFERENCE:**

1. https://www.udemy.com/learn-to-draw-fashion-with-adobe-illustrator-cc-beginners/?siteID=SAyYsTvLiGQ-uausPN8UukNxyGp.f1egTA&LSNPUBID=SAyYsTvLiGQ

**PEDAGOGY**

Chalk & Talk, Discussion, Assignment, power point presentation, Mini projects.

**COURSE DESIGNER**


**C.** Jenitta, Assistant Professor, Department of Fashion Technology and Costume Designing, Cauvery College for Women (Autonomous).

| SEMESTER: I | INTERNAL MARK: 25 | | EXTERNAL MARK: 75 | |
|---|---|---|---|---|
| **COURSE CODE** | **COURSE TITLE** | **CATEGORY** | **HOURS / WEEK** | **CREDITS** |
| **25UFT1AC1** | **TEXTILE SCIENCE** | **AC** | **4** | **3** |

**COURSE OBJECTIVES**

- Study the natural, manmade fibres and their properties.
- Gain knowledge in yarn manufacturing
- Teach different types of fabric weaving methods.

**COURSE OUTCOMES AND COGNITIVE LEVEL**

| CO Number | Course Outcome | Cognitive Level |
|---|---|---|
| **CO1** | Identify and classify various natural and synthetic textile fibres based on their physical and chemical properties. | K1 |
| **CO2** | Explain the basic structure, properties, and manufacturing processes of fibres, yarns, and fabrics. | K2 |
| **CO3** | Analyse fibre behaviour under different mechanical, thermal, and chemical conditions. | K3 |
| **CO4** | Describe the principles of fabric construction methods, including weaving, knitting, non-wovens, and felting. | K4 |
| **CO5** | Solving basic textile testing procedures to assess fibre strength, fabric shrinkage, colourfastness, and durability. | K5 |

## SYLLABUS

| UNIT | CONTENT | HOURS | COs | COGNITIVE LEVEL |
|---|---|---|---|---|
| I | **Fiber** – Definition, Classification of Fiber. Introduction to Textile Fibers – Classification of Textile Fibers: Natural fibres – Cotton – Jute – Wool – Silk Fibers – **Bamboo and banana fibres** – Physical and Chemical Properties of Fibers – Uses of the above fibres. Man- Made fibre – Nylon fibre – Polyester fibre – Properties of fibres – Uses of the above fibres<br>**Yarn** –Types and characteristics of yarns – ply yarns, cable yarns, double yarns and novelty yarns and its types. | 12 | CO1<br>CO2<br>CO5 | K1<br>K2<br>K5 |
| II | **Yarn manufacturing**:<br>Conventional ring spinning method, Modern spinning methods – Passage of material through open end spinning, Friction spinning, Air jet spinning, Twist less spinning. Filament yarn spinning methods wet spinning, dry spinning, and melt spinning. | 12 | CO1<br>CO2<br>CO4<br>CO5 | K1<br>K2<br>K4<br>K5 |
| III | **Weaving:**<br>Preparation for weaving (warping, sizing, looming) Basic loom structure. Weaving- Definition, Primary motion – shedding – Definition and a brief explanation, picking, beating up. Secondary motion – Definition and Ancillary motion. Types of selvedge's. Construction of cloth designs - Design, draft and peg plan. Classification of weaves – plain weave, twill, Satin, sateen& Crepe, dobby (Climax) and Jacquard (single lift single cylinder) Identification of woven fabric defects. | 12 | CO1<br>CO2<br>CO3<br>CO4<br>CO5 | K1<br>K2<br>K3<br>K4<br>K5 |
| IV | **Knitting:**<br>Knitting – Definition, Comparison between woven fabrics and knitted fabric. Classification of knitted fabrics weft knitting – plain knit stitch, Rib stitch, Warp knitting - Tricot knit, Raschel Knit (Jacquard knit, pile knit, Terry knit, velour knit) Identification of knitted fabric defects. | 12 | CO1<br>CO2<br>CO3<br>CO4<br>CO5 | K1<br>K2<br>K3<br>K4<br>K5 |
| V | **Felted and non-woven fabrics:**<br>Felted fabrics – Felting process. Types of felt, properties and uses of felt. Non- woven – Definition, classification of non-woven fabrics, web forming techniques, bonding techniques, and finishing techniques. Characteristics of non-woven, uses of non-woven fabrics. | 12 | CO2<br>CO3<br>CO4<br>CO5 | K2<br>K3<br>K4<br>K5 |

