# B COM COMPUTER APPLICATIONS

## LOCF SYLLABUS 2025



## Department of Commerce Computer Applications

School of Management Studies

St. Joseph's College (Autonomous)

Tiruchirappalli - 620002, Tamil Nadu, India

**SCHOOLS OF EXCELLENCE WITH CHOICE BASED CREDIT SYSTEM (CBCS) UNDERGRADUATE COURSES**

St. Joseph's College (Autonomous), an esteemed institution in the realm of higher education in India, has embarked on a journey to uphold and perpetuate academic excellence. One of the pivotal initiatives in this pursuit is the establishment of five Schools of Excellence commencing from the academic year 2014-15. These schools are strategically designed to confront and surpass the challenges posed by the 21st century.

Each School amalgamates correlated disciplines under a unified umbrella, fostering synergy and coherence. This integrated approach fosters the optimal utilization of both human expertise and infrastructural assets. Moreover, it facilitates academic fluidity and augments employability by nurturing a dynamic environment conducive to learning and innovation. Importantly, while promoting collaboration and interdisciplinary study, the Schools of Excellence also uphold the individual identity, autonomy, and distinctiveness of every department within.

The overarching objectives of these five schools are as follows:

1. Optimal Resource Utilization: Ensuring the efficient use of both human and material resources to foster academic flexibility and attain excellence across disciplines.

2. Horizontal Mobility for Students: Providing students with the freedom to choose courses aligning with their interests and facilitating credit transfers, thereby enhancing their academic mobility and enriching their learning experience.

3. Credit-Transfer Across Disciplines (CTAD): The existing curricular structure, in accordance with regulations from entities such as TANSCHE and other higher educational institutions, facilitates seamless credit transfers across diverse disciplines. This underscores the adaptability and uniqueness of the choice-based credit system.

4. Promotion of Human Excellence: Nurturing excellence in specialized areas through focused attention and resources, thus empowering individuals to excel in their respective fields.

5. Emphasis on Internships and Projects: Encouraging students to engage in internships and projects, serving as stepping stones toward research endeavors, thereby fostering a culture of inquiry and innovation.

6. Addressing Stakeholder Needs: The multi-disciplinary nature of the School System is tailored to meet the requirements of various stakeholders, particularly employers, by equipping students with versatile skills and competencies essential for success in the contemporary professional landscape.

In essence, the Schools of Excellence at St. Joseph's College (Autonomous) epitomize a holistic approach towards education, aiming not only to impart knowledge but also to cultivate critical thinking, creativity, and adaptability – qualities indispensable for thriving in the dynamic global arena of the 21st century.

**Credit system**

The credit system at St. Joseph's College (Autonomous) assigns weightage to courses based on the hours allocated to each course. Typically, one credit is equivalent to one hour of instruction per week. However, credits are awarded regardless of actual teaching hours to ensure consistency and adherence to guidelines.

The credits and hours allotted to each course within a programme are detailed in the Programme Pattern table. While the table provides a framework, there may be some flexibility due to practical sessions, field visits, tutorials, and the nature of project work.

For undergraduate (UG) courses, students are required to accumulate a minimum of 137 credits, as stipulated in the programme pattern table. The total number of courses offered by the department is outlined in the Programme Structure.

## OUTCOME-BASED EDUCATION (OBE)

OBE is an educational approach that revolves around clearly defined goals or outcomes for every aspect of the educational system. The primary aim is for each student to successfully achieve these predetermined outcomes by the culmination of their educational journey. Unlike traditional methods, OBE does not prescribe a singular teaching style or assessment format. Instead, classes, activities, and evaluations are structured to support students in attaining the specified outcomes effectively.

In OBE, the emphasis lies on measurable outcomes, allowing educational institutions to establish their own set of objectives tailored to their unique context and priorities. The overarching objective of OBE is to establish a direct link between education and employability, ensuring that students acquire the necessary skills and competencies sought after by employers.

OBE fosters a student-centric approach to teaching and learning, where the delivery of courses and assessments are meticulously planned to align with the predetermined objectives and outcomes. It places significant emphasis on evaluating student performance at various levels to gauge their progress and proficiency in meeting the desired outcomes.

Here are some key aspects of Outcome-Based Education:

*Course:* A course refers to a theory, practical, or a combination of both that is done within a semester.

*Course Outcomes (COs):* These are statements that delineate the significant and essential learning outcomes that learners should have achieved and can reliably demonstrate by the conclusion of a course. Typically, three or more course outcomes are specified for each course, depending on its importance.

*Programme:* This term pertains to the specialization or discipline of a degree programme.

*Programme Outcomes (POs):* POs are statements that articulate what students are expected to be capable of by the time they graduate. These outcomes are closely aligned with Graduate Attributes.

*Programme Specific Outcomes (PSOs):* PSOs outline the specific skills and abilities that students should possess upon graduation within a particular discipline or specialization.

*Programme Educational Objectives (PEOs):* PEOs encapsulate the expected accomplishments of graduates in their careers, particularly highlighting what they are expected to achieve and perform during the initial years postgraduation.

## LEARNING OUTCOME-BASED CURRICULUM FRAMEWORK (LOCF)

The Learning Outcomes-Centric Framework (LOCF) places the learning outcomes at the forefront of curriculum design and execution. It underscores the importance of ensuring that these outcomes are clear, measurable, and relevant. LOCF orchestrates teaching methodologies, evaluations, and activities in direct correlation with these outcomes. Furthermore, LOCF adopts a backward design approach, focusing on defining precise and attainable learning objectives. The goal is to create a cohesive framework where every educational element is in harmony with these outcomes.

Assessment practices within LOCF are intricately linked to the established learning objectives. Evaluations are crafted to gauge students' achievement of these outcomes accurately. Emphasis is often placed on employing authentic assessment methods, allowing students to showcase their learning in real-life scenarios. Additionally, LOCF frameworks emphasize flexibility and adaptability, enabling educators to tailor curriculum and instructional approaches to suit the diverse needs of students while ensuring alignment with the defined learning outcomes.

## Some Important Terminologies

*Core Course (CC): Core Courses represent obligatory elements within an academic programme, imparting fundamental knowledge within the primary discipline while ensuring consistency and acknowledgment.*

*Allied Course (AC): Allied Courses complement primary disciplines by furnishing supplementary knowledge, enriching students' understanding and skill repertoire within their academic pursuit.*

**Skill Enhancement Course (SEC):** *Skill Enhancement Courses aim to nurture students' abilities and competencies through practical training, open to students across disciplines but particularly advantageous for those in programme-related fields.*

**Value Education (VE):** *Value education encompasses the teaching of moral, ethical, and social values to students, aiming to foster their holistic development. It instills virtues such as empathy, integrity, and responsibility, guiding students towards becoming morally upright and socially responsible members of society.*

**Ability Enhancement Compulsory Course (AECC):** *Ability Enhancement Compulsory Course is designed to enhance students' knowledge and skills; examples include Communicative English and Environmental Science. These courses are obligatory for all disciplines.*

*AE-1: Communicative English: This three-credit mandatory course, offered by the Department of English during the first semester of the degree programme, is conducted outside regular class hours.*

*AE-2: Environmental Science: This one-credit compulsory course, offered during the second semester by the Department of Human Excellence, emphasizes environmental awareness and stewardship.*

**Allied Optional (AO):** *Allied optional course are elective modules that complement the primary disciplines by providing additional knowledge and skills. These courses allow students to explore areas of interest outside their major field of study, broadening their understanding and enhancing their skill set.*

**Discipline Specific Elective (DSE):** *These courses offer the flexibility of selection of options from a pool of courses. These are considered specialized or advanced to that particular programme and provide extensive exposure in the area chosen; these are also more applied in nature. Four courses are offered, two courses each in semester V and VI*

*Note: To offer one DSE, a minimum of two courses of equal importance/weightage is a must. A department with two sections must offer two courses to the students.*

**Open Elective (OE):** *A course chosen from a different discipline or subject area, typically to gain exposure. Students pursuing specific disciplines must select Open Elective courses from the options available across departments as per the college's course offerings. The breadth of Open Elective (OE) Courses is directly linked to the diversity of disciplines offered by the college. Two OE Courses are available, one in each semester V and VI, and are open to students from other departments.*

**Self-Learning (SL):** *A two-credit course designed to foster students' ability for independent and self-directed learning. There are* Four Self-Learning Courses:
- *Compulsory MOOC on NPTEL-SWAYAM in Semester I or II*
- *'Artificial Intelligence' as a Self-Learning Course jointly offered by the Departments of CS, AI, IT and Data Science on JosTEL in Semester III*
- *A Department-Specific Self-Learning Course in Semester IV on JosTEL*
- *A Certificate Course in Semester V: Each department will offer ONE certificate Course (45 – 60 hours) that will be creditised in the curriculum.*

**Internship (IS):** *Following the fourth semester, students are required to undertake an internship during the summer break. Subsequently, they must submit a comprehensive report detailing their internship experience along with requisite documentation. Additionally, students are expected to participate in a viva-voce examination during the fifth semester. Credits for the internship will be reflected in the mark statement for the fifth semester. One of the Core Courses in Sem IV is offered as internship embedded course which contains content related to industry.*

**Experiential Learning (EL):** *In the sixth semester, students are required to undertake a one credit Project / Industrial visit / Field visit chosen by the department. This component is intended to foster learning by direct experience and application of acquired knowledge to practical settings.*

*Comprehensive Examination (CE):* *A detailed syllabus consisting of five units to be chosen from the courses offered over the five semesters which are of immense importance and those portions which could not be accommodated in the regular syllabus.*

*Extra Credit Courses:* *To support students in acquiring knowledge and skills through online platforms such as Massive Open Online Courses (MOOCs), additional credits are granted upon verification of course completion. These extra credits can be availed across five semesters (2 - 6). In line with UGC guidelines, students are encouraged to enhance their learning by enrolling in MOOCs offered by portals like SWAYAM, NPTEL, and others. Additionally, certificate courses provided by the college also qualify for these extra credits.*

*Outreach Programme (OR):* *It is a compulsory course to create a sense of social concern among all the students and to inspire them to dedicated service to the needy.*

## Course Coding
The following code system (11 alphanumeric characters) is adopted for Under Graduate courses:

| 25 | UXX | 0 | 0 | XX | 00/X |
|---|---|---|---|---|---|
| Year of Revision | UG Department Code | Semester Number | Part Specification | Course Specific Initials | Running Number/with Choice |

Course Specific Initials

*GL - Languages (Tamil / Hindi / French / Sanskrit)*

*GE - General English*

*CC - Core Theory; CP- Core Practical*

*AC - Allied Course*

*AP - Allied Practical*

*SEC - Skill Enhancement Course*

*VE - Value Education*

*WS - Workshop*

*AE - Ability Enhancement Course*

*AO - Allied Optional*

*OP - Allied Optional Practical*

*ES - Discipline Specific Elective*

*IS - Internship*

*SL - Self-Learning*

*OE - Open Elective*

*PW - Project and Viva Voce*

*CE - Comprehensive Examination*

*EL - Experiential Learning*

*OR - Outreach Programme*

## EVALUATION PATTERN (UG)
## Continuous Internal Assessment

| Sl No | Component | Marks Allotted |
|---|---|---|
| 1 | Mid Semester Test | 30 |
| 2 | End Semester Test | 30 |
| 3 | *Two Components (15 + 20) | 35 |
| 4 | Library Referencing | 5 |
| | **Total** | **100** |

*Passing minimum: 40 marks*

**Question Paper Blueprint for Mid and End Semester Tests**

| Duration: 2 Hours | | | | | | | | Maximum Marks: 60 |
|---|---|---|---|---|---|---|---|---|
| **Section** | | **K levels** | | | | | | **Marks** |
| | | **K1** | **K2** | **K3** | **K4** | **K5** | **K6** | |
| **A** *(compulsory)* | | 7 | | | | | | $7 \times 1 = 7$ |
| **B** *(compulsory)* | | | 5 | | | | | $5 \times 3 = 15$ |
| **C** *(either…or type)* | | | | 3 | | | | $3 \times 6 = 18$ |
| **D** *(2 out of 3)* | Mid Sem | | | | 1(2) | 1* | | $2 \times 10 = 20$ |
| | End Sem | | | | 1* | 1(2) | | |
| | | | | | | | **Total** | **60** |

**\*** *Compulsory*

**Question Paper Blueprint for Semester Examination**

| Duration: 3 Hours | | | | | | | Maximum Marks: 100 |
|---|---|---|---|---|---|---|---|
| **Section** | **K levels** | | | | | | **Marks** |
| | **K1** | **K2** | **K3** | **K4** | **K5** | **K6** | |
| **A** *(compulsory)* | 10 | | | | | | $10 \times 1 = 10$ |
| **B** *(compulsory)* | | 10 | | | | | $10 \times 3 = 30$ |
| **C** *(either…or type)* | | | 5 | | | | $5 \times 6 = 30$ |
| **D** *(3 out of 5)* | | | | 2(3) | 1(2) | | $3 \times 10 = 30$ |
| | | | | | | **Total** | **100** |

**\*** *Compulsory*

**Evaluation Pattern for Part IV and One/Two-credit Courses**

| Title of the Course | CIA | Semester Examination | Final |
|---|---|---|---|
| • One credit Core Course (Sem 1)<br>• Skill Enhancement Course (NCC and Department Specific) | 25 + 25 = 50 | 50 *(Department)* | 100 |
| • Self - Learning Course (Dept Specific)<br>• Comprehensive Examination | 25 + 25 = 50 | 50 *(CoE)* | 100 |
| • Value Education<br>• Environmental Studies | 50 | 50 *(CoE)* | 100 |
| • Skill Enhancement Course: Soft Skills<br>• Self - Learning Course (Common)<br>• Self - Learning Online Course (NPTEL / SWAYAM)<br>• Certificate Course<br>• Internship | 100 | - | 100 |
| • Project / Industrial Visit / Field Visit | 100 | - | 100 |

## Grading System

The marks obtained in the CIA and semester for each course will be graded as per the scheme provided in Table - 1.

From the second semester onwards, the total performance within a semester and the continuous performance starting from the first semester are indicated by Semester Grade Point Average (SGPA) and Cumulative Grade Point Average (CGPA), respectively. These two are calculated by the following formulae:

$$SGPA \ and \ CGPA = \frac{\sum_{i=1}^{n} C_i Gp_i}{\sum_{i=1}^{n} C_i}$$

$$WAM = \frac{\sum_{i=1}^{n} C_i M_i}{\sum_{i=1}^{n} C_i}$$

*Where,*

*$C_i$ - credit earned for the Course i*

*$Gp_i$ - Grade Point obtained for the Course i*

*$M_i$ - Marks obtained for the Course i*

*n - Number of Courses **passed** in that semester*

*WAM - Weighted Average Marks*

## Classification of Final Results

• For each of the first three parts in the UG Programme, there shall be separate classification on the basis of CGPA, as indicated in Table - 2.

• For the purpose of declaring a candidate to have qualified for the Degree of Bachelor of Arts / Science / Commerce / Management as Outstanding / Excellent / Very Good / Good / Above Average / Average, the marks and the corresponding CGPA earned by the candidate in Part III alone will be the criterion, provided the candidate has secured the prescribed passing minimum in all the five Parts of the programme.

• Grade in Part IV and Part V shall be shown separately and it shall not be taken into account for classification.

- A pass in SHEPHERD will continue to be mandatory although the marks will not be counted for the calculation of the CGPA.
- Absence from an examination shall not be considered as an attempt.

**Table - 1: Grading of the Courses**

| Mark Range | Grade Point | Corresponding Grade |
|---|---|---|
| 90 and above | 10 | O |
| 80 and above and below 90 | 9 | A+ |
| 70 and above and below 80 | 8 | A |
| 60 and above and below 70 | 7 | B+ |
| 50 and above and below 60 | 6 | B |
| 40 and above and below 50 | 5 | C |
| Below 40 | 0 | RA |

**Table - 2: Grading of the Final Performance**

| CGPA | Grade | Performance |
|---|---|---|
| 9.00 and above | O | Outstanding* |
| 8.00 to 8.99 | A+ | Excellent* |
| 7.00 to 7.99 | A | Very Good |
| 6.00 to 6.99 | B+ | Good |
| 5.00 to 5.99 | B | Above Average |
| 4.00 to 4.99 | C | Average |
| Below 4.00 | RA | Re-appear |

*The Candidates who have passed in the first appearance and within the prescribed duration of the UG programme are eligible. If the Candidates Grade is O/A+ with more than one attempt, the performance is considered "Very Good".*

## Vision

Forming globally competent, committed, compassionate and holistic persons, to be men and women for others, promoting a just society.

## Mission

- Fostering learning environment to students of diverse background, developing their inherent skills and competencies through reflection, creation of knowledge and service.

- Nurturing comprehensive learning and best practices through innovative and value- driven pedagogy.

- Contributing significantly to Higher Education through Teaching, Learning, Research and Extension.

## Programme Educational Objectives (PEOs)

• Graduates will be able to accomplish professional standards in the global environment.

• Graduates will be able to uphold integrity and human values.

• Graduates will be able to appreciate and promote pluralism and multiculturalism in working environment.

## Programme Outcomes (POs)

1. Graduates will be able to comprehend the concepts learnt and apply in real life situations with analytical skills.

2. Graduates with acquired skills and enhanced knowledge will be employable/ become entrepreneurs or will pursue higher Education.

3. Graduates with acquired knowledge of modern tools communicative skills and will be able to contribute effectively as team members.

4. Graduates are able to read the signs of the time analyze and provide practical solutions.

5. Graduates imbibed with ethical values and social concern will be able to understand and appreciate social harmony, cultural diversity ensure sustainable environment.

## Programme Specific Outcomes (PSOs)

1. Graduates will be able to get employment skills, entrepreneurial skills and leadership skills in the functional areas of various businesses by gaining knowledge in various disciplines of Commerce, Accounting, Economics, Finance, Marketing and Auditing.

2. Graduates will be able to acquire skills to work as tax consultants, Audit assistants and work in all types of financial and commercial services.

3. Graduates will gain knowledge to enter into professional exams, government board examinations to go for employment in government departments. Graduates will have choices to pursue higher education in all the fields of commerce and Computer Application

4. Graduates will obtain the ability in Object oriented programming concepts, C++, C, RDBMS, and Programming in ORACLE, JAVA, and VISUAL BASIC and be able to develop software in Linux environments. They also have knowledge in web designing.

5. Graduates will be trained to have ethical values, soft skills, communication skills and environmental friendly skills and to face the changing international trends.

| | | B.Com. Computer Application | | | |
|---|---|---|---|---|---|
| | | **Programme Structure** | | | |
| **Part** | **Semester** | **Specification** | **No. of Courses** | **Hours** | **Credits** |
| 1 | 1- 4 | Languages (Tamil / Hindi / French / Sanskrit) | 4 | 16 | 12 |
| 2 | 1 - 4 | General English | 4 | 20 | 12 |
| 3 | 1 - 6 | Core Course | 14 | 66 | 43 |
| | 1 - 6 | Core Practical | 6 | 16 | 12 |
| | 1 & 2 | Allied Course | 2 | 9 | 6 |
| | 1 & 2 | Allied Practical | 1 | 3 | 2 |
| | 3 & 4 | Allied Optional | 2 | 12 | 8 |
| | 3 & 4 | Allied Optional Practical | - | - | - |
| | 5 & 6 | Discipline Specific Elective | 4 | 16 | 12 |
| | 5 | Internship | 1 | - | 1 |
| | 6 | Project / Industrial Visit / Field Visit | 1 | - | 1 |
| | 6 | Comprehensive Examination | 1 | - | 2 |
| 4 | 1 - 4 | Value Education | 4 | 8 | 4 |
| | 1 & 2 | Ability Enhancement Compulsory Course | 2 | 2 | 3 |
| | 2 - 5 | Self - Learning | 4 | - | 8 |
| | 3 & 4 | Skill Enhancement Course | 2 | 4 | 2 |
| | 5 & 6 | Open Elective | 2 | 8 | 4 |
| 5 | 2 - 6 | Outreach Programme (SHEPHERD) | - | - | 4 |
| | 2 - 6 | Co-curricular and Extracurricular Activities | - | - | 1 |
| | 2 - 6 | Extra Credit Courses (MOOC) / Certificate Courses | 5 | - | (15) |
| | | **Total** | **59** | **180** | **137 (15)** |

| Sem. | Part | Course Code | Course Type | Title of the Course | Hours | Credits | CIA | SE | Final |
|---|---|---|---|---|---|---|---|---|---|
| | | | | **B.COM. COMPUTER APPLICATION PROGRAMME PATTERN** | | | | | |
| | | | | **Course Details** | | | **Scheme of Exams** | | |
| **1** | I | 25UTA11GL01 | GL | General Tamil – 1 | 4 | 3 | 100 | 100 | 100 |
| | | 25UFR11GL01 | | Language French – 1 | | | | | |
| | | 25UHI11GL01 | | Language Hindi – 1 | | | | | |
| | | 25USA11GL01 | | Language Sanskrit – 1 | | | | | |
| | II | 25UEN12GE01A | GE | **General English – 1:** Pre-Intermediate Stream | 5 | 3 | 100 | 100 | 100 |
| | | 25UEN12GE01B | | **General English – 1:** Intermediate Stream | | | | | |
| | III | 25UCC13CC01 | CC Major | **Core Course - 1:** Financial Accounting - 1 | 6 | 5 | 100 | 100 | 100 |
| | | 25UCC13CC02 | | **Core Course - 2:** Office Automation | 4 | 2 | 100 | 100 | 100 |
| | | 25UCC13CP01 | | **Core Practical - 1:** Office Automation | 3 | 2 | 100 | 100 | 100 |
| | | 25UCC13AC01 | AC Minor | **Allied Course - 1:** Business Environment | 6 | 4 | 100 | 100 | 100 |
| | IV | 25UHE14VE01 | VE | **Value Education – 1:** Essentials of Humanity* | 2 | 1 | 50 | 50 | 50 |
| | | 25UEN14AE01 | AECC | Communicative English | - | 2 | 100 | - | 100 |
| | | | | **Total** | **30** | **22** | | | |
| **2** | I | 25UTA21GL02 | GL | General Tamil – 2 | 4 | 3 | 100 | 100 | 100 |
| | | 25UFR21GL02 | | Language French – 2 | | | | | |
| | | 25UHI21GL02 | | Language Hindi – 2 | | | | | |
| | | 25USA21GL02 | | Language Sanskrit – 2 | | | | | |
| | II | 25UEN22GE02A | GE | **General English – 2:** Pre-Intermediate Stream | 5 | 3 | 100 | 100 | 100 |
| | | 25UEN22GE02B | | **General English – 2:** Intermediate Stream | | | | | |
| | III | 25UCC23CC03 | CC Major | **Core Course - 3:** Financial Accounting - 2 | 6 | 4 | 100 | 100 | 100 |
| | | 25UCC23CC04 | | **Core Course - 4:** Fundamentals of C Programming | 3 | 2 | 100 | 100 | 100 |
| | | 25UCC23CP02 | | **Core Practical - 2:** Programming in C | 2 | 2 | 100 | 100 | 100 |
| | | 25UCC23AC02 | AC Minor | **Allied Course - 2:** Financial Modeling in Excel | 3 | 2 | 100 | 100 | 100 |
| | | 25UCC23AP01 | | **Allied Practical - 1:** Financial Modeling in Excel | 3 | 2 | | | |
| | IV | 25UHE24AE02 | AECC | Environmental Studies* | 2 | 1 | 50 | 50 | 50 |
| | | 25UHE24VE02 | VE | **Value Education - 2:** Fundamentals of Human Rights* | 2 | 1 | 50 | 50 | 50 |
| | | 25UCC24SL01 | SL | Online Courses: (NPTEL/SWAYAM) | 0 | 2 | - | 100 | 100 |
| | | | | Extra Credit Course | 0 | (3) | | | |
| | | | | **Total** | **30** | **22 (3)** | | | |
| **3** | I | 25UTA31GL03 | GL | General Tamil – 3 | 4 | 3 | 100 | 100 | 100 |
| | | 25UFR31GL03 | | Language French – 3 | | | | | |
| | | 25UHI31GL03 | | Language Hindi – 3 | | | | | |
| | | 25USA31GL03 | | Language Sanskrit – 3 | | | | | |
| | II | 25UEN32GE03C | GE | General English – 3: English for Management Studies - 1 | 5 | 3 | 100 | 100 | 100 |
| | III | 25UCC33CC05 | CC Major | **Core Course - 5:** Corporate Accounting | 6 | 4 | 100 | 100 | 100 |
| | | 25UCC33CC06 | | **Core Course - 6:** Database Management System | 3 | 2 | 100 | 100 | 100 |
| | | 25UCC33CP03 | | **Core Practical - 3:** Oracle SQL | 2 | 2 | 100 | 100 | 100 |
| | | 25UCC33AO01A | AO Minor | **Allied Optional – 1:** Elements of Mathematics | 6 | 4 | 100 | 100 | 100 |
| | | 25UCC33AO01B | | **Allied Optional – 1:** Business Mathematics | | | | | |
| | IV | 25UHE34VE03A | VE | **Value Education – 3:** Social Ethics – 1* | 2 | 1 | 50 | 50 | 50 |
| | | 25UHE34VE03B | | **Value Education – 3:** Religious Doctrine – 1* | | | | | |
| | | 25UNC34SE01/ 25USS34SE01 | SEC | **Skill Enhancement Course – 1:** Introduction to NCC / **Skill Enhancement Course – 1:** Soft Skills | 2 | 1 | 100 | - | 100 |
| | | 25UAI34SL02 | SL | Artificial Intelligence (Online) | 0 | 2 | 100 | - | 100 |
| | | | | Extra Credit Course | 0 | (3) | | | |
| | | | | **Total** | **30** | **22 (3)** | | | |
| **4** | I | 25UTA41GL04C | GL | General Tamil – 4 - Business Tamil (வணிகத்தமிழ்) | 4 | 3 | 100 | 100 | 100 |
| | | 25UFR41GL04 | | Language French – 4 | | | | | |
| | | 25UHI41GL04 | | Language Hindi – 4 | | | | | |
| | | 25USA41GL04 | | Language Sanskrit – 4 | | | | | |

| Sem | Part | Code | Category | Course Title | Hours | Credits | | | |
|---|---|---|---|---|---|---|---|---|---|
| | II | 25UEN42GE04C | GE | General English – 4: English for Management Studies - 2 | 5 | 3 | 100 | 100 | 100 |
| | III | 25UCC43CC07 | CC Major | Core Course - 7: Management Accounting- (Internship Embedded Course) | 6 | 4 | 100 | 100 | 100 |
| | | 25UCC43CC08 | | Core Course – 8: Big Data Analysis | 3 | 2 | 100 | 100 | 100 |
| | | 25UCC43CP04 | | Core Practical - 4: Data Analysis using R | 2 | 2 | 100 | 100 | 100 |
| | | 25UCC43AO02A | AO Minor | Allied Optional - 2: Elements of Statistics | 6 | 4 | 100 | 100 | 100 |
| | | 25UCC43AO02B | | Allied Optional - 2: Business Statistics | | | | | |
| | IV | 25UHE44VE04A | VE | Value Education - 4: Social Ethics – 2* | 2 | 1 | 50 | 50 | 50 |
| | | 25UHE44VE04B | | Value Education - 4: Religious Doctrine – 2* | | | | | |
| | | 25UNC44SE02/ | SEC | Skill Enhancement Course – 2: NCC (Special Subject) / | 2 | 1 | 100 | - | 100 |
| | | 25UCC44SE02 | | Skill Enhancement Course – 2: Entrepreneurship Development | | | | | |
| | | 25UCC44SL03A | SL | Self - Learning: Orange Data Management* | 0 | 2 | 50 | 50 | 50 |
| | | 25UCC44SL03B | | Self - Learning: Security in Information Technology* | | | | | |
| | | | | Extra Credit Course | 0 | (3) | | | |
| | | | | **Total** | **30** | **22 (3)** | | | |
| 5 | III | 25UCC53CC09 | CC Major | Core Course - 9: Cost Accounting | 6 | 4 | 100 | 100 | 100 |
| | | 25UCC53CC10 | | Core Course - 10: Python Programming | 3 | 2 | 100 | 100 | 100 |
| | | 25UCC 53CP05 | | Core Practical - 5: Python Programming | 3 | 2 | 100 | 100 | 100 |
| | | 25UCC53CC11 | | Core Course - 11: Research Methodology | 6 | 3 | 100 | 100 | 100 |
| | | 25UCC53ES01A | DSE | Discipline Specific Elective – 1: Account Assistants (NSQF Based Paper) | 4 | 3 | 100 | 100 | 100 |
| | | 25UCC53ES01B | | Discipline Specific Elective – 1: Machine learning | | | | | |
| | | 25UCC53ES02A | DSE | Discipline Specific Elective – 2: Human Resource Management | 4 | 3 | 100 | 100 | 100 |
| | | 25UCC53ES02B | | Discipline Specific Elective – 2: Applications of IOT | | | | | |
| | | 25UCC53IS01 | IS | Internship | 0 | 1 | 100 | - | 100 |
| | IV | 25UCC54OE01A | OE | Open Elective - 1 (WS): Innovation Management | 4 | 2 | 100 | 100 | 100 |
| | | 25UCC54OE01B | | Open Elective - 1 (WS): AI in Human Resource Management | | | | | |
| | | 25UCC54SL04 | SL | Certificate Course: Business Analytics | 0 | 2 | 100 | - | 100 |
| | | | | Extra Credit Course | 0 | (3) | | | |
| | | | | **Total** | **30** | **22 (3)** | | | |
| 6 | III | 25UCC63CC12 | CC Major | Core Course - 12: Income Tax Law and Practice | 6 | 4 | 100 | 100 | 100 |
| | | 25UCC63CC13 | | Core Course - 13: Professional Accounting with TallyPrime | 3 | 2 | 100 | 100 | 100 |
| | | 25UCC63CP06 | | Core Practical - 6: Professional Accounting with TallyPrime | 4 | 2 | 100 | 100 | 100 |
| | | 25UCC63CC14 | | Core Course - 14: Advanced Auditing | 5 | 3 | 100 | 100 | 100 |
| | | 25UCC63ES03A | DSE | Discipline Specific Elective – 3: Investment management and stock trading | 4 | 3 | 100 | 100 | 100 |
| | | 25UCC63ES03B | | Discipline Specific Elective – 3: Business Law | | | | | |
| | | 25UCC63ES04A | DSE | Discipline Specific Elective – 4: AI in Business Practice | 4 | 3 | 100 | 100 | 100 |
| | | 25UCC63ES04B | | Discipline Specific Elective – 4: Total Quality Management | | | | | |
| | | 25UCC63EL01A / 25UCC63EL01B / 25UCC63EL01C | EL | Project / Industrial Visit / Field Visit | 0 | 1 | 100 | - | 100 |
| | | 25UCC63CE01 | CE | Comprehensive Examination* | 0 | 2 | 50 | 50 | 50 |
| | IV | 25UCC64OE02A | OE | Open Elective – 2: Social Media Marketing | 4 | 2 | 100 | 100 | 100 |
| | | 25UCC64OE02B | | Open Elective – 2: Basics of Banking | | | | | |
| | | | | Extra Credit Course | 0 | (3) | | | |
| | | | | **Total** | **30** | **22(3)** | | | |
| | V | 25UCW65OR01 | OR | Outreach Programme | - | 4 | | | |
| | | 25UCW65EC01 | EC | Co-Curricular & Extra Curricular Activities | - | 1 | | | |
| 1-6 | | | | **TOTAL** | **180** | **137 (15)** | | | |

**\*For Grade Calculation:** Marks obtained out of 50 will be converted into 100 in the mark statements.

## Open Elective - 1 (WS): 5<sup>th</sup> Semester

| School | Course Code | Title of the Course |
|---|---|---|
| **SMS** | | |
| BBA | 25UBU54OE01A | Global Supply Chain Management |
| | 25UBU54OE01B | Starts-ups and small Business Management |
| Commerce | 25UCO54OE01A | Goods and Service Tax |
| | 25UCO54OE01B | Personal Investment Planning |
| | 25UCO54OE01C | Computerized Accounting |
| Commerce Business Analytics | 25UCB54OE01 | Personal Financial Management |
| Commerce Strategic Finance | 25UCF54OE01 | Strategic Business Leader |
| Commerce Computer Application | 25UCC54OE01A | Innovation Management |
| | 25UCC54OE01B | AI in Human Resource Management |
| Economics | 25UEC54OE01 | Principles of Economics |

## Open Elective - 2: 6th Semester
### Offered to students from other Departments

| Department | Course Code | Title of the Course |
|---|---|---|
| Artificial Intelligence and Machine Learning | 25UAI64OE02 | Gen AI tools |
| Botany | 25UBO64OE02 | Landscape Designing and Waste Management |
| Biotechnology | 25UBT64OE02 | Food Science and Technology |
| BBA | 25UBU64OE02A | Practical Stock trading |
| | 25UBU64OE02B | Export Management |
| B Com Business Analytics | 25UCB64OE02 | Personal Investment Planning |
| B Com Computer Application | 25UCC64OE02A | Social Media Marketing |
| | 25UCC64OE02B | Basics of Banking |
| B Com Strategic Finance | 25UCF64OE02 | Personal Financial Management |
| Chemistry | 25UCH64OE02 | Food & Nutrition |
| B Com | 25UCO64OE02A | Digital Marketing |
| | 25UCO64OE02B | Digital Banking |
| | 25UCO64OE02C | Stock Trading |
| Computer Science | 25UCS64OE02 | Design Thinking |
| BCA | 25UBC64OE02 | Web Design |
| Economics | 25UEC64OE02 | Economics for Competitive Exams |
| Electronics | 25UEL64OE02A | CCTV and Smart Security Systems |
| | 25UEL64OE02B | Entrepreneurial Electronics |
| English | 25UEN64OE02 | English for Employability |
| History | 25UHS64OE02 | Intellectual Revivalism in Tamil Nadu |
| Mathematics | 25UMA64OE02 | Mathematics for Competitive Examinations |
| Physics | 25UPH64OE02A | Laser Technology and its Application |
| | 25UPH64OE02B | Physics of Earth |
| Statistics | 25UST64OE02 | Applied Statistics |
| Tamil | 25UTA64OE02 | படைப்பிலக்கியம் (Creative writing) |
| Visual Communication | 25UVC64OE02 | Digital Media and Production |

| Semester | Course Code | Title of the Course | Hours/Week | Credits |
|----------|-------------|---------------------|------------|---------|
| *1* | *25UTA11GL01* | பொதுத்தமிழ் – 1: General Tamil - 1 | *4* | *3* |

| கற்றலின் நோக்கங்கள் (Course Objectives) |
|---|
| புதிய இலக்கிய வடிவங்களை அறியும் திறனைப் பெறுதல் |
| எழுத்து சொல் இலக்கணத்தில் இன்றியமையாமையை உணர்தல் |
| புதுக்கவிதைகளின் கூறுகளை வாழ்வியலோடு பொருத்திப்பார்த்தல் |
| தமிழ்க்கவிதைகளைப் பிறமொழிக் கவிதைகளோடு ஒப்பிட்டுப் பார்த்தல் |
| புதுக்கவிதைகளைப் படைக்கும் திறன் பெறுதல் |

**அலகு-1**          *(12 மணி நேரம்)*

| | |
|---|---|
| பாரதியார் கவிதைகள் | - பாஞ்சாலிசபதம்: சபதச் சருக்கம் |
| பாரதிதாசன் கவிதைகள் | - புரட்சிக்கவி : மன்னனின் சர்வாதிகாரம், கவிஞனின் எழுச்சியுரை, கவிஞனின் மொழிப்பற்று, மக்களாட்சி மலரும் விதம் |
| இலக்கிய வரலாறு | - இருபதாம் நூற்றாண்டுத் தமிழ்க்கவிஞர்கள் |
| உரைநடை | - முதல் மூன்று கட்டுரைகள் |

**அலகு-2**          *(12 மணி நேரம்)*

| | |
|---|---|
| வெ.இராமலிங்கனார் | - தமிழ், அரசியல் |
| முடியரசனார் | - தொழிலாளி, துறைதோறும் தமிழே காண்பீர், மொழியுணர்ச்சி |
| பெருஞ்சித்திரனார் | - என்னென்று சொல்வோம், இனியேனும் ஒன்றிணைவீர் |
| பட்டுக்கோட்டையார் | - என் விருப்பம், ஏட்டில் படித்ததோடு இருந்து விடாதே, அன்னசத்திரம் இருப்பதெதனாலே? |
| இலக்கிய வரலாறு | - புதுக்கவிதை வடிவங்கள் |
| இலக்கணம் | - எழுத்து |

**அலகு-3 : சமூகக் கவிதைகள்**          *(12 மணி நேரம்)*

| | |
|---|---|
| சுரதா | - நெஞ்சில் நிறுத்துங்கள், பூம்புகார் |
| மு. மேத்தா | - உன்னுடைய கொடியை |
| கண்ணதாசன் | - ஆணவம் அழியும் |
| அப்துல் ரகுமான் | - பசி |
| தங்கம் மூர்த்தி | - கூடு திரும்புதல் எளிதன்று |
| ஜெயபாஸ்கரன் | - ஒற்றைக் கேள்வியுடன் ஒருவர் |
| இலக்கிய வரலாறு | - சிறுகதை- உரைநடை |
| சிறுகதை | - முதல் மூன்று கதைகள் |

**அலகு-4 : அரசியல் கவிதைகள்**          *(12 மணி நேரம்)*

| | |
|---|---|
| ஈரோடு தமிழன்பன் | - எட்டாவது சீர் |
| யுகபாரதி | - பழைய புத்தக வியாபாரி |
| கனிமொழி | - கருவறை வாசனை |
| அ.வெண்ணிலா | - நீரில் அலையும் முகம் |
| பெருமாள் முருகன் | - குழந்தைகளைத் தண்டித்தல் |
| சீனு ராமசாமி | - அகதி |
| கல்கி சுப்பிரமணியம் | - விதியை எழுதினேன் |
| இலக்கணம் | - சொல் |

**அலகு-5 : அயலகக் கவிதைகள்**          *(12 மணி நேரம்)*

| | |
|---|---|
| தஸ்லீமா நஸ்ரின் | - கல் உடைக்கும் பெண் |
| மாயா ஏஞ்சலு | - கைத்தட்டுங்கள் கொண்டாடுங்கள் |
| நானிலு கவிதைகள் | - 10 கவிதைகள் |
| உரைநடை | - நான்கு முதல் ஆறு வரை உள்ள கட்டுரைகள் |
| சிறுகதை | - நான்கு முதல் ஆறு வரை உள்ள கதைகள் |

| கற்பித்தல் அணுகுமுறை *Teaching Methodology* | விரிவுரை *(Lecture)*, காணொளிக் காட்சி *(Videos)*, விளக்க காட்சி *(PPT presentation)* |
|---|---|
| மதிப்பீட்டு முறைகள் *Assessment methods* | நூல் நோக்குத் தேர்வு *(Open Book Test)*, இயங்கலைத்தேர்வு *(Online Test)*, ஒப்படைவு *(Assignment)*, வினாடி வினா *(Quiz)*, கருத்துரை *(Seminar)* |