| | | | | |
|---|---|---|---|---|
| VI | **Self-Study for Enrichment**<br><br>**(Not included for End Semester Examinations)**<br>• Types of fibres: natural vs. synthetic<br>• Fiber properties: strength, elasticity, moisture regain<br>• Yarn formation: spinning methods, yarn types<br>• Fabric construction: weaving, knitting, nonwovens<br>• Spinning and weaving techniques<br>• Sustainable and eco-friendly textile production | - | CO1<br>CO2<br>CO3<br>CO4<br>CO5 | K1<br>K2<br>K3<br>K4<br>K5 |

**TEXT BOOK:**


1. Meenakshi Rastogi (2009) fibres and yarn, Sonali Publications, New Delhi.


**REFERENCES:**


1. Corb man B.P Fiber to Fabric, International Students Edition Mc Graw Hill Book Co- Singapore, 2000.
2. Sara J. Radolph and Anna L. Lang Ford, Textiles, Prentice Hall, New York, 2002.
3. Murphy, W.S. (2001), Handbook of weaving, Abhishek publication, Chandigarh.
4. Gokerneshan. N (2009), Weaving Preparation Technology, Abishek Publications, Chandigarh.
5. E.P.G. Gohl, L.D. Velensky, "Textile Science" CBS Publishers and Distributors, 2003
6. Seemasekhri "Fabric science" 978-81-203-4183-8
7. Meenakshi Rastogi (2009) fibres and yarn, Sonali Publications, New Delhi,


**WEB REFERENCE:**

1. https://www.youtube.com/watch?v=PDuiSnBYCQc
2. https://www.youtube.com/watch?v=lGB50nBlAc0
3. https://www.textilesphere.com/2020/09/bamboo-fiber.html
4. https://ecosilky.com.vn/en/banana-fibre-uses-advantages-and-disadvantages/

**PEDAGOGY**

Chalk & Talk, Discussion, Assignment, Power point presentation.

**COURSE DESIGNER**


C. Jenitta, Assistant professor, Department of fashion technology and costume designing, Cauvery college for women (autonomous).

| SEMESTER: I | INTERNAL MARK: 40 | | EXTERNAL MARK: 60 | |
|---|---|---|---|---|
| **COURSE CODE** | **COURSE TITLE** | **CATEGORY** | **HOURS / WEEK** | **CREDITS** |
| **25UFT1AC2P** | **FASHION DESIGNING - PRACTICAL** | **AP** | **4** | **3** |

**COURSE OBJECTIVES**

- To know the structural and Decorative Designs.
- To Gain knowledge about the elements of arts and principles of design applied in different area.
- To design the garment for unusual figures.

**COURSE OUTCOMES AND COGNITIVE LEVEL MAPPING**

| CO Number | Course Outcome | Cognitive Level |
|---|---|---|
| **CO1** | Identifying the classification of colours. | K1 |
| **CO2** | Expressing basic colour theory, including Hue, saturation and value. | K2 |
| **CO3** | Sketching colour harmony in dress designing | K3 |
| **CO4** | Structuring Different types of dress designing for different poses. | K4 |
| **CO5** | Moderate the garment designing and principles of design. | K5 |