**பாடநூல்:**

     பொதுத்தமிழ்-1(2025), தமிழாய்வுத்துறை, தூய வளனார் கல்லூரி

### Course Outcomes

| CO No. | CO-Statements<br>இப்பாடத்தின் நிறைவில் மாணவர்கள் | Cognitive Levels<br>(K –Levels) |
|---|---|---|
| CO–1 | இக்கால இலக்கிய வகைகளைக் கண்டறிவர் | K1 |
| CO–2 | எழுத்து, சொல்லிலக்கணங்களின் அடிப்படைகளை வகைப்படுத்தி அறிவர். | K2 |
| CO–3 | அயலகக் கவிதை வடிவங்கள் குறித்த தெளிவான விளக்கங்களைப் பெறுவர். | K3 |
| CO–4 | மொழிபெயர்ப்புக் கவிதைகளைக் கற்பதன் வாயிலாகத் திறனாய்வு செய்யும் திறனை வளர்த்தெடுப்பர். | K4 |
| CO–5 | புதுக்கவிதை வாயிலாக வெளிப்படும் சமூக, அரசியல் விழுமியங்களை மதிப்பிடுவர் | K5 |

### Relationship Matrix

| Semester | Course Code | Title of the Course | | | | | | | | | Hours | Credits |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 25UTA11GL01 | பொதுத்தமிழ் – 1: General Tamil - 1 | | | | | | | | | 4 | 3 |

| Course Outcomes↓ | Programme Outcomes (PO) | | | | | Programme Specific Outcomes (PSO) | | | | | Mean Scores of COs |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | PO-1 | PO-2 | PO-3 | PO-4 | PO-5 | PSO-1 | PSO-2 | PSO-3 | PSO-4 | PSO-5 | |
| CO-1 | 3 | 3 | 2 | 2 | 3 | 3 | 3 | 2 | 3 | 3 | 2.7 |
| CO-2 | 2 | 2 | 3 | 2 | 2 | 3 | 2 | 3 | 2 | 3 | 2.4 |
| CO-3 | 3 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 2 | 2.8 |
| CO-4 | 2 | 2 | 2 | 2 | 1 | 2 | 2 | 3 | 2 | 2 | 2.0 |
| CO-5 | 3 | 2 | 3 | 2 | 2 | 3 | 2 | 2 | 3 | 3 | 2.5 |
| Mean Overall Score | | | | | | | | | | | 2.48 (High) |

| Semester | Course Code | Title of the Course | Hours/Week | Credits |
|----------|-------------|---------------------|------------|---------|
| **1** | **25UFR11GL01** | Language French – 1 | **4** | **3** |

| Course Objectives |
|---|
| Familiarize students with the French language through an exploration of francophone culture, traditions, and civilization. |
| Build fundamental knowledge in listening, speaking, reading, and writing (LSRW) as outlined by the Common European Framework of Reference for Languages (CEFR). |
| Enable students to understand and use basic grammatical structures and essential vocabulary in context. |
| Equip students with the skills needed to engage in simple, real-life conversations and interactions in French. |
| Foster a deeper connection to the language by integrating cultural elements, enhancing motivation and intercultural awareness. |

**UNIT I** (12 Hours)

1. Titre - Je Suis
2. Lexique - L'alphabet, les salutations, les loisirs, les nombres
3. Grammaire - Les pronoms personnels sujets, les articles définis et indéfinis, les verbes auxiliaires, les adjectifs de nationalité, l'adjectif interrogatif 'quel'
4. Production orale- se présenter
5. Production écrite - Donner des informations personnelles

**UNIT II** (12 Hours)

6. Titre - Près de moi
7. Lexique – Les lieux, la famille, la situation familiale, les professions
8. Grammaire – les verbes en 'er'au présent, le masculin et le féminin des professions, les adjectifs possessifs
9. Production orale- Demander et dire le lieu d'habitation
10. Production écrite - Présenter et parler de sa famille

**UNIT III** (12 Hours)

11. Titre - Qu'est-ce qu'on mange ?
12. Lexique – les commerces, les commerçants, les aliments, les moyens de paiement
13. Grammaire – le singulier et le pluriel des noms, les prépositions de lieu, les verbes en 'ir'
14. Production orale- faire des courses alimentaires, demander et dire le prix
15. Production écrite - Donner une appréciation, commander au restaurant, créer un menu

**UNIT IV** (12 Hours)

16. Titre - C'est où
17. Lexique – la ville, les monuments, les transports
18. Grammaire – la fréquence, l'impératif, les connecteurs
19. Production orale- demander et indiquer le chemin, se déplacer des transports en commun
20. Production écrite - présenter une ville ou un quartier, créer un guide pour un monument

**UNIT V** (12 Hours)

21. Titre - C'est tendance
22. Lexique – les vêtements, les couleurs, les matières, les objets technologiques, la météo
23. Grammaire – le genre et le nombre des adjectifs, le futur proche, la place des adjectifs, l'adjectif démonstratif
24. Production orale- demander et dire l'utilité d'un produit, parler de la météo
25. Production écrite - Donner une appréciation sur un vêtement, décrire un objet
26. Indian knowledge system- Incorporating hand gestures and expressions to reinforce non-verbal communication in French and assimilating traditional Indian culinary knowledge while learning French food cultures (5%)

| Teaching Methodology | Kinesthetic & Multi-Sensory Learning, Rhythm-Based Learning – ex. comptines, Deductive & Explicit Learning- structural approach, oral approach, blended learning, media integration |
|---|---|
| Assessment Methods | *Oral assessment:* Introduce Oneself – (Rubric –assessed on correct usage of vocabulary, personal pronouns and basic verbs)<br>*TPR activity:* Evaluate comprehension of oral commands like action words. (Rubric –assessed on comprehension, response and reaction time)<br>*Reading comprehension:* Read a simple passage like a personal description, and answer questions. (Rubric –assessed on accuracy of response)<br>*Written assessment:* Write simple structured texts on short personal introduction. (Rubric –Graded on correct grammar, sentence structure, and vocabulary usage) |

**Books for Study:**
1. Mensdorff-Pouilly, L., Opatski, S., Petitmengin, V., Pons, S., Sperandio, C., Djimli, H., & Veldeman-Abry, J. (2022). *Édito A1: Méthode de français* (2nd ed.). Didier FLE, Hatier. (P.1-P.86)

**Books for Reference:**
1. Dauda, P., Giachino, L., & Baracco, C. (2020). *Génération A1*. Didier.
2. Mérieux, R., &Loiseau, Y. (2012). *Latitudes A1*. Didier.

**Websites and e-learning Sources:**
1. https://apprendre.tv5monde.com/en
2. https://www.thefrenchexperiment.com
3. https://www.iletaitunehistoire.com
4. https://www.francaisfacile.com
5. https://www.francaisauthentique.com

| | Course Outcomes | |
|---|---|---|
| **CO No.** | **CO–Statements** | **Cognitive Levels (K –Levels)** |
| | On successful completion of this course, students will be able to | |
| **CO1** | Recognize and use fundamental vocabulary including greetings, while constructing simple sentences with personal pronouns and basic verbs. | **K1** |
| **CO2** | Introduce themselves, ask and answer questions about personal details, express preferences, and engage in role-play conversations related to daily life | **K2** |
| **CO3** | Differentiate between definite and indefinite articles, form plural and singular nouns, conjugate regular verbs in the present tense, and use adjectives correctly | **K3** |
| **CO4** | Ask for and give directions, order food, discuss weather conditions, describe clothing and objects, and create simple structured texts such as menus, guides, and personal descriptions. | **K4** |
| **CO5** | Demonstrate awareness of Francophone culture through language use in real-world scenarios, such as public transport, shopping, dining, and professional settings. | **K5** |

| Relationship Matrix | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| **Semester** | **Course Code** | | **Title of the Course** | | | | **Hours** | | **Credits** | |
| **1** | **25UFR11GL01** | | Language French – 1 | | | | **4** | | **3** | |
| **Course Outcomes** | **Programme Outcomes (POs)** | | | | | **Programme Specific Outcomes (PSOs)** | | | | **Mean Score of Cos** |
| | **PO1** | **PO2** | **PO3** | **PO4** | **PO5** | **PSO1** | **PSO2** | **PSO3** | **PSO4** | **PSO5** |
| **CO1** | 2 | 2 | 2 | 1 | 3 | 2 | 1 | 1 | 2 | 3 | 1.9 |
| **CO2** | 3 | 2 | 3 | 3 | 1 | 3 | 2 | 3 | 3 | 3 | 2.6 |
| **CO3** | 2 | 2 | 2 | 2 | 2 | 2 | 1 | 2 | 2 | 2 | 1.9 |
| **CO4** | 3 | 3 | 3 | 3 | 2 | 3 | 2 | 2 | 2 | 3 | 2.6 |
| **CO5** | 3 | 2 | 2 | 3 | 3 | 3 | 3 | 2 | 3 | 3 | 2.7 |
| | | | | | | | | | **Mean Overall Score** | **2.34 (High)** |

| Semester | Course Code | Title of the Course | Hours/Week | Credits |
|---|---|---|---|---|
| 1 | 25UHI11GL01 | Language Hindi - 1 | 4 | 3 |

| Course Objectives |
|---|
| To understand the basics of Hindi Language |
| To make the students to be familiar with the Hindi words |
| To enable the students to develop their effective communicative skills in Hindi |
| To introduce the socially relevant subjects in Modern Hindi Literature |
| To empower the students with globally employable soft skills |

**UNIT I** (12 Hours)
1. Swar
2. Vyanjan
3. Barah Khadi
4. Shabd aur Vakya

**UNIT II** (12 Hours)
5. Rishtom ke Naam
6. Gharelu Padartho ke Naam
7. Sangya
8. Hindi Ginthi

**UNIT III** (12 Hours)
9. Sapthah ke Din
10. Sarvanam
11. Vilom Shabd
12. Dr. Abdul Kalam

**UNIT IV** (12 Hours)
13. Sal ke Maheene
14. Shareer ke Ang
15. Visheshan
16. Batcheeth - Dookan mein

**UNIT V** (12 Hours)
17. Janvarom ke Naam
18. Rang
19. Dishayem
20. Adhikal (Introduction)

| Teaching Methodology | Peer Instruction Exercise, Videos, PPT, Quiz, Group Discussion |
|---|---|
| Assessment Methods | Seminar, Quiz, Assignment |

**Books for Study:**
1. *Prathamic Patya Pusthak*, Dakshina Bharath Hindi Prachara Sabha, Thiagaraya Nagar, Chennai, 2022.
2. M. Ravi Chandran, *Concise Trilingual Dictionary,* Lotus Publications, Madurai, 2021.
3. M. kamathaprasad Gupth, *Hindi Vyakaran*, Anand Prakashan, Kolkatta, 2020.
4. *Madyama Patya Pusthak*, Dakshina Bharath Hindi Prachara Sabha, Thiagaraya Nagar, Chennai, 2022.

**Books for Reference:**
1. Dr. A. P. J. Abdul Kalam, *Mere sapnom ka Bharath*, Prabath Prakashan, Noida, 2020,
2. *Meri Pratham Hindi Sulekh Shabd Gyaan*, Wonder House Books, Noida, 2022.

3. Aravind Kumar, *Sampoorna Hindi Vyakaran our Rachana*, Lucent publisher, 2022.
4. *Adhunik Hindi Vyakaran our Rachana,* Bharati Bhavan Publishers & distributors, 2024.
5. Acharya Ramchandra Shukla, *Hindi Sahitya Ka Itihas*, Prabhat Prakashan, 2023.

**Websites and e-Learning Sources:**
1. https://learningmole.com/hindi-alphabet-letters-pronunciation-guide/
2. https://www.careerpower.in/hindi-alphabet-varnamala.html
3. https://www.youtube.com/watch?v=b0UvXnIC8qc
4. https://www.importanceoflanguages.com/learn-hindi-language-guide/
5. https://parikshapoint.com/hindi-sahitya/

| Course Outcomes | | |
|---|---|---|
| **CO No.** | **CO–Statements**<br>On successful completion of this course, students will be able to | **Cognitive Levels**<br>**(K –Levels)** |
| **CO1** | Introduction to Hindi sounds. | **K1** |
| **CO2** | Acquisition of Hindi Vocabulary. | **K2** |
| **CO3** | Sentence formation in Hindi. | **K3** |
| **CO4** | Practical application of grammar. | **K4** |
| **CO5** | Justify the social & political conditions of Aadhi Kaal in Hindi Literature. | **K5** |

| Relationship Matrix | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| **Semester** | **Course Code** | | **Title of the Course** | | | **Hours/week** | | | **Credits** | |
| **1** | **25UHI11GL01** | | Language Hindi - 1 | | | **4** | | | **3** | |
| **Course Outcomes (COs)** | **Programme Outcomes (POs)** | | | | | **Programme Specific Outcomes (PSOs)** | | | | **Mean Scoreof Cos** |
| | **PO1** | **PO2** | **PO3** | **PO4** | **PO5** | **PSO1** | **PSO2** | **PSO3** | **PSO4** **PSO5** | |
| **CO1** | 3 | 2 | 2 | 1 | 3 | 3 | 3 | 1 | 3 | 2 | 2.3 |
| **CO2** | 2 | 3 | 2 | 3 | 1 | 2 | 3 | 3 | 3 | 2 | 2.4 |
| **CO3** | 3 | 2 | 2 | 2 | 1 | 3 | 2 | 3 | 2 | 3 | 2.3 |
| **CO4** | 3 | 1 | 2 | 3 | 2 | 3 | 2 | 3 | 3 | 2 | 2.4 |
| **CO5** | 2 | 3 | 3 | 2 | 3 | 2 | 3 | 3 | 1 | 3 | 2.5 |
| | | | | | | | | **Mean overall Score** | | **2.38 (High)** |

| Semester | Course Code | Title of the Course | Hours/Week | Credits |
|---|---|---|---|---|
| **1** | **25USA11GL01** | Language Sanskrit - 1 | **4** | **3** |

| Course Objectives |
|---|
| To improve knowledge in Sanskrit |
| To train students in reading Sanskrit words |
| To introduce the fundamental grammar |
| To coach ethics and improve self-confident |
| To train the students to use the tenses in Sanskrit |

**UNIT I** (**12 Hours**)

Introduction to Sanskrit

**UNIT II** (**12 Hours**)

Subhandha shabda vicaraha (akaara, aakaara, ikaara, iikaara)

**UNIT III** (**12 Hours**)

Vartamankala lat lakaara vakya prayogaha

**UNIT IV** (**12 Hours**)

Samskrita sharala vakya paricayaha

**UNIT V** (**12 Hours**)

Selected verses from good saying in Sanskrit

| **Teaching Methodology** | Videos, PPT, Blackboard, Demonstration, Exercises |
|---|---|
| **Assessment Methods** | Seminar, Quiz, Group Discussion. |

**Books for Study:**
    Shadhamanjari

**Books for Reference:**
1. Kulapathy, K.M., Sarala Samkrit Balabodh, Bharatiya Vidya Bhavan, Munushimarg Mumbai – 4000 007 2021
2. R.S. Vadhyar & Sons, Book – Sellers and publishers, Kalpathi. Palagahat 678003, Kerala, South Inida, Shabdha Manjari 2022
3. Balasubramaniam R, Samskrita Akshatra Siksha, Vangals Publications, 14th Main road, JP Nagar, Bangalore – 78 2020

**Websites and e-Learning Sources:**
   1. https://www.learnsanskrit.org/static/pdf/vyakarana.pdf
   2. https://archive.org/details/in.ernet.dli.2015.382597
   3. https://openpathshala.com/sanskrit-grammar-basic/3

| Course Outcomes | | |
|---|---|---|
| **CO No.** | **CO–Statements** | **Cognitive Levels (K –Levels)** |
| | On successful completion of this course, students will be able to | |
| **CO–1** | Remember and Recall words relating to objects. | **K1** |
| **CO–2** | Understand classified vocabulary. | **K2** |
| **CO–3** | Apply nouns and verbs | **K3** |
| **CO–4** | Analyze different forms of names and verbs | **K4** |
| **CO–5** | Appreciate the good saying of Sanskrit Improve the self-values. | **K5** |

| Relationship Matrix | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| **Semester** | **Course Code** | | **Title of the Course** | | | | | | **Hours** | **Credits** |
| **1** | **25USA11GL01** | | Language Sanskrit - 1 | | | | | | **4** | **3** |
| **Course Outcomes↓** | **Programme Outcomes (PO)** | | | | | **Programme Specific Outcomes (PSO)** | | | | **Mean Scores of COs** |
| | **PO1** | **PO2** | **PO3** | **PO4** | **PO5** | **PSO1** | **PS02** | **PSO3** | **PSO4** | **PSO5** | |
| **CO-1** | 3 | 1 | 1 | 3 | 2 | 3 | 2 | 3 | 2 | 2 | 2.2 |
| **CO-2** | 2 | 2 | 3 | 3 | 1 | 2 | 2 | 3 | 3 | 2 | 2.3 |
| **CO-3** | 3 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 2 | 2.3 |
| **CO-4** | 3 | 2 | 2 | 3 | 2 | 3 | 3 | 3 | 2 | 2 | 2.3 |
| **CO-5** | 3 | 2 | 3 | 2 | 3 | 2 | 2 | 3 | 3 | 3 | 2.6 |
| **Mean Overall Score** | | | | | | | | | | | **2.34 (High)** |

| Semester | Course Code | Title of the Course | Hours/Week | Credits |
|:---:|:---:|:---:|:---:|:---:|
| 1 | 25UEN12GE01A | **General English – 1:** Pre-Intermediate Stream | 5 | 3 |

| Course Objectives (CO) |
|---|
| To develop basic listening, speaking, reading, and writing skills |
| To improve comprehension and fluency in both oral and written communication |
| To learn language rules to create meaningful written and spoken communication |
| To learn and integrate new vocabulary to expand language proficiency |
| To construct grammatically correct sentences and engage in simple conversations |

**UNIT I:** (15 Hours)

| | | | |
|---|---|---|---|
| Listening: | (Skill) | : | Listening for familiar words in stories |
| | (Practice) | : | "The City Mouse and the Country Mouse" |
| Reading: | (Skill) | : | Reading aloud |
| | (Practice) | : | "The Peacock and the Crane" |
| | | | "The Curious Monkey" |
| Grammar: | (Practice) | : | Nouns: Types; Gender |
| Vocabulary: | (Practice) | : | Kinship terms |
| Speaking: | (Skill) | : | Repetition of Minimal Pairs |
| | (Practice) | : | Pronunciation of words |
| Writing: | (Skill) | : | Using capital letters correctly in names, the pronoun 'I,' days, months, languages, nationalities, sentence beginnings, and book titles |
| | (Practice) | : | Capitalisation |

**UNIT II:** (15 Hours)

| | | | |
|---|---|---|---|
| Listening: | (Skill) | : | Listening to identify phrases and sentences |
| | (Practice) | : | "How to Be Happy in Every Situation" |
| Reading: | (Skill) | : | Reading for main ideas |
| | (Practice) | : | "The World is a Mirror" |
| Grammar: | (Practice) | : | Countable and Uncountable Nouns; Singular and Plural Nouns; Pronouns |
| Vocabulary: | (Practice) | : | Human body vocabulary |
| Speaking: | (Skill) | : | Responding to basic questions |
| | (Practice) | : | Simple conversations |
| Writing: | (Skill) | : | Writing personal and academic information with correct spelling |
| | (Practice) | : | Using Correct Spelling in Writing |

**UNIT III:** (15 Hours)

| | | | |
|---|---|---|---|
| Listening: | (Skill) | : | Listening for main ideas |
| | (Practice) | : | "Magic Pot" |
| Reading: | (Skill) | : | Identifying the message of the story |
| | (Practice) | : | Zen story: "Carry On" |
| | | | Zen story: "Harmony" |
| Grammar: | (Practice) | : | Adjectives, Articles and Verbs |
| Vocabulary: | (Practice) | | Vegetables and Fruits |
| Speaking: | (Skill) | | Using 'be' verbs and adjectives to describe people, things and pictures |
| | (Practice) | | Describing People, Things and Pictures |
| Writing: | (Skill) | : | Practising correct punctuation in writing |
| | (Practice) | : | Punctuation |

**UNIT IV:** (15 Hours)

| | | | |
|---|---|---|---|
| Listening: | (Skill) | : | Listening for the main ideas in the story and expressing one's views about them |
| | (Practice) | : | "A Glass of Milk" |
| Reading: | (Skill) | : | Understanding the central idea of the story and sharing personal views |

| | (Practice) | : | "Birbal: The Wise Man" |
|---|---|---|---|
| **Grammar:** | (Practice) | : | Simple Present Tense |
| **Vocabulary:** | (Practice) | : | Plants, Trees and Flowers |
| **Speaking:** | (Skill) | : | Describing daily routines using the simple present tense |
| | (Practice) | : | Describing one's own routine and a friend's routine |
| **Writing:** | (Skill) | : | **Writing simple sentences in response to questions and on a given topic** |
| | (Practice) | : | Writing Simple Sentences |

**UNIT V:**                                                                                   **(15 Hours)**

| | | | |
|---|---|---|---|
| **Listening:** | (Skill) | : | Listening to understand the sequence of ideas |
| | (Practice) | : | A Father and His Son |
| **Reading:** | (Skill) | : | Identifying the implicit idea of the story |
| | (Practice) | : | "The Stone Cutter" |
| **Grammar:** | (Practice) | : | Simple Past Tense |
| **Vocabulary:** | (Practice) | : | Birds, Animals and Insects |
| **Speaking:** | (Skill) | : | Narrating stories, events, or experiences using the simple past tense |
| | (Practice) | : | Narrating a Familiar Story or Past Events |
| **Writing:** | (Skill) | : | Writing a paragraph using a picture by answering questions or describing it. |
| | (Practice) | : | Picture Composition |

| | |
|---|---|
| **Teaching Methodology** | Lectures, task-based activities, audio-visual listening tasks, guided reading and writing exercises, discussions |
| **Assessment Method** | Listening and reading comprehension exercises, verbal presentations, role plays and conversations, writing tasks |

**Books for Study:**
*Seeds of English Skills* by Dr. M. John Britto, Dr. B. Sam Jerome Sharone, and Dr. S. Sajeev.

| CO No. | Course Outcomes | Cognitive Levels (K-Level) |
|---|---|---|
| | **CO-Statements** | |
| **CO-1** | Recognize basic sounds, words, and simple ideas through listening practice. | **K1** |
| **CO-2** | Understand and engage in simple conversations, improving fluency in both oral and written communication. | **K2** |
| **CO-3** | Apply grammatical rules to construct meaningful sentences in spoken and written forms. | **K3** |
| **CO-4** | Integrate new vocabulary into everyday communication to expand language proficiency. | **K4** |
| **CO-5** | Construct grammatically correct sentences and engage in simple conversations, expressing personal experiences and opinions. | **K5** |

| Relationship Matrix | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Semester** | **Course Code** | | **Title of the Course** | | | | | | | **Hours** | **Credits** |
| **1** | **25UEN12GE01A** | | **General English – 1:** Pre-Intermediate Stream | | | | | | | **5** | **3** |
| **Course Outcomes** | **Programme Outcomes (POs)** | | | | | **Programme Specific Outcomes (PSOs)** | | | | | **Mean Scores of COs** |
| | **PO1** | **PO2** | **PO3** | **PO4** | **PO5** | **PSO1** | **PS02** | **PSO3** | **PSO4** | **PSO5** | |
| **CO1** | 2 | 3 | 2 | 3 | 2 | 3 | 2 | 3 | 2 | 2 | **2.4** |
| **CO2** | 3 | 2 | 2 | 3 | 2 | 3 | 2 | 3 | 2 | 3 | **2.5** |
| **CO3** | 3 | 2 | 2 | 2 | 3 | 2 | 2 | 3 | 2 | 2 | **2.3** |
| **CO4** | 3 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | **2.2** |
| **CO5** | 3 | 2 | 3 | 2 | 3 | 2 | 3 | 2 | 3 | 2 | **2.5** |
| | | | | | | | | | **Mean Overall Score** | | **2.38 (High)** |

| Semester | Course Code | Title of the Course | Hours/ Week | Credits |
|----------|-------------|---------------------|-------------|---------|
| 1 | 25UEN12GE01B | **General English – 1:** Intermediate Stream | 5 | 3 |

| Course Objectives |
|---|
| To improve students' ability to listen, speak, read, and write in English through interactive and meaningful activities tailored to real-life contexts. |
| To enable students to use appropriate vocabulary, grammar, and pronunciation to introduce themselves, express opinions, describe people and places, and engage in conversations. |
| To equip students with reading strategies to comprehend texts, and apply structured writing methods to express ideas coherently. |
| To develop students' ability to use common grammar structures accurately and expand their vocabulary through word formation techniques. |
| To help students apply effective learning strategies to enhance their academic and professional success. |

**Unit 1: What's in a Name?** (15 Hours)

| | | |
|---|---|---|
| **1. Listening:** | **(Skill)** | Listening for gist |
| | **(Practice)** | "Not Good with Names" by Cynthia Win (a TED talk) |
| **2. Reading:** | **(Skill)** | Skimming |
| | **(Practice)** | "Eli, the Equation" |
| **3. Grammar:** | **(Practice)** | Nouns |
| **4. Vocabulary:** | **(Practice)** | Forming compound nouns |
| **5. Study Skill:** | | Using online dictionaries |
| **6. Speaking:** | **(Skill)** | Initiating conversations (Greeting – Starting a conversation with new people – Introducing and answering an introduction) |
| | **(Practice)** | Introducing oneself and others in conversations |
| **7. Writing:** | **(Skill)** | Narrating a personal anecdote – Using capitals and end mark punctuations in sentences |
| | **(Practice)** | Guided Composition: The story of my name |

**Unit 2: Family is Forever!** (15 Hours)

| | | |
|---|---|---|
| **1. Listening:** | **(Skill)** | Predicting topics |
| | **(Practice)** | "Tracing Roots, Telling Stories" |
| **2. Reading:** | **(Skill)** | Scanning |
| | **(Practice)** | "Home Lost, Family Found" |
| **3. Grammar:** | **(Practice)** | Pronouns |
| **4. Vocabulary:** | **(Practice)** | Words related to family and relationships |
| **5. Study Skill:** | | Recognising your learning style |
| **6. Speaking:** | **(Skill)** | Talking about your family (family members and relationships, their personalities and your attachment, family routines, and challenges) |
| | **(Practice)** | Talking about your family (in conversations) |
| **7. Writing:** | **(Skill)** | Narrating events in chronological order – Using punctuations in numbers |
| | **(Practice)** | Controlled Composition: My family history |

**Unit 3: Nothing is Better than a Good Friend** (15 Hours)

| | | |
|---|---|---|
| **1. Listening:** | **(Skill)** | Listening for main idea |
| | **(Practice)** | "Nothing is better than a good friend" |
| **2. Reading:** | **(Skill)** | Predicting |
| | **(Practice)** | (Jigsaw reading) Fables about friends: (a) "The Hare with Many Friends" – (b) "The Two Fellows and the Bear" – (c) "The Fox and the Stork" – (d) "The Four Friends and a Hunter" |
| **3. Grammar:** | **(Practice)** | Adjectives |
| **4. Vocabulary:** | **(Practice)** | Forming nouns, adjectives, verbs and adverbs using suffixes |
| **5. Study skill:** | | Setting and prioritising language learning goals |
| **6. Speaking:** | **(Skill)** | Talking about people (Describing people's appearance and their mannerism – Giving your opinion about people – Expressing what you like and dislike in a person) |

| | (Practice) | Delivering a short talk about one's best friend |
|---|---|---|
| **7. Writing:** | **(Skill)** | Describing people (What they wear, how they move and seem to feel, and where they are) Using comma in sentences. |
| | **(Practice)** | Controlled composition: Describing people in given pictures |

## Unit 4: The Inner Me                                                                    (15 Hours)

| | | |
|---|---|---|
| **1. Listening:** | **(Skill)** | Listening to understand pronunciation |
| | **(Practice)** | "The bare necessities" from *The Jungle Book* |
| **2. Reading:** | **(Skill)** | Previewing a text |
| | **(Practice)** | "The Surprising Benefits of Being an Introvert" |
| **3. Grammar:** | **(Practice)** | Articles and Quantifiers |
| **4. Vocabulary:** | **(Practice)** | Forming words with different meanings using prefixes |
| **5. Study skill:** | | Planning a study schedule |
| **6. Speaking:** | **(Skill)** | Asking about feelings – Expressing one's feelings |
| | **(Practice)** | Talking about feelings in different situations |
| **7. Writing:** | **(Skill)** | Describing character traits (Writing about what characters would say or do) Using quotation marks and apostrophes in sentences |
| | **(Practice)** | Controlled Composition: Cruel Cinderella |

## Unit 5: Hometown Appetite                                                              (15 Hours)

| | | |
|---|---|---|
| **1. Listening:** | **(Skill)** | Listening for supporting details |
| | **(Practice)** | "The Village that Raised Me" |
| **2. Reading:** | **(Skill)** | Questioning circles for active reading |
| | **(Practice)** | "Homecoming" |
| **3. Grammar:** | **(Practice)** | Prepositions of time, place and movement |
| **4. Vocabulary:** | **(Practice)** | Changing words from one class to another |
| **5. Study skill:** | | Tracking progress in learning |
| **6. Speaking:** | **(Skill)** | Describing a place |
| | **(Practice)** | Talking about your hometown |
| **7. Writing:** | **(Skill)** | Describing objects – Using colon in sentences |
| | **(Practice)** | Controlled Composition: Writing posts for social media, describing your college campus and classroom |

| | |
|---|---|
| **Teaching Methodology** | Lectures, Demonstrations, Discussions, Peer-Review Tasks, Role-plays, Pair and group activities |
| **Assessment Tools** | Listening and reading comprehension tasks, Individual talks, Role plays, Controlled and guided compositions |

**Books for Study:**

M.S. Xavier Pradheep Singh, J. Amalaveenus, and A. Napoleon. *English and Me* by Viva Books, 2025.

| | Course Outcomes | |
|---|---|---|
| | **Course Outcomes** | |
| **CO No.** | **CO-Statements**<br><br>On successful completion of this course, the students will be able to | **Cognitive Levels (K-Level)** |
| **CO1** | Identify and recall common grammar structures, vocabulary, and pronunciation patterns used in everyday communication. | **K1** |
| **CO2** | Demonstrate comprehension of spoken and written texts by summarising key ideas, identifying main points, and making inferences. | **K2** |
| **CO3** | Use appropriate vocabulary, grammar, and pronunciation to introduce themselves, express opinions, describe people and places, and engage in meaningful conversations. | **K3** |
| **CO4** | Differentiate between various reading and writing strategies, such as skimming, scanning, and structured writing, to effectively interpret and construct texts. | **K4** |
| **CO5** | Critically review written and spoken texts for clarity, coherence, and correctness, providing constructive feedback for improvement. | **K5** |

| Relationship Matrix | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Semester** | **Course Code** | **Title of the Course** | | | | | | | **Hours** | **Credits** | |
| **1** | **25UEN12GE01B** | **General English – 1:** Intermediate Stream | | | | | | | **5** | **3** | |
| **Course Outcomes** | **Programme Outcomes (POs)** | | | | | **Programme Specific Outcomes (PSOs)** | | | | | **Mean Score of COs** |
| | **PO1** | **PO2** | **PO3** | **PO4** | **PO5** | **PSO1** | **PSO2** | **PSO3** | **PSO4** | **PSO5** | |
| **CO1** | 3 | 2.5 | 3 | 3 | 2.5 | 3 | 3 | 2.5 | 2.5 | 3 | 2.8 |
| **CO2** | 2.5 | 3 | 2.5 | 2.5 | 2.5 | 3 | 3 | 2.5 | 2.5 | 3 | 2.7 |
| **CO3** | 3 | 2.5 | 2.5 | 3 | 3 | 2.5 | 2.5 | 2.5 | 3 | 2.5 | 2.7 |
| **CO4** | 2.5 | 2.5 | 2.5 | 3 | 2.5 | 2.5 | 2.5 | 3 | 2.5 | 2.5 | 2.6 |
| **CO5** | 3 | 2.5 | 2.5 | 2.5 | 3 | 2.5 | 2.5 | 2.5 | 3 | 2.5 | 2.65 |
| | | | | | | | | | **Mean Overall Score** | | **2.69 (High)** |

| Semester | Course Code | Title of the Course | Hours/Week | Credits |
|----------|-------------|---------------------|------------|---------|
| 1 | 25UCC13CC01 | **Core Course - 1:** Financial Accounting - 1 | 6 | 5 |

| Course Objectives |
|-------------------|
| To understand the basic accounting concepts and standards. |
| To know the methods of calculating accounting for non-trading concerns. |
| To familiarize with the accounting methods of depreciation and Bills of Exchange. |
| To learn the basis for consignment and joint venture accounts. |
| To gain knowledge on the accounting methods of royalty. |

### UNIT I: Accounting for Trading Concern (18 Hours)

Basic Accounting Concepts and Conventions - Journal, Ledger Accounts - Trial Balance. Final Accounts: Trading, Profit and Loss Account and Balance Sheet with Adjustments.

### UNIT II: Accounting for Trading Concern (18 Hours)

Meaning of Non-Trading Concerns – Components of Final Accounts of Non-Trading Concerns – Receipts and Payments Account versus Income and Expenditure Account - Receipts and Payments Account – Income and Expenditure Account – Balance Sheet- (Simple Problems) Sheet from the given Receipts and Payments Account and other given Adjustments.

### UNIT III: Depreciation and Bills of Exchange (18 Hours)

Depreciation - Accounting methods - Types - Straight Line Method - Diminishing  Balance method - Conversion method. Units of Production Method
Bills of Exchange - Definition - Specimens - Discounting of Bills - Endorsement of Bill - Collection - Noting- Renewal - Retirement of Bill under rebate

### UNIT IV: Consignment and Joint Venture (18 Hours)

Accounting for Consignment and Joint venture - Consignment accounts- Account sales - Direct expenses- Non recurring expenses - Accounting treatment for consignment transactions- Consignor's books- Consignee's book - Joint Venture- Accounting treatment for joint ventures.

### UNIT V: Royalty (18 Hours)

Royalty- Meaning - Minimum Rent - Short Working - Recoupment of Short Working - Leasing - Lessor and Lessee - Sublease - Accounting Methods.

| Teaching Methodology | Demonstration, Black board teaching |
|----------------------|-------------------------------------|
| **Assessment methodology** | MCQ, GD, Seminar, Open book test, Group Project |

**Books for Study:**
1. Jain, S. P., & Narang, K. L. (2021). *Financial accounting- I*, (25th Ed.). Kalyani Publishers.
2. Maheshwari, S. N. (2021). *Financial accounting*, (6th Ed.). Vikas Publications.
3. Grewal, S., & Gupta. (2019) *Advanced accounts,* (12th Ed.). volume 1 S. Chand and Sons.
4. Gupta, R. L., & Gupta, V. K. (2021). *Financial accounting*, (13th Ed.). Sultan Chand.

**Books for Reference:**
1. Arulanandan & Raman. (n.d*). Advanced accountancy*. Himalaya Publications.
2. Tulsian*.* (n.d). *Advanced accounting*, Tata McGraw Hills.
3. Charumathi., & Vinayagam. (n.d) *Financial accounting.* S. Chand and Sons.
4. Goyal & Tiwari. (n.d). *Financial accounting*. Taxmann Publications.
5. Anthony, R. N., Hawkins, D., & Merchant, K. A. (n.d). *Accounting: Text and cases*. McGraw-Hill Education.

**Websites and eLearning Sources:**
1. https://www.slideshare.net/mcsharma1/accounting-for-depreciation-1
2. https://www.slideshare.net/ramusakha/basics-of-financial-accounting

| Course Outcomes | | |
|---|---|---|
| **CO No.** | **CO-Statements**<br>On Successful completion of this course, the students will be able to | **Cognitive Levels (K-Level)** |
| **CO1** | Know the methods of calculating profit for single entry system | **K1** |
| **CO2** | Familiarize with the accounting methods of depreciation and Bills of Exchange | **K2** |
| **CO3** | Learn the basis for calculating business profits entry system | **K3** |
| **CO4** | Gain knowledge on the accounting methods of impart the business knowledge on consignment and joint venture. | **K4** |
| **CO5** | Explore the concepts and standards insurance claims | **K5** |

| Relationship Matrix | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Semester** | **Course Code** | | **Title of the Course** | | | | | **Hours/Week** | | **Credits** | | |
| **1** | **25UCC13CC01** | | **Core Course - 1:** Financial Accounting - 1 | | | | | **6** | | **5** | | |
| **Course Outcomes** | **Programme Outcomes (POs)** | | | | | **Programme Specific Outcomes (PSOs)** | | | | | **Mean Score of COs** | |
| | **PO1** | **PO2** | **PO3** | **PO4** | **PO5** | **PSO1** | **PSO2** | **PSO3** | **PSO4** | **PSO5** | | |
| **CO1** | 3 | 2 | 2 | 3 | 2 | 3 | 3 | 2 | 2 | 3 | **2.5** | |
| **CO2** | 2 | 3 | 2 | 1 | 2 | 3 | 3 | 2 | 2 | 3 | **2.3** | |
| **CO3** | 2 | 2 | 3 | 2 | 3 | 2 | 3 | 2 | 3 | 2 | **2.4** | |
| **CO4** | 1 | 2 | 2 | 3 | 1 | 2 | 3 | 2 | 2 | 3 | **2.1** | |
| **CO5** | 2 | 2 | 2 | 2 | 3 | 1 | 3 | 2 | 2 | 3 | **2.2** | |
| | | | | | | | | | **Mean Overall Score** | | **2.3 (High)** | |

| Semester | Course Code | Title of the Course | Hours | Credits |
|----------|-------------|---------------------|-------|---------|
| 1 | 25UCC13CC02 | **Core Course - 2:** Office Automation | 4 | 2 |

| Course Objectives |
|-------------------|
| To Explain the major components of a computer system, including hardware and software. |
| To Provide hands-on experience in creating, formatting, and editing documents in MS Word. |
| To Develop proficiency in using Excel's built-in functions and formulas for computations. |
| To Provide skills to insert multimedia elements such as audio, video, and images. |
| To Introduce the fundamentals of database management using MS Access. |

## UNIT I: Computer systems                                                   (12 Hours)

Computer systems – Computer and its characteristics – Types of Computers – Major building blocks of Computer System – Computer Hardware – Computer Software - Types of Input devices – Output devices.

## UNIT II: MS Word                                                            (12 Hours)

Menu Bar – Standard Tool Bar – Formatting Tool Bar – File Menu - Entering and Editing Text - Correcting Mistakes - Initial Spelling and Grammar - Correction – Format Menu - Simple Character Formatting - Inserting Numbers and Bullets - Paragraph Formatting - Formatting with Styles - Format Painter – View Menu - Preview for Printing - Controlling View Size - Word's Wizards - Word Themes – Tool Bars.

## UNIT III: MS Excel                                                          (12 Hours)

MS-Excel: Excel Features, spread sheets, workbooks, creating, saving &editing a workbook, renaming sheet, cell entries (numbers, labels, and formulas), spell check, find and replace, Adding and deleting rows and columns Filling series, fill with drag, data sort, Formatting worksheet, Functions and its types, some useful Functions in excel.

## UNIT IV: MS Power point                                                     (12 Hours)

Introduction - Saving presentations in different formats – Using View and Zoom options – Setting up slides and applying layouts – Working with Themes and text manipulation - working with textboxes – Arranging and manipulating objects – Inserting audio and video – Applying animations and transitions

## UNIT V: MS Access                                                           (12 Hours)

Introduction to access database- create a new database- about the access window-tables-lookup wizard-primary keys-field properties-input mask-relationship-referential integrity-forms-queries-sorting records-filters- reports- import an excel file into access.

| Teaching Methodology | Chalk and talk, PPT, Videos, blended learning |
|----------------------|------------------------------------------------|
| Assessment Methods | MCQ, Viva |

**Books for study:**
1. Pradeep K. Sinha, Priti Sinha. (2016). Information Technology theory and practice Edition, PHI Learning private Ltd.
2. Linda Foulkes. Learn Microsoft Office 2019, (2020) Edition, Packt publication Ltd., Mumbai.