**SYLLABUS**

| UNIT | CONTENT | HOURS | COs | COGNITIVE LEVEL |
|---|---|---|---|---|
| I | TYPES OF DESIGN<br>• Structural design<br>• Decorative design | 12 | CO1<br>CO2<br>CO3<br>CO4<br>CO5 | K1<br>K2<br>K3<br>K4<br>K5 |
| II | PREPARE THE FOLLOWING CHARTS<br>• Prang colour chart<br>• Value chart<br>• Intensity chart | 12 | CO1<br>CO2<br>CO3<br>CO4<br>CO5 | K1<br>K2<br>K3<br>K4<br>K5 |
| III | ELEMENTS OF DESIGN<br>• Line<br>• Colours<br>• Texture<br>• Shape<br>• Size | 12 | CO1<br>CO2<br>CO3<br>CO4<br>CO5 | K1<br>K2<br>K3<br>K4<br>K5 |
| IV | PRINCIPLES OF DESIGN<br>• Balance<br>• Harmony<br>• Emphasis<br>• Proportion<br>• Rhythm | 12 | CO1<br>CO2<br>CO3<br>CO4<br>CO5 | K1<br>K2<br>K3<br>K4<br>K5 |
| V | COLOR HOEMONY IN DRESS DESIGN<br>• Monochromatic Colour Harmony<br>• Analogous colour Harmony<br>• Complimentary Colour Harmony<br>• Double Complimentary Colour Harmony<br>• Split Complimentary Colour Harmony<br>• Triad Colour Harmony | 12 | CO1<br>CO2<br>CO3<br>CO4<br>CO5 | K1<br>K2<br>K3<br>K4<br>K5 |

| | | | | |
|---|---|---|---|---|
| VI | Learn the core elements and principles of fashion design.<br>Elements of design: line, shape, form, texture, colour<br>• Principles of design: balance, contrast, rhythm, emphasis, harmony<br>• Fashion silhouettes and garment construction basics<br>• Design process: from concept to final sketch<br>The colour wheel: primary, secondary, tertiary colours<br>Colour harmony: complementary, analogous, triadic schemes Warm vs. cool tones, neutral palettes<br>Psychological and cultural meanings of colours in fashion | - | CO1<br>CO2<br>CO3<br>CO4<br>CO5 | K1<br>K2<br>K3<br>K4<br>K5 |

**TEXT BOOK:**


1. Tatham Seamas, "fashion design drawing course" 978-0-7641-2473-0
2. Pushpanjali, (2022), —Elements of Fashion and textile design, Pratham publication 2022.


**REFERENCES:**


1. Bride M Whelan, " Colour Harmony'" Rockford Publishers, 1992.
2. Chijiwa, Hideaki, "Colour Harmony", Rock fort Publishers, USA, 10111 edition I 1992.
3. Elements of fashion and apparel design G.J. Sumathi
4. FASHION: Elements and Principles of Design by Miss. Sacco (prezi.com).


**WEB REFERENCE:**

1. https://www.masterclass.com/articles/elements-of-design-explained
2. https://www.toptal.com/designers/ui/principles-of-design
3. https://www.masterclass.com/articles/fashion-cycle-explained

**PEDAGOGY**

Chalk & Talk, Discussion, Assignment.

**COURSE DESIGNER**


C. Jenitta, Assistant professor, Department of fashion technology and costume designing, Cauvery college for women (autonomous).

# ANNEXURE Q

# Annexure: Q

## Matters related to CoE

i. NAD

ii. Ratification in the conduct of Instant Examination

iii. Results

**i. NAD DETAILS (As on 22.07.2025)**

Total Marksheets Uploaded – 33239

APAAR ID Created – 4368

ABC Credit Data – 16134

ii. Ratification in the conduct of Instant Examination

**Cauvery College for Women (Autonomous), Trichy -620018.**

**Examination Committee Meeting – 10/05/2025**

**Minutes of the Meeting**

**Agenda**

Ratification in the Conduct of Instant Examination

**Resolution**

It is resolved to ratify the conduct of instant examination for **one arrear/absent paper, from the first to the final semester,** as followed by Bharathidasan University, for both Undergraduate (UG) and Postgraduate (PG) programs. This resolution is forwarded to the Controller of Examinations for implementation with effect from 10.05.2025 and further approval by the Academic Council.

Annexure:

A. Requisition Letter from the students

B. Copy of Cauvery College Autonomy Manual 2022, Page 80

C. Bharathidasan University Fee details indicating the conduct of instant examination

10/5/25

Principal I/C
Cauvery College For Women
(Autonomous)
Annamalai Nagar,
Tiruchirappalli - 620 018.
Tamilnadu.