**Books for Reference:**
1. Suresh K Basendra (2001). Computers Today,1st Edition, Galgotia publication private Ltd., New Delhi.
2. Jane Calabria and Dorothy Burke (1998). Microsoft Office user Specialist, Power Point 97 Exam Guide,1st Edition, PHI New Delhi.
3. Taxali, R.K (1998). PC Software for WINDOWS Made Simple,1st Edition, Tata McGraw– Hill Publishing Company Limited, New Delhi.

**Website and eLearning Sources:**
1. http://visualintegrators.com/index.php/microsoft-office-automation.php
2. https://www.workato.com/the-connector/office-automation/
3. https://www.scribd.com/document/535815541/Introduction-to-Office-Automation
4. https://en.wikipedia.org/wiki/Office_automation

| | Course Outcomes | |
|---|---|---|
| **CO No** | **CO- Statements** | **Cognitive Level (K- level)** |
| | On Successful completion of this course, the students will be able to | |
| **CO1** | Understand the fundamental concepts of computer systems and their characteristics. | **K1** |
| **CO2** | Explore and use various menus, toolbars, and themes to enhance document presentation. | **K2** |
| **CO3** | Develop and manage workbooks and spreadsheets for data organization and analysis. | **K3** |
| **CO4** | Create and apply themes, layouts, and text formatting techniques to enhance presentation aesthetics. | **K4** |
| **CO5** | Understand and create relational databases using MS Access. | **K5** |

| | | Relationship Matrix | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Semester** | | **Course Code** | | **Title of the Course** | | | **Hours** | **Credits** | | | |
| **1** | | **25UCC13CC02** | | **Core Course - 2:** Office Automation | | | **4** | **2** | | | |
| **Course Outcomes** | **Programme Outcomes (POs)** | | | | | **Programme Specific Outcomes (PSOs)** | | | | | **Mean Scores of COs** |
| | **PO1** | **PO2** | **PO3** | **PO4** | **PO5** | **PSO1** | **PSO2** | **PSO3** | **PSO4** | **PSO5** | |
| **CO-1** | 2 | 3 | 2 | 1 | 2 | 2 | 3 | 2 | 1 | 2 | 2.0 |
| **CO-2** | 3 | 3 | 3 | 2 | 1 | 3 | 2 | 3 | 2 | 2 | 2.4 |
| **CO-3** | 2 | 2 | 3 | 2 | 2 | 2 | 3 | 2 | 2 | 3 | 2.3 |
| **CO-4** | 3 | 3 | 2 | 1 | 2 | 3 | 2 | 3 | 1 | 2 | 2.2 |
| **CO-5** | 2 | 3 | 3 | 2 | 2 | 2 | 3 | 3 | 2 | 1 | 2.4 |
| | | | | | | | | | **Mean Overall Score** | | **2.26 (High)** |

| Semester | Course Code | Title of the Course | Hours | Credits |
|---|---|---|---|---|
| **1** | **25UCC13CP01** | **Core Practical - 1:** Office Automation | **3** | **2** |

| Course Objectives |
|---|
| To impart Practical Training in Word Processing software. |
| To use Spreadsheet software for Data Management. |
| To apply functions, charts, and pivot tables for data analysis and visualization. |
| To develop presentation skills using presentation Software. |
| To design and construct databases to store, extract, and analyze the data. |

**EXERCISES**

1. To prepare a Bio-data.
2. To prepare a document in newspaper formats with bullets, footers and headers.
3. To create and manipulate a table.
4. To prepare a business letter for more than one company using mail merge.
5. To prepare a student mark list using Excel.
6. To manipulate a spreadsheet using built in functions.
7. To work with charts using MS-Excel.
8. To prepare a presentation with different animation effects using MS-PowerPoint.
9. To create database using MS-Access.
10. To generate a Form and Report using MS-Access.

| Teaching Methodology | Practical Lab, video demonstration |
|---|---|
| **Assessment Methodology** | Practical examination |

| Course Outcomes | | |
|---|---|---|
| **CO No.** | **CO- Statements** <br> On successful completion of the project students will be able to | **Cognitive Levels (K- level)** |
| **CO1** | Create, format, edit, and manage documents using word processing software like Microsoft Word | **K1** |
| **CO2** | Understand formulas, functions, charts, and pivot tables in spreadsheet applications | **K2** |
| **CO3** | Apply Spreadsheet Functions for Data Management | **K3** |
| **CO4** | Design professional presentations with multimedia elements, animations, and transitions using PowerPoint | **K4** |
| **CO5** | Create and manipulate simple databases using Microsoft Access | **K5** |

| Relationship Matrix | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Semester | Course Code | | Title of the Course | | | | | | Hours | Credits |
| 1 | 25UCC13CP01 | | Core Practical - 1: Office Automation | | | | | | 3 | 2 |
| **Course Outcomes** | **Programme Outcomes (POs)** | | | | | **Programme Specific Outcomes (PSOs)** | | | | **Mean Scores of Cos** |
| | **PO1** | **PO2** | **PO3** | **PO4** | **PO5** | **PSO1** | **PSO2** | **PSO3** | **PSO4** | **PSO5** | |
| **CO1** | 2 | 3 | 2 | 2 | 2 | 3 | 3 | 2 | 1 | 2 | 2.2 |
| **CO2** | 3 | 2 | 2 | 2 | 1 | 3 | 3 | 3 | 2 | 2 | 2.4 |
| **CO3** | 2 | 3 | 3 | 2 | 2 | 2 | 3 | 3 | 2 | 2 | 2.4 |
| **CO4** | 3 | 3 | 3 | 1 | 2 | 3 | 3 | 3 | 1 | 2 | 2.4 |
| **CO5** | 2 | 2 | 3 | 2 | 2 | 2 | 3 | 3 | 2 | 2 | 2.4 |
| **Mean Overall Score** | | | | | | | | | | | **2.36 (High)** |

| Semester | Course Code | Title of the Course | Hours | Credits |
|----------|-------------|---------------------|-------|---------|
| 1 | 25UCC13AC01 | **Allied Course - 1:** Business Environment | 6 | 4 |

| Course Objectives |
|-------------------|
| To understand the micro and macro environment of the business. |
| To elucidate various concepts, and elements of business economics. |
| To analyse the demand functions in business. |
| To analyse the supply and production functions in business. |
| To understand the basic management concepts and functions. |

## UNIT - I: Ethical Business environment from Ancient and Modern Indian Texts
**(18 Hours)**

Introduction of business environment in Arthashastra**,** Thirukkural, Bhagavad Gita. Indigenous Economic Systems: Swadeshi Movement and self-reliant business models, Guilds. Sustainable Business Practices: Vaastu Shastra **–** Panchmahabhuta **-** Traditional Indian Agriculture & Ayurveda-based industries. Meaning of business environment, Types of Business Environment – Internal and External, Micro-Environment and Macro- Environment of business; Competitive analysis of Business; Environmental Analysis - Scanning, Monitoring, Forecasting, Assessment; Limitation of Environment Analysis.

## UNIT - II: Introduction to Economics                    (18 Hours)
Definition - Scope and Nature – Concepts applied in Business Economics - Contribution of Economics to managerial functions - Micro and Macroeconomics applied to business environment Role and responsibilities of business economists. The Economic System: Capitalism & Mixed Economic System - Business Cycle.

## UNIT - III: Analysis of Demand                    (18 Hours)
Analysis of demand: Meaning of demand – the basis of consumer demand – Utility – Total Utility - Marginal Utility - Law of Diminishing Marginal Utility – Cardinal and Ordinal Conceptof Utility – Law of Demand - Shift in demand curve - Meaning and nature of indifference curve - Shift in indifference curve and properties of indifference curve – Consumer equilibrium – Effect of change in price & consumption - Income & Consumer demand and substitution & Price changes.

## UNIT-IV: Supply and Production:                    (18 Hours)
Meaning of Supply – Determinants - Law Schedule and supply curve elasticity of supply - Production - Function- Laws of Production – Iso-Quants – Pricing - Market structure and pricing decision – Pricing under perfect competition – Characteristic and Price determination – Monopoly – Kinds – Causes – Price Output Decision and price discrimination - Monopolistic competition – Price output decision in short and Long run – Equilibrium - Oligopoly – Definition - Sources and characteristics – Price rigidity and Price Leadership.

## UNIT - V: Introduction to Management                    (18 Hours)
Meaning- Definitions - Nature and Scope - Levels of Management - Importance – Functions - Management Vs. Administration - Management: Science or Art -Evolution of Management Thoughts - F. W. Taylor, Henry Fayol, Peter F. Drucker, Elton Mayo - Trends and Challenges of Management. Managers - Qualification - Duties and Responsibilities.

| Teaching Methodology | PPT, Videos and Case Studies |
|----------------------|------------------------------|
| Assessment Methods | MCQ, GD, Seminar, Open book test, Group Project |

**Books for Study:**
1. Aswathappa. K, (2022) "*Essentials of Business Environment*", Himalaya Publishing House; Mumbai, ISBN-10. 9350244748.
2. Sundaram, K.P.M & Sundaram, E.N. (2022). *Business Economics*, Sultan & Chand and   Sons, New Delhi.
3. Samuelson, P.A., Nordhaus, W.D. (2021). *Microeconomics,* McGraw - Hill Education.
4. Mankiw, N. (2018). *Principles of Micro Economics*, Cengage Learning.
5. Maddala, G.S. & Miller, E. (2022), *Microeconomics: Theory and Applications*, McGraw – Hill Education.
6. Prasad, L. M. (2020). *Principles of management*. S. Chand &Sons Co. Ltd.

7. Gupta, C.B, & L.M. Prasad. (2022). *Principles of Management*. S. Chand & Sons Co. Ltd. New Delhi.

**Books for Reference:**
1. Cherunilam, F. (2010*). Business Environment*, Himalaya Publishing House, New Delhi.
2. Pindyck, R.S., Rubinfeld, D. L., & Mehta, D. L. (2012). *Microeconomics,* Pearson Education.
3. Singh, R. (2023). *Indian Economy*. McGraw Hill.
4. Puri, V. K., & Mishra, S. K. (2015). *Indian Economy.* Himalaya Publishing house
5. Sundhar, K. (2014). *Principles of Management*, Vijay Nichole Imprints Limited
6. Tripathi, P.C. & Reddy, P.N. (2020). *Principles of Management*. Tata Mc Graw, Hill.Delhi.

**Websites and eLearning Sources:**
1. https://www.managementstudyguide.com/manpower-planning.htm.
2. https://www.icsi.edu/media/website/Business%20Economics%20(FndProg).pdf.
3. https://dea.gov.in/
4. https://icai.org/post.html?post_id=13831
5. https://www.businessmanagementideas.com/notes/managementnotes//coordination/2139

| Course Outcomes | | |
|---|---|---|
| **CO No.** | **CO-Statements**<br>On successful completion of this course, the students will be able to | **Cognitive Levels (K-Level)** |
| **CO1** | Understand the components of Business Environment. | **K1** |
| **CO2** | Elucidated the various nature, concepts, and elements of business economics. | **K2** |
| **CO3** | Students learn about demand functions in business. | **K3** |
| **CO4** | Students learn about Supply and production functions in business. | **K4** |
| **CO5** | Students learn about the principles of management. | **K5** |

| Relationship Matrix | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| **Semester** | **Course Code** | | **Title of the Course** | | | | | | **Hours** | **Credits** |
| **1** | **25UCC13AC01** | | **Allied Course - 1:** Business Environment | | | | | | **6** | **4** |
| **Course Outcomes** | **Programme Outcomes (POs)** | | | | | **Programme Specific Outcomes (PSOs)** | | | | **Mean Score of COs** |
| | **PO1** | **PO2** | **PO3** | **PO4** | **PO5** | **PSO1** | **PSO2** | **PSO3** | **PSO4** | **PSO5** | |
| **CO1** | 3 | 2 | 2 | 3 | 2 | 3 | 3 | 2 | 2 | 3 | **2.5** |
| **CO2** | 2 | 3 | 2 | 1 | 2 | 3 | 3 | 2 | 2 | 3 | **2.3** |
| **CO3** | 2 | 2 | 3 | 2 | 3 | 2 | 3 | 2 | 3 | 2 | **2.4** |
| **CO4** | 1 | 2 | 2 | 3 | 1 | 2 | 3 | 2 | 2 | 3 | **2.1** |
| **CO5** | 2 | 2 | 2 | 2 | 3 | 1 | 3 | 2 | 2 | 3 | **2.2** |
| | | | | | | | | | **Mean Overall Score** | | **2.3 (High)** |

| Semester | Course Code | Title of the Course | Hours/Week | Credits |
|---|---|---|---|---|
| 1 | 25UHE14VE01 | **Value Education - 1:** Essentials of Humanity | 2 | 1 |

| Course Objectives |
|---|
| To identify one's own potentials, strengths and weaknesses |
| To identify various challenges (physical, emotional and social) in adolescence |
| To consciously overcome one's challenges and move towards self-esteem |
| To maximize one's own potential in enabling holistic development |
| To assimilate human values comprehensively |

**UNIT I: Value Education** (6 Hours)

Introduction to values - Characteristics and Roots of Values - Value Education & Value Clarification - Moral Characters - Kinds of Values - Objectives of Values

**UNIT II: Human Personality** (6 Hours)

Personality: Introduction, Traits, Theories, Integration & Factors influencing the development of personality - Discovering self - Defense Mechanism -Power of positive thinking - Why worry?

**UNIT III: Human Development** (6 Hours)

Areas of Development: Physical, Intellectual, Emotional, Social Development, Moral & Spiritual development – Practical Sessions on Health and Wellness

**UNIT IV: Responsible Parenthood** (6 Hours)

Human Sexuality - Marriage and Family - Sex and Love - Characteristics of Responsible parent - Causes of Marriage disharmony - Art of wise parenting

**UNIT V: Gender Equality and Empowerment** (6 Hours)

Historical perspective - Women in Independence struggle - Women in Independent India - Education & Economic development - Crimes against Women - Women rights - Time-line of Women achievements in India

| Teaching Methodology | Power point |
|---|---|
| Assessment Methods | Seminars, Reports, Group Discussion, Online Tests, Assignments |

**Book for Study:**

1. Department of Human Excellence. (2023). *Essentials of Humanity.* St. Joseph's College.

**Books for Reference:**

1. Alex, K. (2009). *Soft Skills.* S. Chand.
2. Norman Vincent Peale (1952). *The Power of Positive Thinking Norman Vincent Peale.* New York Times
3. Kalam, A.A. P. J. (2012). *You Are Unique.* Punya Publishing.

**Websites and eLearning Sources:**

1. http://livingvalues.net. Accessed 05 March 2021.
2. https://www.psychologytoday.com/us/basics/defense-mechanisms.Accessed 12 March 2025.
3. http://www.apa.org/topics/personality#. Accessed 05 March 2021.
4. http://www.peacecorps.gov/educators/resources/global-issues-gender-equaligy-and-womens-empowerment/. Accessed 05 March 2021.
5. https://www.nextias.com/blog/women-empowerment/Accessed 12 March 2025.

| | Course Outcomes | |
|---|---|---|
| **CO No.** | **CO-Statements** On successful completion of this course, students will be able to | **Cognitive Levels (K - Level)** |
| **CO1** | Recall the prescribed values and the dimensions. | **K1** |
| **CO2** | Examine themselves by learning the developmental changes happening in the course of their lifetime. | **K2** |
| **CO3** | Apply the trained values in the day-to-day life. | **K3** |

| Relationship Matrix | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Semester** | **Course Code** | | **Title of the Course** | | | | | | | **Hours** | **Credits** |
| 1 | 25UHE14VE01 | | Value Education - 1: Essentials of Humanity | | | | | | | 2 | 1 |
| **Course Outcomes** | **Programme Outcomes (POs)** | | | | | **Programme Specific Outcomes (PSOs)** | | | | | **Mean Score of COs** |
| | **PO1** | **PO2** | **PO3** | **PO4** | **PO5** | **PSO1** | **PSO2** | **PSO3** | **PSO4** | **PSO5** | |
| **CO1** | 3 | 3 | 3 | 3 | 2 | 3 | 3 | 2 | 3 | 3 | **2.8** |
| **CO2** | 3 | 2 | 2 | 3 | 3 | 2 | 3 | 3 | 2 | 2 | **2.5** |
| **CO3** | 2 | 3 | 3 | 3 | 2 | 3 | 3 | 3 | 3 | 3 | **2.8** |
| | | | | | | | | | **Mean Overall Score** | | **2.7 (High)** |

| Semester | Course Code | Title of the Course | Hours/Week | Credits |
|----------|-------------|---------------------|------------|---------|
| *2* | *25UTA21GL02* | பொதுத்தமிழ் – 2: General Tamil - 2 | *4* | *3* |

| கற்றலின் நோக்கங்கள் (Course Objectives) |
|---|
| காப்பியங்களின் தோற்றம், வரையறை, வகைகள் ஆகியவற்றை அறிந்து கொள்ளல் |
| பெருங்காப்பியம், சிறுகாப்பியம் இடையேயான வேறுபாட்டைக் கண்டறிதல் |
| சைவ வைணவ சமயப் பாடல்களில் சிறப்பினை ஒப்பிடுதல் |
| காப்பியங்கள் வெளிப்படுத்தும் விழுமியங்களையும் உணர்தல் |
| சமூகத்திற்கும், காப்பியத்திற்குமான பிணைப்புகள் குறித்துத் தெரிந்துகொள்ளுதல் |

**அலகு-1** (12 மணி நேரம்)

சிலப்பதிகாரம் - ஆய்ச்சியர் குரவை

மணிமேகலை – ஊர் அலர் உரைத்த காதை

இலக்கிய வரலாறு – சைவம் வளர்த்த தமிழ் முதல் புராணங்கள் முடிய

இலக்கணம் – அகப்பொருள் இலக்கணம்

**அலகு-2** (12 மணி நேரம்)

திருநாவுக்கரசர் – திருவதிகை வீரட்டானம்

(கூற்றாயினவாறு எனத் தொடங்கும் முதல் 10 பாடல்கள்)

திருவாசகம் - அடைக்கலப்பத்து

(செழுக்கமலத் திரளனின் எனத் தொடங்கும் முதல் 10 பாடல்கள்)

திருமந்திரம் – மாகேசுர பூசை (11 பாடல்கள்)

சிவவாக்கியர் பாடல்கள் (15 பாடல்கள்)

பாடல் எண்கள் – 16,22,27,33,34,35,37,38,47,81,91,225,237,242,495

**அலகு-3** (12 மணி நேரம்)

பெரியாழ்வார் திருமொழி – திருப்பல்லாண்டு – தாலப்பருவம் (10 பாடல்கள்

திருமங்கையாழ்வாரின் பெரிய திருமொழி – திருவரங்கம் -1 (10 பாடல்கள்)

கம்பராமாயணம் – கங்கை காண் படலம் - (தேர்ந்தெடுக்கப்பட்ட 35 பாடல்கள்)

பாடல் எண்கள்: 1, 4, 5, 6, 7, 8, 9, 10, 12, 13, 14, 15, 16, 22, 24, 25, 26, 27, 29, 30, 32,33,35,39,40,41,42,43,47,62,64,65,67,69,70

நற்றமிழ்க் கோவை – முதல் மூன்று கட்டுரைகள்.

**அலகு-4** (12 மணி நேரம்)

சீறாப்புராணம் – நதி கடந்த படலம் – 1 முதல் 31 முடிய உள்ள பாடல்கள்

கள்வரை நதிமறித்த படலம் – 1 முதல் 16 முடிய உள்ள பாடல்கள்

இலக்கணம் – புறப்பொருள் இலக்கணம்

இலக்கிய வரலாறு – தமிழ் இலக்கண நூல்கள் முதல் சிற்றிலக்கியங்கள் முடிய

**அலகு-5** (12 மணி நேரம்)

வீரமாமுனிவரின் தேம்பாவணி – (காசா) காசை சேர் படலம்

(1 முதல் 50 முடிய உள்ள பாடல்கள்)

சீனயி (சீனாய்) - மாமலை காண்படலம் -(1 முதல் 56 முடிய உள்ள பாடல்கள்)

நற்றமிழ்க் கோவை – இறுதி மூன்று கட்டுரைகள்.

| கற்பித்தல் முறை (Teaching Methods) | விரிவுரை (Lecture), காணொளிக் காட்சி (Videos), விளக்கக் காட்சி (PPT presentation) |
|---|---|
| மதிப்பீட்டு முறைகள் (Assessment Pattern) | இயங்கலைத்தேர்வு (Online Test), நூல் நோக்குத் தேர்வு (open book test) ஒப்படைவு (Assignment), வினாடி வினா (Quiz), கருத்துரை (Seminar) |

**பாடநூல்கள்:**

1. பொதுத்தமிழ் (2025), தமிழாய்வுத்துறை, தூய வளனார் கல்லூரி
2. நற்றமிழ்க் கோவை - கட்டுரைத்தொகுப்பு (2025), தமிழாய்வுத்துறை வெளியீடு, தூய வளனார் கல்லூரி

**Websites and eLearning Sources:**

1. *https://www.tamiluniversity.ac.in/english/library2-/digital-library/*
2. *https://www.tamilvu.org/ta/library-l3100-html-l3100pl1-132372*
3. *https://www.tamilvu.org/ta/courses-degree-p202-p2021-html-p202121-28011*
4. *https://www.chennailibrary.com/vaishnava/naalayiradivyaprabhandham.html*

5. *https://www.tamilvu.org/ta/library-l4310-html-l4310por-141616*
6. *https://www.tamilvu.org/slet/l4100/l4100pd2.jsp?bookid=80&pno=287*

### Course Outcomes

| CO No. | CO–Statements இப்பாடத்தின் நிறைவில் மாணவர்கள் | Cognitive Levels (K –Levels) |
|--------|---------------------------------------------|------------------------------|
| CO–1 | பழந்தமிழர் வாழ்வியலையும் பன்முக ஆளுமைகளையும் அறிவர் | K1 |
| CO–2 | தமிழரின் பல்துறை அறிவு, மரபு போன்றவற்றை அறிந்து கொள்வர். | K2 |
| CO–3 | பெருங்காப்பிய மரபிற்குள் வரும் இலக்கியங்களை அடையாளம் காண்பதோடு அவற்றை விளக்கும் திறனையும் பெறுவர். | K3 |
| CO–4 | புராண இதிகாச மரபுகளிலிருந்து, காப்பியம் என்னும் புதிய இலக்கிய வடிவம் உருவான விதத்தை மதிப்பிடுவர். | K4 |
| CO–5 | இலக்கிய வரலாறு, இலக்கணம், காப்பியங்கள் ஆகியவற்றைக் கற்பதன் வழி போட்டித் தேர்வுகளை எதிர்கொள்ளும் திறன் பெறுவர் | K5 |

| Relationship Matrix | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Semester** | **Course Code** | | **Title of the Course** | | | | | | | **Hours** | **Credits** |
| *2* | *25UTA21GL02* | | பொதுத்தமிழ் – 2: *General Tamil - 2* | | | | | | | *4* | *3* |
| **Course Outcomes↓** | **Programme Outcomes (PO)** | | | | | **Programme Specific Outcomes (PSO)** | | | | | **Mean Scores of COs** |
| | **PO1** | **PO2** | **PO3** | **PO4** | **PO5** | **PSO1** | **PSO2** | **PSO3** | **PSO4** | **PSO5** | |
| *CO-1* | 2 | 3 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 2.8 |
| *CO-2* | 3 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 2 | 2 | 2.4 |
| *CO-3* | 2 | 3 | 1 | 3 | 1 | 3 | 3 | 3 | 1 | 2 | 2.2 |
| *CO-4* | 3 | 3 | 2 | 3 | 1 | 3 | 3 | 3 | 1 | 3 | 2.5 |
| *CO-5* | 3 | 3 | 2 | 2 | 3 | 3 | 3 | 2 | 2 | 2 | 2.5 |
| | | | | | | | | | | *Mean Overall Score* | **2.48 (High)** |

| Semester | Course Code | Title of the Course | Hours/Week | Credits |
|----------|-------------|---------------------|------------|---------|
| 2 | 25UFR21GL02 | Language French – 2 | 4 | 3 |

| Course Objectives |
|-------------------|
| Develop Communicative Competence in French enabling students to engage in simple, real-life conversations and interactions |
| Master Fundamental Grammar and Vocabulary by understanding and applying essential grammatical structures in context |
| Explore Francophone Culture and Civilization by integrating cultural elements of French-speaking regions |
| Enhance Practical Language Use in Everyday Situations |
| Express Ideas in Different Contexts Using Appropriate Tenses |

**UNIT I**                                                                  **(12 Hours)**
1. Titre - Qu'est-ce qu'on fait aujourd'hui ?
2. Lexique –l'heure, les activités quotidiennes, la description physique
3. Grammaire –les verbes pronominaux au présent, le passé récent, la fréquence
4. Production orale- demander l'heure, proposer une sortie
5. Production écrite - présenter ses activités quotidiennes, décrire une personne

**UNIT II**                                                                 **(12 Hours)**
6. Titre - Chez -moi
7. Lexique – le logement, les meubles, les pièces, l'équipement
8. Grammaire – le passe compose avec avoir, les pronoms COD
9. Production orale- s'informer sur un logement
10. Production écrite - expliquer un problème domestique, écrire une annonce pour un logement

**UNIT III**                                                                **(12 Hours)**
11. Titre - En forme
12. Lexique – les parties du corps, les maladies, les médicaments, les sports
13. Grammaire –Le passé composé avec être, le pronom 'y',
14. Production orale- parler de sa santé, exprimer une émotion positive
15. Production écrite - Donner un conseil, exprimer son accord ou son désaccord

**UNIT IV**                                                                 **(12 Hours)**
16. Titre - Bonne vacances
17. Lexique – les destinations, l'hébergement, la réservation, la nature
18. Grammaire – la comparaison, les verbes impersonnels à l'imparfait comme c'était
19. Production orale- réserver une chambre a l'hôtel, décrire une ville ou un paysage
20. Production écrite - réaliser une brochure touristique, écrire une carte postale

**UNIT V**                                                                  **(12 Hours)**
21. Titre - Au travail
22. Lexique – les études, les disciplines, les lieux de travail, les taches
23. Grammaire – la durée, les pronoms relatifs
24. Production orale- parler de ses études et son projet professionnel
25. Production écrite - comparer le système scolaire français et indien
26. Indian knowledge system–Highlighting on Gurukulam Education System that focuses on traditional teacher-student relationships, oral learning methods, and holistic education while discussing education systems in India vs. France (5%)

| Teaching Methodology | Visual-Linguistic Learning, Descriptive & Interpretative Learning, experiential learning, The Lexical Approach, Differentiated Instruction |
|---|---|
| **Assessment Methods** | *Role -play:* A mock phone call on hotel reservation, discuss daily routines, housing, and health. (Rubric – graded on grammatical accuracy, and use of appropriate vocabulary) <br> *Picture description activity:* Describe a landscape or travel destination shown in a picture. (Rubric – Assessed on descriptive abilities and vocabulary use) <br> *Experimental learning task:* Doctor-patient conversation about a health issue, Conduct a mock interview about career plans. (Rubric – Assessed on real-life application of language skills) <br> *Project based assessment*: Create a travel brochure for a French-speaking destination, make a poster comparing education in France and India (Rubric – Assessed on Application of language skills in a creative way) <br> *Written assessment*: Write a short daily routine using time expressions, write a postcard describing a recent trip (Rubric – Assessed on ability to write structured texts related to themes) |

**Books for Study:**
1. Mensdorff - Pouilly, L., Opatski, S., Petitmengin, V., Pons, S., Sperandio, C., Djimli, H., & Veldeman - Abry, J. (2022). *Édito A1: Méthode de français* (2nd ed.). Didier FLE, Hatier. (p.87-p.165)

**Books for Reference:**
1. Dauda, P., Giachino, L., & Baracco, C. (2020). *Génération A1*. Didier.
2. Mérieux, R., &Loiseau, Y. (2012). *Latitudes A1*. Didier.

**Websites and eLearning Sources:**
1. https://www.podcastfrancaisfacile.com
2. https://www.flevideo.com
3. https://savoirs.rfi.fr/fr
4. https://www.french4me.net/
5. https://apprendre.tv5monde.com/en

| Course Outcomes | | |
|---|---|---|
| **CO No.** | **CO–Statements** <br> On successful completion of this course, students will be able to | **Cognitive Levels (K –Levels)** |
| **CO1** | Talk about daily routines, tell the time, describe people, and propose social outings using appropriate vocabulary and verb structures. | **K1** |
| **CO2** | Inquire about housing, describe household items, explain domestic issues, and write advertisements or announcements for accommodations. | **K2** |
| **CO3** | Describe body parts, discuss health conditions, give advice, express emotions, and use past tense structures to narrate past experiences. | **K3** |
| **CO4** | Make hotel reservations, describe destinations and landscapes, compare experiences, and write postcards or travel brochures. | **K4** |
| **CO5** | Discuss education, career plans, and workplace responsibilities while comparing educational systems in France and India. | **K5** |

| | Relationship Matrix | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| **Semester** | **Course Code** | | **Title of the Course** | | | | **Hours** | | **Credits** | |
| **2** | **25UFR21GL02** | | Language French – 2 | | | | **4** | | **3** | |
| **Course Outcomes** | **Programme Outcomes (POs)** | | | | | **Programme Specific Outcomes (PSOs)** | | | | | **Mean Score of Cos** |
| | **PO1** | **PO2** | **PO3** | **PO4** | **PO5** | **PSO1** | **PSO2** | **PSO3** | **PSO4** | **PSO5** | |
| **CO1** | 2 | 2 | 1 | 1 | 2 | 2 | 2 | 3 | 2 | 2 | 1.9 |
| **CO2** | 2 | 2 | 2 | 3 | 1 | 3 | 3 | 2 | 3 | 3 | 2.4 |
| **CO3** | 2 | 3 | 2 | 1 | 2 | 2 | 1 | 3 | 2 | 1 | 1.9 |
| **CO4** | 3 | 2 | 2 | 2 | 2 | 3 | 2 | 1 | 2 | 3 | 2.2 |
| **CO5** | 3 | 3 | 3 | 2 | 3 | 2 | 3 | 2 | 3 | 2 | 2.6 |
| | | | | | | | | | **Mean Overall Score** | | **2.2 (High)** |

| Semester | Course Code | Title of the Course | Hours/Week | Credits |
|----------|-------------|---------------------|------------|---------|
| 2 | 25UHI21GL02 | Language Hindi - 2 | 4 | 3 |

| Course Objectives |
|-------------------|
| To understand the basics of Hindi Language |
| To make the students to be familiar with the Hindi words |
| To enable the students to develop their effective communicative skills in Hindi |
| To introduce the socially relevant subjects in Modern Hindi Literature |
| To empower the students with globally employable soft skills |

## UNIT I                                                        (12 Hours)
1. Moun hi Manthra Hay
2. Letter Writing - Chutti Patra
3. Bakthikal - Namakarn
4. Sarkari Kariyalayom Ka Naam

## UNIT II                                                       (12 Hours)
5. Baathcheeth - Aspathal Mein
6. Letter Writing - Rishthedarom ko Patra
7. Bakthikal - Samajik Paristhithiyam
8. Kriya

## UNIT III                                                      (12 Hours)
9. Premchand
10. Kriya visheshan
11. Letter Writing - Naukari Keliye Avedan Patra
12. Bakthikal - Sahithyik Paristhithiyam

## UNIT IV                                                       (12 Hours)
13. Kabeer ke Dohae
14. Samas
15. Letter Writing - Kitab Maangne Keliye Patra
16. Bakthikal -  Salient Features, Main Division

## UNIT V                                                        (12 Hours)
17. Anuvad
18. Sandhi
19. Bakthikal - Visheshathayem
20. Apathit Gadyansh

| Teaching Methodology | Peer Instruction Exercise, Videos, PPT, Quiz, Group Discussion |
|----------------------|----------------------------------------------------------------|
| Assessment Methods | Group Discussion, Seminar, Snap Test |

**Books for Study:**
1. Viswanath Tripaty. *(2021). Kuchh Kahaniyan*, Rajkamal Prakashan Pvt. Ltd.
2. Kamathaprasad Gupth, M. (2020). *Hindi Vyakaran*. Anand Prakashan.
3. Dr. Sadananth Bosalae*. (2020). kavya sarang*, Rajkamal Prakashan.

**Books for Reference:**
1. Acharya Ramchandra Shukla. (2021). *Hindi Sahitya Ka Itihas*. Prabhat Prakashan.
2. Krishnakumar Gosamy. (2023).  *Anuvad vigyan ki Bhumika*. Rajkamal Prakashan.
3. Aravind Kumar. (2022). *Sampoorna Hindi Vyakaran our Rachana*, Lucent publisher.
4. Lakshman Prasad Singh. (2021). *Kavya ke sopan*. Bharathy Bhavan Prakashan.

**Websites and e-Learning Sources:**
1. https://hindigrammar.in/sandhi.html
2. https://www.successcds.net/class10/hindi/samas-in-hindi

3. https://mycoaching.in/kriya-ke-bhed-verb-in-hindi
4. https://namastesensei.in/adverb-in-hindi-examples/
5. https://viahindi.in/hindi-vyakaran/sandhi-paribhasha-prakar-or-udaharan

| | Course Outcomes | |
|---|---|---|
| | **CO–Statements** | **Cognitive Levels (K-Levels)** |
| **CO No.** | On successful completion of the course, the student will acquire thelisted skills | |
| **CO1** | Find out the Terms & Expressions related to letter writing. | **K1** |
| **CO2** | Providing knowledge of Letter writing in Hindi. | **K2** |
| **CO3** | Complete the sentences in Hindi using basic grammar. | **K3** |
| **CO4** | Analyze the social & political conditions of Devotional period in Hindi Literature. | **K4** |
| **CO5** | Justify the human values stressed on the works of Hindi writers | **K5** |

| Relationship Matrix | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| **Semester** | **Course Code** | | **Title of the Course** | | | **Hours/ week** | | **Credits** | | |
| **2** | **25UHI21GL02** | | Language Hindi – 2 | | | **4** | | **3** | | |
| **Course Outcomes (Cos)** | **Programme Outcomes (Pos)** | | | | | **Programme Specific Outcomes (PSOs)** | | | | **Mean Score of Cos** |
| | **PO1** | **PO2** | **PO3** | **PO4** | **PO5** | **PSO1** | **PSO2** | **PSO3** | **PSO4** | **PSO5** | |
| **CO1** | 2 | 3 | 3 | 2 | 2 | 3 | 3 | 3 | 2 | 2 | 2.5 |
| **CO2** | 1 | 3 | 1 | 2 | 2 | 3 | 3 | 3 | 2 | 3 | 2.3 |
| **CO3** | 3 | 2 | 3 | 2 | 2 | 3 | 2 | 3 | 2 | 2 | 2.4 |
| **CO4** | 2 | 3 | 3 | 1 | 3 | 2 | 3 | 2 | 1 | 2 | 2.2 |
| **CO5** | 3 | 2 | 2 | 2 | 3 | 2 | 3 | 2 | 3 | 2 | 2.4 |
| | | | | | | | | **Mean Overall Score** | | | **2.36 (High)** |

| Semester | Course Code | Title of the Course | Hours/Week | Credits |
|----------|-------------|---------------------|------------|---------|
| 2 | 25USA21GL02 | Language Sanskrit - 2 | 4 | 3 |

| Course Objectives |
|-------------------|
| To bring out the salient aspects of classical Sanskrit poetry |
| To introduce court epics in Sanskrit |
| To train students in declensions of pronouns in Sanskrit |
| To coach the students in the conjugation patterns of verbs in Sanskrit |
| To offer coaching in morpho-phonemic rules and their applications in Sanskrit |

**UNIT I**                                                                  **(12 Hours)**

Asmathi usmath tat kim (MFN) sarva naama sabdaha

**UNIT II**                                                                 **(12 Hours)**

Sandhi Niyamaah Abhyaash (Guna, Visarga, Dirgha, Vrddhi)

**UNIT III**                                                               **(12 Hours)**

Lang lakaarah Kriyapadaani Prayoga Vivaranam

**UNIT IV**                                                                **(12 Hours)**

Raguvamsaha Pratama sargaha (1 –15 slokas)

**UNIT V**                                                                 **(12 Hours)**

 Suvacanani Vakya Prayoga Vivaranam

| Teaching Methodology | Videos, PPT, Blackboard, Demonstration, Exercises |
|----------------------|---------------------------------------------------|
| Assessment Methods | Seminar, Quiz, Group Discussion. |

**Books for Study:**
1. Saralasamkritham Siksha ,2021
2. Dhaatu Rupa Manjari ,2021

**Books for Reference:**
1. Paindrapuram Ashram, Srirangam – 620 006 Gopalavimshanthi 2021
2. R. S. Vadhyar & Sons book – Seller and Publishers, Kalpathi, Palghat – 678003, Kerala, South Inida, shabdha manjari
3. Kulapthy, K.M Saral sankrit Balabodh, Bharathiys Vidya Bhavan, Munshimarg Mumbai – 400007, 2020

**Websites and eLearning Sources:**
1. https://www.meritnation.com
2. https://www.aplustopper.com
3. https://mycoaching.in/lang-lakar
4. https://sanskritdocuments.org/sites/giirvaani/giirvaani/rv/sargas/01_rv.htm
5. https://resanskrit.com/blogs/blog-post/sanskrit-shlok-popular-quotes-meaning-hindi-english

| Course Outcomes | | |
|---|---|---|
| **CO No.** | **CO–Statements** <br> On successful completion of this course, students will be able to | **Cognitive Levels (K –Levels)** |
| **CO–1** | Remembering names of different objects, remembering different verbal forms and sandhi | **K1** |
| **CO–2** | Contrast different verbal forms Explain good sayings, Relate good saying to life. | **K2** |
| **CO–3** | Apply and build small sentences | **K3** |
| **CO–4** | Analyze different forms of Verbs and nouns | **K4** |
| **CO–5** | Appreciate subhashitas and Sanskrit poetry | **K5** |

| Relationship Matrix | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Semester** | **Course Code** | | **Title of the Course** | | | | | | | | **Hours** | **Credits** |
| **2** | **25USA21GL02** | | Language Sanskrit - 2 | | | | | | | | **4** | **3** |
| **Course Outcomes↓** | **Programme Outcomes (PO)** | | | | | **Programme Specific Outcomes (PSO)** | | | | | **Mean Scores of Cos** | |
| | **PO1** | **PO2** | **PO3** | **PO4** | **PO5** | **PSO1** | **PSO2** | **PSO3** | **PSO4** | **PSO5** | | |
| **CO-1** | 2 | 1 | 3 | 2 | 2 | 2 | 3 | 3 | 2 | 1 | 2.1 | |
| **CO-2** | 3 | 2 | 3 | 2 | 2 | 3 | 2 | 3 | 3 | 2 | 2.5 | |
| **CO-3** | 2 | 2 | 3 | 2 | 2 | 2 | 2 | 3 | 3 | 1 | 2.1 | |
| **CO-4** | 3 | 2 | 3 | 3 | 1 | 2 | 3 | 3 | 3 | 1 | 2.4 | |
| **CO-5** | 3 | 2 | 2 | 2 | 3 | 2 | 2 | 3 | 3 | 1 | 2.3 | |
| | | | | | | | | | | **Mean Overall Score** | **2.28 (High)** | |

| Semester | Course Code | Title of the Course | Hours/Week | Credits |
|---|---|---|---|---|
| 2 | 25UEN22GE02A | **General English – 2:** Pre-Intermediate Stream | 5 | 3 |

| Course Objectives (CO) |
|---|
| To strengthen listening and speaking skills for identifying key ideas and details |
| To improve reading comprehension and analyze different texts |
| To express ideas clearly in conversations and presentations, using correct grammatical structures. |
| To develop writing skills by creating clear and structured texts |
| To assess and improve language use in both spoken and written communication |