**CAUVERY COLLEGE FOR WOMEN (AUTONOMOUS), TRICHY - 18**
**END SEMESTER EXAMINATION – APRIL 2025**
**RESULT ANALYSIS**
**I UG**

| S.NO. | DEPARTMENT | SEM | NUMBER REGISTERED | NUMBER APPEARED | NUMBER OF PASS | PASS |
|---|---|---|---|---|---|---|
| 1 | TAMIL | II | 19 | 19 | 19 | 100 |
| 2 | ENGLISH | II | 13 | 13 | 12 | 92.31 |
| 3 | BSW | II | 15 | 15 | 12 | 80 |
| 4 | BBA | II | 51 | 51 | 49 | 96.09 |
| 5 | B.COM | II | 135 | 135 | 131 | 97.04 |
| 6 | B.COM (CA) | II | 123 | 123 | 121 | 96.8 |
| 7 | MATHEMATICS | II | 10 | 10 | 10 | 100 |
| 8 | PHYSICS | II | 13 | 13 | 13 | 100 |
| 9 | CHEMISTRY | II | 13 | 13 | 12 | 93.31 |
| 10 | MICROBIOLOGY | II | 53 | 53 | 50 | 94.34 |
| 11 | BIOTECHNOLOGY | II | 56 | 56 | 55 | 98.21 |
| 12 | COMPUTER SCIENCE | II | 124 | 124 | 122 | 98.39 |
| 13 | COMPUTER APPLICATIONS | II | 96 | 96 | 95 | 98.96 |
| 14 | INFORMATION TECHNOLOGY | II | 53 | 53 | 52 | 98.11 |
| 15 | NUTRITION & DIETETICS | II | 27 | 27 | 24 | 88.89 |
| 16 | COGNITIVE SYSTEMS | II | 22 | 22 | 20 | 90.91 |

**CAUVERY COLLEGE FOR WOMEN (AUTONOMOUS), TRICHY - 18**
**END SEMESTER EXAMINATION – APRIL 2025**
**RESULT ANALYSIS**

**II UG**

| S.NO. | DEPARTMENT | SEM | NUMBER REGISTERED | NUMBER APPEARED | NUMBER OF PASS | PASS |
|---|---|---|---|---|---|---|
| 1 | TAMIL | IV | 17 | 17 | 17 | 100 |
| 2 | ENGLISH | IV | 29 | 29 | 29 | 100 |
| 3 | BSW | IV | 11 | 11 | 8 | 72.73 |
| 4 | BBA | IV | 46 | 45 | 41 | 91.11 |
| 5 | B.COM | IV | 178 | 178 | 175 | 98.31 |
| 6 | B.COM (CA) | IV | 61 | 61 | 57 | 93.44 |
| 7 | MATHEMATICS | IV | 18 | 18 | 18 | 100 |
| 8 | PHYSICS | IV | 14 | 14 | 14 | 100 |
| 9 | CHEMISTRY | IV | 18 | 18 | 18 | 100 |
| 10 | MICROBIOLOGY | IV | 70 | 70 | 69 | 98.57 |
| 11 | BIOTECHNOLOGY | IV | 67 | 67 | 65 | 97.01 |
| 12 | COMPUTER SCIENCE | IV | 133 | 132 | 130 | 98.48 |
| 13 | COMPUTER APPLICATIONS | IV | 88 | 88 | 87 | 98.86 |
| 14 | INFORMATION TECHNOLOGY | IV | 51 | 51 | 50 | 98.04 |
| 15 | NUTRITION & DIETETICS | IV | 28 | 28 | 28 | 100 |
| 16 | COGNITIVE SYSTEMS | IV | 52 | 52 | 52 | 100 |