**UNIT I:** (15 Hours)

| | | | |
|---|---|---|---|
| **Listening:** | **(Skill)** | : | Listening to respond to story-based questions |
| | **(Practice)** | : | "The Hare and His Friends" |
| **Reading:** | **(Skill)** | : | Understanding and interpreting proverbs |
| | **(Practice)** | : | "Necessity is the Mother of Invention" |
| **Grammar:** | **(Practice)** | : | Present Continuous Tense; Past Continuous Tense |
| **Vocabulary:** | **(Practice)** | : | Weather and Seasons |
| **Speaking:** | **(Skill)** | : | Describing on-going actions in the present and the past to describe real-life situations and activities |
| | **(Practice)** | : | Ongoing Actions: Present & Past |
| **Writing:** | **(Skill)** | : | Writing a biography of a famous personality using given details |
| | **(Practice)** | : | Writing a Biography |

**UNIT II:** (15 Hours)

| | | | |
|---|---|---|---|
| **Listening:** | **(Skill)** | : | Listening to identify factual details |
| | **(Practice)** | : | Recycling |
| **Reading:** | **(Skill)** | : | Reading to convert a story into a meaningful dialogue |
| | **(Practice)** | : | The Shepherd and the Stranger |
| **Grammar:** | **(Practice)** | : | Future Expressions: Simple Future & 'Going to'; Simple Present, Present Continuous and Future Continuous Tenses |
| **Vocabulary:** | **(Practice)** | : | Groceries |
| **Speaking:** | **(Skill)** | : | Developing conversational fluency by practising conversations on familiar and everyday topics |
| | **(Practice)** | : | Conversations on Familiar and Everyday Topics |
| **Writing:** | **(Skill)** | : | Writing clear, respectful and relevant online comments |
| | **Practice** | : | Writing Online Comments |

**UNIT III:** (15 Hours)

| | | | |
|---|---|---|---|
| **Listening:** | **(Skill)** | : | Listening for specific information |
| | **(Practice)** | : | Telephonic Conversation |
| **Reading:** | **(Skill)** | : | Reading a news report |
| | **(Practice)** | : | Iron Age in Tamil Nadu Began 5,300 Years Ago |
| **Grammar:** | **(Practice)** | : | Present Perfect Tense; Past Perfect Tense |
| **Vocabulary:** | **(Practice)** | : | Kitchen Utensils and Household Appliances |
| **Speaking:** | **(Skill)** | : | Using polite expressions in conversations to request, seek permission, grant or refuse permission, and apologise |
| | **(Practice)** | : | Polite Expressions in Conversations |
| **Writing:** | **(Skill)** | : | Expressing short reflective ideas in writing |
| | **(Practice)** | : | Thought for the Day |

**UNIT IV:** (15 Hours)

| | | | |
|---|---|---|---|
| **Listening:** | **(Skill)** | : | Predicting content and vocabulary before listening |
| | **(Practice)** | : | Our Earth |
| **Reading:** | **(Skill)** | : | Identifying direct and indirect speech |
| | **(Practice)** | : | Birbal story: "Hot Iron Test" |

| Grammar: | (Practice) | : | Active and Passive Voice |
| Vocabulary: | (Practice) | : | Human Diseases |
| Speaking: | (Skill) | : | Using polite expressions in conversations to interrupt, make suggestions, and agree or disagree |
| | (Practice) | : | Polite Expressions in Conversations |
| Writing: | (Skill) | : | Writing a report on a given topic |
| | (Practice) | : | Report Writing |

**UNIT V:** (15 Hours)

| Listening: | (Skill) | : | Listening to understand formal speeches |
| | (Practice) | : | "A Tryst with Destiny" by Jawaharlal Nehru |
| Reading: | (Skill) | : | Reading to understand an essay |
| | (Practice) | : | "Secularism" |
| Grammar: | (Practice) | : | Adverbs; Prepositions |
| Vocabulary: | (Practice) | : | **Occupations** |
| Speaking: | (Skill) | : | Delivering a short prepared speech on a familiar or inspiring topic |
| | (Practice) | : | Delivering a Short Speech |
| Writing: | (Skill) | : | Writing a clear and well-structured essay on a given topic |
| | (Practice) | : | Essay Writing |

| Teaching Methodology | Lectures, task-based activities, audio-visual listening tasks, guided reading and writing exercises, discussions |
|---|---|
| Assessment Method | Listening and reading comprehension exercises, verbal presentations, role plays and conversations, writing tasks |

**Books for Study:**
Dr. M. John Britto, Dr. B. Sam Jerome Sharone, and Dr. S. Sajeev. *Nurturing English Skills*. Emerald Publishers, 2025.

| CO No. | Course Outcomes | |
|---|---|---|
| | **CO-Statements** | **Cognitive Levels (K-Level)** |
| | On successful completion of this course, the students will be able to | |
| **CO1** | Recognize key ideas and details in spoken and written texts, demonstrating effective listening and comprehension skills. | **K1** |
| **CO2** | Understand and interpret different types of texts, enhancing reading comprehension and critical thinking abilities. | **K2** |
| **CO3** | Apply correct grammatical structures to express ideas clearly in conversations and presentations. | **K3** |
| **CO4** | Analyze and organize ideas to write clear, coherent, and well-structured texts for various purposes. | **K4** |
| **CO5** | Evaluate and improve language use, refining both spoken and written communication. | **K5** |

| Relationship Matrix | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Semester** | **Course Code** | | **Title of the Course** | | | | | | | **Hours** | **Credits** |
| **2** | **25UEN22GE02A** | | **General English – 2:** Pre-Intermediate Stream | | | | | | | **5** | **3** |
| **Course Outcomes** | **Programme Outcomes (POs)** | | | | | **Programme Specific Outcomes (PSOs)** | | | | | **Mean Scores of COs** |
| | **PO1** | **PO2** | **PO3** | **PO4** | **PO5** | **PSO1** | **PS02** | **PSO3** | **PSO4** | **PSO5** | |
| **CO1** | 2 | 3 | 2 | 3 | 2 | 3 | 2 | 3 | 2 | 2 | **2.4** |
| **CO2** | 3 | 2 | 2 | 3 | 2 | 3 | 2 | 3 | 2 | 3 | **2.5** |
| **CO3** | 3 | 2 | 2 | 2 | 3 | 2 | 2 | 3 | 2 | 2 | **2.3** |
| **CO4** | 3 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | **2.2** |
| **CO5** | 3 | 2 | 3 | 2 | 3 | 2 | 3 | 2 | 3 | 2 | **2.5** |
| | | | | | | | | | **Mean Overall Score** | | **2.38 (High)** |

| Semester | Course Code | Title of the Course | Hours/ Week | Credits |
|:---:|:---:|:---:|:---:|:---:|
| 2 | 25UEN22GE02B | **General English – 2:** Intermediate Stream | 5 | 3 |

| Course Objectives |
|---|
| To develop students' ability to listen, speak, read, and write effectively in English through interactive and contextualised activities. |
| To improve students' understanding and application of essential grammar concepts, including verb usage, auxiliary verbs, modals, adverbs, and sentence structures. |
| To equip students with strategies to deduce meanings of unfamiliar words using contextual clues. |
| To foster students' ability to brainstorm, organise information using graphic organisers, and structure written communication effectively for academic and professional contexts. |
| To enable students to engage in discussions, express opinions, seek and provide information, and navigate real-life situations confidently through role plays. |

**Unit 1: My College & Studies**                     **15 Hours**

| | | |
|---|---|---|
| **1. Listening:** | **(Skill)** | Distinguishing between main ideas and supporting details |
| | **(Practice)** | "A Day in the Life of a College Student" (A conversation) |
| **2. Reading:** | **(Skill)** | Recognising the structure of written texts |
| | **(Practice)** | "Enter to learn, leave to serve" |
| **3. Grammar:** | **(Practice)** | Main Verb |
| **4. Vocabulary:** | **(Practice)** | Using synonyms as contextual clues to guess the meaning of unfamiliar words |
| **5. Study skill:** | | Brainstorming to gather ideas in a group |
| **6. Speaking:** | **(Skill)** | Asking for, giving and refusing permission – Requesting – Communication repair: Finding about pronunciation, spelling and meaning. |
| | **(Practice)** | Role Play |
| **7. Writing:** | **(Skill)** | Writing an outline |
| | **(Practice)** | Controlled composition: Writing an outline for a given passage |

**Unit 2: Travel**                     **15 Hours**

| | | |
|---|---|---|
| **1. Listening:** | **(Skill)** | Listening for specific details |
| | **(Practice)** | "A Perfect Vacation" (A conversation) |
| **2. Reading:** | **(Skill)** | Identifying main ideas and supporting details |
| | **(Practice)** | "An Unforgettable Ride" |
| **3. Grammar:** | **(Practice)** | Auxiliary Verbs |
| **4. Vocabulary:** | **(Practice)** | Using antonyms as contextual clues to guess the meaning of unfamiliar words |
| **5. Study skill:** | | Mind mapping to visually organise information |
| **6. Speaking:** | **(Skill)** | Asking for and giving directions – Asking for and giving information |
| | **(Practice)** | Role Play |
| **7. Writing:** | **(Skill)** | Writing effective paragraphs |
| | **(Practice)** | Free-writing composition: An adventurous journey |

**Unit 3: My Social Network**                     **15 Hours**

| | | |
|---|---|---|
| **1. Listening:** | **(Skill)** | Understanding the sequence of ideas |
| | **(Practice)** | "My Virtual Friends" (A conversation) |
| **2. Reading:** | **(Skill)** | Comprehending infographics |
| | **(Practice)** | "Social Media Etiquette |
| **3. Grammar:** | **(Practice)** | Modal Auxiliary Verbs |
| **4. Vocabulary:** | **(Practice)** | Using definitions and restatements as contextual clues to guess the meaning of unfamiliar words |
| **5. Study skill:** | | Using graphic organisers (sequence of events chain, timeline, and storyboard) |
| **6. Speaking:** | **(Skill)** | Asking for and giving advice – Asking if someone agrees – Agreeing and disagreeing – Warning someone |
| | **(Practice)** | Role Play |

**7. Writing:**     **(Skill)**     Developing stories from hints
                       **(Practice)**   Controlled composition: Developing a story from given hints

## Unit 4: Shopping                                  15 Hours

| | | |
|---|---|---|
| **1. Listening:** | **(Skill)** | Detecting signposts |
| | **(Practice)** | "Let's go shopping!" (A conversation) |
| **2. Reading:** | **(Skill)** | Recognising transition of ideas |
| | **(Practice)** | "Adventures of the Grocery Store" |
| **3. Grammar:** | **(Practice)** | Adverbs and WH Question Words |
| **4. Vocabulary:** | **(Practice)** | Using examples and illustrations as contextual clues to guess the meaning of unfamiliar words |
| **5. Study skill:** | | Using graphic organisers (Venn diagram, and cause-and-effect map) |
| **6. Speaking:** | **(Skill)** | Offering and accepting help – Asking for and giving opinions – Asking for and saying one's preference – Suggesting – Complaining |
| | **(Practice)** | Role Play |
| **7. Writing:** | **(Skill)** | Describing actions in a story |
| | **(Practice)** | Guided composition: Narrating a story in a comic strip |

## Unit 5: Ceremonies                                15 Hours

| | | |
|---|---|---|
| **1. Listening:** | **(Skill)** | Listening to intonations |
| | **(Practice)** | "Happy Birthday to You!" (A conversation) |
| **2. Reading:** | **(Skill)** | Understanding moods in a reading passage |
| | **(Practice)** | "The Light has Gone out" by Jawaharlal Nehru |
| **3. Grammar:** | **(Practice)** | Sentences |
| **4. Vocabulary:** | **(Practice)** | Using root words as clues to guess the meaning of words |
| **5. Study skill:** | | Using graphic organisers (idea wheel, idea web, and concept map) |
| **6. Speaking:** | **(Skill)** | Using intonations for different types of sentences – Expressing your feelings and emotions – Congratulating and wishing someone – Expressing sympathy |
| | **(Practice)** | Role Play |
| **7. Writing:** | **(Skill)** | Expressing emotions in narrative writing |
| | **(Practice)** | Controlled composition: Describing emotions and feelings conveyed in a picture story |

| | |
|---|---|
| **Teaching Methodology** | Lectures, Demonstrations, Discussions, Peer-Review Tasks, Role-plays, Pair and group activities |
| **Assessment Tools** | Listening and reading comprehension tasks, Individual talks, Role plays, Controlled and guided compositions |

**Books for Study:**

M.S. Xavier Pradheep Singh, Amalaveenus, and A. Napoleon. English and My World, 2025.

| | Course Outcomes | |
|---|---|---|
| **CO No.** | **CO-Statements** On successful completion of this course, the students will be able to | **Cognitive Levels (K-Level)** |
| **CO1** | Identify key ideas, supporting details, and organisational patterns in spoken and written texts. | **K1** |
| **CO2** | Explain the meaning of conversations and passages by recognising their structure, tone, and purpose. | **K2** |
| **CO3** | Use appropriate language functions such as requesting, suggesting, and expressing opinions effectively in real-life interactions. | **K3** |
| **CO4** | Compare different communication styles and linguistic features in various types of texts and conversations. | **K4** |
| **CO5** | Assess the effectiveness of spoken and written communication, providing constructive feedback for improvement. | **K5** |

| Relationship Matrix | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Semester** | **Course Code** | | **Title of the Course** | | | | | | | **Hours** | **Credits** |
| 2 | 25UEN22GE02B | | General English – 2: Intermediate Stream | | | | | | | 5 | 3 |
| **Course Outcomes** | **Programme Outcomes (POs)** | | | | | **Programme Specific Outcomes (PSOs)** | | | | | **Mean Scores of Cos** |
| | PO1 | PO2 | PO3 | PO4 | PO5 | PSO1 | PSO2 | PSO3 | PSO4 | PSO5 | |
| **CO-1** | 3 | 2.5 | 2.5 | 2.5 | 2.5 | 3 | 2.5 | 2.5 | 2.5 | 3 | 2.65 |
| **CO-2** | 2.5 | 3 | 2.5 | 2.5 | 2.5 | 3 | 3 | 2.5 | 2.5 | 3 | 2.7 |
| **CO-3** | 3 | 2.5 | 2.5 | 3 | 2.5 | 2.5 | 2.5 | 2.5 | 3 | 2.5 | 2.65 |
| **CO-4** | 2.5 | 2.5 | 2.5 | 3 | 2.5 | 2.5 | 2.5 | 3 | 2.5 | 2.5 | 2.6 |
| **CO-5** | 3 | 2.5 | 2.5 | 2.5 | 3 | 2.5 | 2.5 | 2.5 | 3 | 2.5 | 2.65 |
| | | | | | | | | | **Mean Overall Score** | | **2.65 (High)** |

| Semester | Course Code | Title of the Course | Hours/Week | Credits |
|----------|-------------|---------------------|------------|---------|
| 2 | 25UCC23CC03 | **Core Course - 3:** Financial Accounting - 2 | 6 | 4 |

| Course Objectives |
|---|
| To understand the meaning and concepts of financial accounting and hire purchase system |
| To enhance preparation of branch and department accounts in a business concern |
| To impart the business knowledge on partnership accounts |
| To apply the knowledge of accounting with different businesses concerns |
| To obtain the knowledge on legal provisions of different business establishments |

**UNIT I: Hire Purchase and Installment System**          (18 Hours)

Hire Purchase System - Accounting Treatment - Calculation of Interest - Default and Repossession - Hire Purchase Trading Account Instalment System - Calculation of Profit.

**UNIT II: Branch and Departmental Accounts**          (18 Hours)

Dependent Branches: Accounting Aspects - Debtors system -Stock and Debtors system - Distinction between Wholesale Profit and Retail Profit - Independent Branches (Foreign Branches excluded) - Departmental Accounts: Basis of Allocation of Expenses - Inter- Departmental Transfer at Cost or Selling Price.

**UNIT III:  Partnership Accounts - I**          (18 Hours)

Partnership Accounts: - Admission of a Partner - Treatment of Goodwill - Calculation of Hidden Goodwill - Retirement of a Partner

**UNIT IV: Partnership Accounts - II**          (18 Hours)

Partnership Accounts: - Death of a Partner. Dissolution of Partnership - Methods - Settlement of Accounts Regarding Losses and Assets - Realization account - Treatment of Goodwill - Preparation of Balance Sheet.

**UNIT V: Partnership Accounts - III**          (18 Hours)

Insolvency of a Partner - One or more Partners insolvent - All  Partners insolvent - Garner Vs Murray - Accounting Treatment - Piecemeal Distribution - Surplus Capital Method - Maximum Loss Method.

**THEORY 20% & PROBLEMS  80%**

| Teaching Methodology | Video demonstration, chalk and talk method |
|----------------------|---------------------------------------------|
| Assessment Methodology | Assignment, group discussion |

**Books for Study:**
1. Jain, S. P. & Narang, K. L. (2021). *Financial Accounting- I,* (25th Ed.). Kalyani Publishers. (Unit I & II)
2. Reddy, T. S.  & Murthy, A (2024), *Financial Accounting.* Margham Publishers.

**Books for Reference:**
1. Shukla, G. & Gupta. (2019). Advanced Accounts, Volume-1, (12th  Ed.). S. Chand and Sons.
2. Maheshwari, S. N. (2021). *Financial Accounting,* (6th Ed.). Vikas Publications.
3. Arulanandan & Raman.  *Advanced Accountancy.* Himalaya Publications.

**Websites and e Learning Sources:**
1. https://www.slideshare.net/mcsharma1/accounting-for-depreciation-1
2. https://www.slideshare.net/ramusakha/basics-of-financial-accounting
3. https://www.accountingtools.com/articles/what-is-a-single-entry-system.html

| Course Outcomes | | |
|---|---|---|
| **CO No.** | **CO-Statements** <br> On Successful completion of this course, students will be able to | **Cognitive Levels (K- level)** |
| **CO1** | Impart the business knowledge on Hire purchase system, Instalment systems. | **K1** |
| **CO2** | Enhance preparation of accounting statements of Branch and Departmental accounts. | **K2** |
| **CO3** | Impart the business knowledge on partnership admission and retirement accounts. | **K3** |
| **CO4** | Apply the knowledge of accounting with different businesses of partnership firms and prepare the accounting statements. | **K4** |
| **CO5** | Explore the financial methods in different businesses and partnership firms. | **K5** |

| Relationship Matrix | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Semester** | **Course Code** | | **Title of the Course** | | | | | | | **Hours/Week** | **Credits** |
| **2** | **25UCC23CC03** | | **Core Course - 3:** Financial Accounting - 2 | | | | | | | **6** | **4** |
| **Course Outcomes** | **Programme Outcomes (POs)** | | | | | **Programme Specific Outcomes (PSOs)** | | | | | **Mean Scores of COs** |
| | **PO1** | **PO2** | **PO3** | **PO4** | **PO5** | **PSO1** | **PSO2** | **PSO3** | **PSO4** | **PSO5** | |
| **CO1** | 3 | 2 | 2 | 3 | 2 | 3 | 3 | 2 | 2 | 3 | **2.5** |
| **CO2** | 2 | 3 | 2 | 1 | 2 | 3 | 3 | 2 | 2 | 3 | **2.3** |
| **CO3** | 2 | 2 | 3 | 2 | 3 | 2 | 3 | 2 | 3 | 2 | **2.4** |
| **CO4** | 1 | 2 | 2 | 3 | 1 | 2 | 3 | 2 | 2 | 3 | **2.1** |
| **CO5** | 2 | 2 | 2 | 2 | 3 | 1 | 3 | 2 | 2 | 3 | **2.2** |
| | | | | | | | | | | **Mean Overall Score** | **2.3(High)** |

| Semester | Course Code | Title of the Course | Hours | Credits |
|---|---|---|---|---|
| 2 | 25UCC23CC04 | **Core Course - 4:** Fundamentals of C Programming | 3 | 2 |

| Course Objectives |
|---|
| To Understand the Fundamentals of C Programming. |
| To Work with Data Types, Variables, Operators and Apply various operators and expressions for problem-solving. |
| To Implement Control Structures and looping for Decision Making. |
| To Apply Functions and Advanced Data Structures |
| To Learn and implement the concepts of pointers, structures. |

**UNIT 1: Introduction to C** (9 Hours)

Introduction to C Language: Introduction-Features of C Language-Benefits of C over other languages - Compilation of C Program-First Program in C – Preprocessor in C-Preprocessor directives.