**CAUVERY COLLEGE FOR WOMEN (AUTONOMOUS), TRICHY - 18**
**END SEMESTER EXAMINATION – APRIL 2025**
**RESULT ANALYSIS**

**III UG**

| S.NO. | DEPARTMENT | SEM | NUMBER REGISTERED | NUMBER APPEARED | NUMBER OF PASS | PASS % |
|---|---|---|---|---|---|---|
| 1 | TAMIL | VI | 25 | 25 | 25 | 100 |
| 2 | ENGLISH | VI | 30 | 30 | 28 | 93.33 |
| 3 | BSW | VI | 22 | 22 | 22 | 100 |
| 4 | BBA | VI | 63 | 63 | 63 | 100 |
| 5 | B.COM | VI | 242 | 242 | 242(236) | 100(97.52) |
| 6 | B.COM (CA) | VI | 67 | 67 | 67 | 100 |
| 7 | MATHEMATICS | VI | 25 | 25 | 25 | 100 |
| 8 | PHYSICS | VI | 30 | 30 | 29 | 96.67 |
| 9 | CHEMISTRY | VI | 35 | 35 | 35(34) | 100(97.14) |
| 10 | MICROBIOLOGY | VI | 66 | 66 | 66 | 100 |
| 11 | BIOTECHNOLOGY | VI | 65 | 65 | 65(64) | 100(98.46) |
| 12 | COMPUTER SCIENCE | VI | 147 | 147 | 147(145) | 100(98.64) |
| 13 | COMPUTER APPLICATIONS | VI | 93 | 93 | 93(91) | 100(97.85) |
| 14 | INFORMATION TECHNOLOGY | VI | 51 | 51 | 51 | 100 |
| 15 | NUTRITION & DIETETICS | VI | 34 | 34 | 34 | 100 |
| 16 | COGNITIVE SYSTEMS | VI | 34 | 34 | 34 | 100 |

**CAUVERY COLLEGE FOR WOMEN (AUTONOMOUS), TRICHY -18**
**END SEMESTER EXAMINATION RESULTS – APRIL 2025**
**RESULT ANALYSIS**

**I PG**

| S.NO. | DEPARTMENT | SEM | NUMBER REGISTERED | NUMBER APPEARED | NUMBER OF PASS | PASS % |
|---|---|---|---|---|---|---|
| 1 | TAMIL | I | 05 | 05 | 05 | 100 |
| 2 | ENGLISH | I | 09 | 09 | 09 | 100 |
| 3 | MSW | I | 04 | 04 | 03 | 75 |
| 4 | COMMERCE | I | 36 | 36 | 36 | 100 |
| 5 | MATHEMATICS | I | 11 | 11 | 11 | 100 |
| 6 | PHYSICS | I | 09 | 09 | 07 | 77.78 |
| 7 | CHEMISTRY | I | 18 | 17 | 17 | 100 |
| 8 | MICROBIOLOGY | I | 14 | 14 | 14 | 100 |
| 9 | COMPUTER SCIENCE | I | 30 | 30 | 27 | 90 |
| 10 | FSM & D | I | 26 | 26 | 26 | 100 |

**CAUVERY COLLEGE FOR WOMEN (AUTONOMOUS), TRICHY -18**
**END SEMESTER EXAMINATION RESULTS – APRIL 2025**
**RESULT ANALYSIS**

**II PG**

| S.NO. | DEPARTMENT | SEM | NUMBER REGISTERED | NUMBER APPEARED | NUMBER OF PASS | PASS % |
|---|---|---|---|---|---|---|
| 1 | TAMIL | IV | 15 | 15 | 15 | 100 |
| 2 | ENGLISH | IV | 23 | 23 | 23 | 100 |
| 3 | MSW | IV | 13 | 13 | 13 | 100 |
| 4 | COMMERCE | IV | 33 | 33 | 33(31) | 100(93.94) |
| 5 | MATHEMATICS | IV | 21 | 21 | 21 | 100 |
| 6 | PHYSICS | IV | 18 | 18 | 18 | 100 |
| 7 | CHEMISTRY | IV | 21 | 21 | 21(19) | 100(90.48) |
| 8 | MICROBIOLOGY | IV | 26 | 26 | 26 | 100 |
| 9 | COMPUTER SCIENCE | IV | 23 | 23 | 23 | 100 |
| 10 | FSM & D | IV | 26 | 26 | 26(25) | 100(96.15) |