**UNIT 2: C Data types and Operators** (9 Hours)

Variables, Data Types and Operators: Variables and Keywords in C-Scope rules in C-Data Types in C-Operators and Its Types-Typecasting in C

**UNIT 3: Control Structures** (9 Hours)

Control Flow Statements: Decision Making Statements-Switch Statement in C-C Loops and Control Structure - Practice problems -Continue Statement, Break Statement - Array & String Handling in C: Arrays in C-Strings in C

**UNIT 4: Arrays and Functions** (9 Hours)

Multidimensional Arrays in C-String functions in C- Practice problems - Functions in C-Function Prototype-Parameter Passing Techniques in C-Storage Classes in C-Recursion Concept -Functions in C - Practice problems

**UNIT 5: Pointers and Structures** (9 Hours)

Pointers, Structures and Unions: Pointers in C-Structures- Union - Enumeration (or enum) in C- Pointer Vs Array in C – C application programs (Sorting, Matrix manipulations, student's mark list preparation)

| Teaching Methodology | Chalk and talk, PPT, e-videos, Demonstration, Blended Learning |
|---|---|
| Assessment Methods | MCQ, Designing program |

**Books for Study:**
1. E. Balaguruswamy (2019). "Programming in ANSI C", 8th Edition, McGraw Hill Education, ISBN:978-93-5316-513-0.
2. PradipDey, Manas Ghosh (2018). "Programming in C", 2nd Edition, Oxford University Press, ISBN: 978-01-9949-147-6.
3. Kernighan B.W and Dennis M. Ritchie (2015). "The C Programming Language", 2nd Edition, Pearson Education India, ISBN: 978-93-3254-944-9.

**Books for Reference:**
1. Yashavant P. Kanetkar (2019). "Let Us C", 16th Edition, BPB Publications, ISBN: 978 93-8728-449-4.
2. Jacqueline A Jones and Keith Harrow (2015)., "Problem Solving with C", Pearson Education, ISBN: 978-93-325-3800-9.
3. Dr. Guruprasad Nagraj (2023). "C Programming for Problem Solving", Himalaya Publishing House. ISBN-978-93-5299-361-1.

**Websites and eLearning Sources:**

1. http://elearning.vtu.ac.in/econtent/courses/video/BS/14CPL16.html
2. https://nptel.ac.in/courses/106/105/106105171
3. https://www.learn-c.org/
4. https://www.codechef.com/learn/course/c
5. https://www.tpointtech.com/c-programming-language-tutorial

| | Course Outcomes | |
|---|---|---|
| **CO No** | **CO – Statements** <br> On Successful completion of this course, students will be able to | **Cognitive Levels (K-Level)** |
| **CO1** | Understand the Fundamentals of C Language | **K1** |
| **CO2** | Utilize different types of operators and typecasting techniques in C programs. | **K2** |
| **CO3** | Analyze and Develop programs using decision-making statements, loops, and switch statements. | **K3** |
| **CO4** | Develop Modular Programs Using Functions and Arrays | **K4** |
| **CO5** | Utilize Pointers, Structures, and Unions for advanced programming | **K5** |

| Relationship Matrix | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| **Semester** | **Course Code** | | **Title of the Course** | | | **Hours** | | **Credits** | | |
| **2** | **25UCC23CC04** | | **Core Course - 4:** Fundamentals of C Programming | | | **3** | | **2** | | |
| **Course Outcomes** | **Programme Outcomes (POs)** | | | | | **Programme Specific Outcomes (PSOs)** | | | | | **Mean Score of COs** |
| | **PO1** | **PO2** | **PO3** | **PO4** | **PO5** | **PSO1** | **PSO2** | **PSO3** | **PSO4** | **PSO5** | |
| **CO1** | 2 | 1 | 2 | 2 | 3 | 2 | 2 | 2 | 3 | 3 | 2.2 |
| **CO2** | 2 | 3 | 1 | 2 | 2 | 2 | 3 | 3 | 2 | 2 | 2.2 |
| **CO3** | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 2 | 2 | 2.5 |
| **CO4** | 2 | 3 | 3 | 2 | 3 | 3 | 3 | 3 | 3 | 2 | 2.7 |
| **CO5** | 1 | 2 | 3 | 2 | 3 | 2 | 3 | 3 | 2 | 2 | 2.3 |
| | | | | | | | | **Mean Overall Score** | | | **2.3 (High)** |

| Semester | Course Code | Title of the Course | Hours | Credits |
|---|---|---|---|---|
| 2 | 25UCC23CP02 | **Core Practical – 2:** Programming in C | 2 | 2 |

| Course Objectives |
|---|
| To understand the core syntax and semantics of C programming language. |
| To implement data types & operators. |
| To apply Control Structures. |
| To utilize Functions & Recursion. |
| To Implement Pointers & Dynamic Memory Allocation. |

**Exercises**

1. Write a Program to convert temperature from degree Centigrade to Fahrenheit.
2. Write a Program to find whether the given number is Even or Odd.
3. Write a Program to find the greatest of Three numbers.
4. Write a Program to display Monday to Sunday using switch statement.
5. Write a Program to implement Decision making statements and looping.
6. Write a Program to perform matrix manipulation.
7. Write a Program to find the maximum number in Array using pointer.
8. Write a Program to solve Quadratic Equation using functions.
9. Write a Program to find factorial of a number using Recursion.
10. 10.Write a Program to implement string functions.
11. Write a Program using function.
12. Write a Program to add two numbers using pointer.
13. Write a Program to prepare payroll using structure.
14. Write a Program to prepare student mark list using union.

| Teaching Methodology | PPT, Lab, demonstration |
|---|---|
| Assessment methodology | Viva voice, practical exam |

**Books for Study:**

1. E. Balaguruswamy (2019). "Programming in ANSI C", 8th Edition, 2019, McGraw Hill Education, ISBN:978-93-5316-513-0.
2. Pradip Dey, Manas Ghosh (2018). "Programming in C", 2nd Edition, 2018, Oxford University Press, ISBN: 978-01-9949-147-6.
3. Kernighan B.W and Dennis M. Ritchie (2015). "The C Programming Language", 2nd Edition, Pearson Education India, ISBN: 978-93-3254-944-9.

**Books for Reference:**

1. Yashavant P. Kanetka (2019). "Let Us C", 16th Edition, 2019, BPB Publications, ISBN: 978- 93-8728-449-4.
2. Jacqueline A Jones and Keith Harrow (2015). "Problem Solving with C" Pearson Education.
3. ISBN: 978-93-325-3800-9.
4. Dr. Guruprasad Nagraj (2023). "C Programming for Problem Solving", Himalaya Publishing House. ISBN-978-93-5299-361-1.

**Websites and eLearning Sources:**

1. http://elearning.vtu.ac.in/econtent/courses/video/BS/14CPL16.html
2. https://nptel.ac.in/courses/106/105/106105171
3. https://www.learn-c.org/
4. https://www.codechef.com/learn/course/c
5. https://www.tpointtech.com/c-programming-language-tutorial

| Course Outcomes | | |
|---|---|---|
| **CO No** | **CO – Statements**<br>On successful completion of this course the students will be able to | **Cognitive Levels (K-Level)** |
| **CO1** | Understand and implement basic C syntax | **K1** |
| **CO2** | Apply control structures for problem solving | **K2** |
| **CO3** | Implement array manipulations and string operations using standard and user-defined functions. | **K3** |
| **CO4** | Utilize pointers and dynamic memory allocation | **K4** |
| **CO5** | Develop and use Structures and Unions | **K5** |

| Relationship matrix | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Semester** | **Course Code** | | **Title of the Course** | | | | | | **Hours** | | **Credits** |
| **2** | **25UCC23CP02** | | **Core Practical – 2:** Programming in C | | | | | | **2** | | **2** |
| **Course Outcomes** | **Programme Outcomes (POs)** | | | | | **Programme Specific Outcomes (PSOs)** | | | | | **Mean Score of COs** |
| | **PO1** | **PO2** | **PO3** | **PO4** | **PO5** | **PSO1** | **PSO2** | **PSO3** | **PSO4** | **PSO5** | |
| **CO1** | 2 | 1 | 2 | 2 | 3 | 2 | 2 | 2 | 3 | 3 | 2.2 |
| **CO2** | 2 | 3 | 1 | 2 | 2 | 2 | 3 | 3 | 2 | 2 | 2.2 |
| **CO3** | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 2 | 2 | 2.5 |
| **CO4** | 2 | 3 | 3 | 2 | 3 | 3 | 3 | 3 | 3 | 2 | 2.7 |
| **CO5** | 1 | 2 | 3 | 2 | 3 | 2 | 3 | 3 | 2 | 2 | 2.3 |
| | | | | | | | | | | **Mean Overall Score** | **2.3 (High)** |

| Semester | Course Code | Title of the Course | Hours | Credits |
|---|---|---|---|---|
| 2 | 25UCC23AC02 | **Allied Course – 2:** Financial Modeling in Excel | 3 | 2 |

| Course Objectives |
|---|
| To understand the basic functions of excel. |
| To apply the various shortcut keys in excel. |
| To prepare various statements in financial accounting. |
| To prepare various models in portfolio management using excel. |
| To understanding subroutines and its functions using excel. |

## UNIT-I: UNDERSTANDING THE BASIC OF EXCEL (9 Hours)

Introduction to excel, Functions: Sum, Average, Max, Min, Count, Counta, understanding advanced features of excel database functions in excel, creating charts using forms and control toolbox.

## UNIT-II: ANALYSIS USING EXCEL (9 Hours)

Shortcut keys: Date, Time, Month, Years, Cut, Copy Paste etc., Various selection keys, Simulation using excel different statistical distributions used in simulation generating random numbers that follow a particular distribution, building models in finance using simulation.

## UNIT-III: EXCEL IN ACCOUNTING (9 Hours)

Preparing common size statements, Fund flow statement and cash flow statements, Ratio analysis, forecasting financial statements using excel in project appraisal, determining project viability.

## UNIT-IV: EXCEL IN PORTFOLIO THEORY (9 Hours)

Preparation of Fixed income portfolio management using excel, excel in derivatives black and schools model in excel, Greeks in excel, real options valuation, building a mega model.

## UNIT-V: UNDERSTANDING SUBROUTINES AND FUNCTIONS (9 Hours)

Editing macros, subroutines and functions, decision rules, message box and input box, debugging, financial models using visual basic application.

| Teaching Methodology | Chalk and Talk, PPT, Videos |
|---|---|
| Assessment Methodology | MCQ, Snap Test, Lab Test, Quiz |

**Books for Study:**
1. A1. lastair Day (2012) "Mastering Financial Modeling in Microsoft Excel: A Practitioner's Guide to Applied Corporate Finance ", FT Publishing Intenationsl,3rd Edition. ISBN- 13: 978-0273772255.
2. CA Manmeet Singh Mehta (2022) "Microsoft excel professional 2021 Guide: Complete excel reference, loads of formulas and functions, shortcuts, and numerous screenshots to become and excel expert", BPB Publications. ISBN- 10: 9355510454.

**Books for Reference:**
1. John Walkenbach "Microsoft Excel 2010 Formulas" Willey publication. ISBN-10-126511427.
2. 2. Winston Wayne. L "Microsoft Excel 2019: Date Analysis& Business Model" (2019), PHI learning PVT. Ltd. ISBN- 10: 9389347181.
3. D.S. Reddy &Moorthy (2022) "Financial Accounting", Margham Publication, Chennai.

**Websites and eLearning Sources:**
1. https://www.youtube.com/results?search_query=funtions+of+excelhttps://dea.gov.in.
2. https://www.youtube.com/results?search_query=financial+functions+of+excel
3. https://www.google.com/search?q=Financial+functions+in+Excel+PDF.

| Course Outcomes | | |
|---|---|---|
| **CO No.** | **CO-Statements**<br>On successful completion of this course, the students will be able to | **Cognitive Levels (K-Level)** |
| **CO1** | Understand the basic functions of excel. | **K1** |
| **CO2** | Apply the various shortcut keys in excel. | **K2** |
| **CO3** | Prepare various statements in financial accounting. | **K3** |
| **CO4** | Prepare various models in portfolio management using excel. | **K4** |
| **CO5** | Understanding subroutines and its functions using excel. | **K5** |
| **CO6** | Understand the how do use various functions in financial accounting. | **K6** |

| Relationship Matrix | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Semester** | **Course Code** | | **Title of the Course** | | | | | | | **Hours** | **Credits** |
| **2** | **25UCC23AC02** | | **Allied Course – 2:** Financial Modeling in Excel | | | | | | | **3** | **2** |
| **Course Outcomes** | **Programme Outcomes (POs)** | | | | | **Programme Specific Outcomes (PSOs)** | | | | | **Mean Score of COs** |
| | **PO1** | **PO2** | **PO3** | **PO4** | **PO5** | **PSO1** | **PSO2** | **PSO3** | **PSO4** | **PSO5** | |
| **CO1** | 3 | 2 | 2 | 3 | 2 | 3 | 3 | 2 | 2 | 3 | **2.5** |
| **CO2** | 2 | 3 | 2 | 1 | 2 | 3 | 3 | 2 | 2 | 3 | **2.3** |
| **CO3** | 2 | 2 | 3 | 2 | 3 | 2 | 3 | 2 | 3 | 2 | **2.4** |
| **CO4** | 1 | 2 | 2 | 3 | 1 | 2 | 3 | 2 | 2 | 3 | **2.1** |
| **CO5** | 2 | 2 | 2 | 2 | 3 | 1 | 3 | 2 | 2 | 3 | **2.2** |
| **CO6** | 2 | 2 | 2 | 2 | 3 | 1 | 3 | 2 | 2 | 3 | **2.2** |
| | | | | | | | | | **Mean Overall Score** | | **2.3 (High)** |

| Semester | Course Code | Title of the Course | Hours / Week | Credits |
|:---:|:---:|:---:|:---:|:---:|
| 2 | 25UCC23AP01 | **Allied Practical – 1:** Financial Modeling in Excel | 3 | 2 |

| Course Objectives |
|---|
| To understand the basic functions of excel. |
| To apply the various shortcut keys in excel. |
| To prepare various statements in financial accounting. |
| To prepare various models in portfolio management using excel. |
| To understanding subroutines and its functions using excel. |

**Exercises in Lab:**
1. Working with basic functions using MS - Excel- Sum, Average, Count, Counta etc.,
2. Creating charts using forms and control toolbox.
3. Shortcut keys- Date, Time, Year and statistical distribution.
4. Building models in finance using simulation.
5. Preparing of common size statements, Fund flow statement and cash flow statements.
6. Calculations of Ratio analysis.
7. Preparation of Fixed income portfolio management.
8. Prepare derivatives black and schools mode.
9. Editing Macros, Subroutines and its functions.
10. Preparation of decision rules, message box and input box.
11. Preparation of Debugging.

| Teaching Methodology | Practical Lab |
|---|---|
| **Assessment Method** | MCQ, Snap Test, Lab Test, Quiz |

**Books for Study:**
1. A1. lastair Day (2012) "Mastering *Financial Modeling in Microsoft Excel: A Practitioner's Guide to Applied Corporate Finance* ", FT Publishing Intenationsl,3$^{rd}$ Edition. ISBN- 13: 978-0273772255.
2. CA Manmeet Singh Mehta (2022) "*Microsoft excel professional 2021 Guide: Complete excel reference, loads of formulas and functions, shortcuts, and numerous screenshots to become and excel expert"*, BPB Publications. ISBN- 10: 9355510454.

**Books for Reference:**
1. John Walkenbach "Microsoft Excel 2010 Formulas" Willey publication. ISBN-10-126511427.
2. Winston Wayne. L "Microsoft Excel 2019: Date Analysis& Business Model" (2019), PHI learning PVT. Ltd. ISBN- 10: 9389347181.
3. D.S. Reddy &Moorthy (2022) "Financial Accounting", Margham Publication, Chennai.

**Websites and eLearning Sources:**
1. https://www.youtube.com/results?search_query=funtions+of+excelhttps://dea.gov.in.
2. https://www.youtube.com/results?search_query=financial+functions+of+excel.
3. https://www.google.com/search?q=Financial+functions+in+Excel+PDF.

## Course Outcomes

| CO No. | CO-Statements | Cognitive Levels (K-Level) |
|---|---|---|
| | On successful completion of this course, the students will be able to | |
| CO1 | Apply the basic functions of excel. | K1 |
| CO2 | Apply the various shortcut keys in excel. | K2 |
| CO3 | Prepare various statements in financial accounting. | K3 |
| CO4 | Prepare various models in portfolio management using excel. | K4 |
| CO5 | Understanding subroutines and its functions using excel. | K5 |

## Relationship Matrix

| Semester | Course Code | Title of the Course | | Hours/Week | Credits |
|---|---|---|---|---|---|
| 2 | 25UCC23AP01 | **Allied Practical – 1:** Financial Modeling in Basic Excel | | 3 | 2 |

| Course Outcomes | Programme Outcomes (POs) | | | | | Programme Specific Outcomes (PSOs) | | | | | Mean Score of COs |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | PO1 | PO2 | PO3 | PO4 | PO5 | PSO1 | PSO2 | PSO3 | PSO4 | PSO5 | |
| CO1 | 3 | 2 | 2 | 3 | 2 | 3 | 3 | 2 | 2 | 3 | 2.5 |
| CO2 | 2 | 3 | 2 | 1 | 2 | 3 | 3 | 2 | 2 | 3 | 2.3 |
| CO3 | 2 | 2 | 3 | 2 | 3 | 2 | 3 | 2 | 3 | 2 | 2.4 |
| CO4 | 1 | 2 | 2 | 3 | 1 | 2 | 3 | 2 | 2 | 3 | 2.1 |
| CO5 | 2 | 2 | 2 | 2 | 3 | 1 | 3 | 2 | 2 | 3 | 2.2 |
| | | | | | | | | | **Mean Overall Score** | | 2.3 (High) |

| Semester | Course Code | Title of the Course | Hours/Week | Credits |
|---|---|---|---|---|
| 2 | 25UHE24AE02 | **Ability Enhancement Compulsory Course - 2:** Environmental Studies | 2 | 1 |

| Course Objectives |
|---|
| To enable students connect themselves with nature |
| To Impart knowledge of the concept of Biodiversity |
| To create awareness of the causes and consequences of various pollution |
| To help them recognize the available natural resources and the need to sustain them |
| To enable them to Identify the environmental problems and offer alternatives by making interventions both individually and collectively |

**UNIT I: Introduction To Environmental Studies** (6 Hours)

Introduction -Subsystems of Earth - Scope and Importance - Various Recycling Methods - Environmental Movements in India – Eco- Feminism - Public awareness - Suggestions to conserve environment

**UNIT II: Natural Resources** (6 Hours)

Introduction - Food Resources - Land Resources - Forest resources - Mineral Resources - Water Resources - Energy Resources

**UNIT III: Ecosystems, Biodiversity and Conservation** (6 Hours)

Kinds of Ecosystem - General structure of ecosystem - Functions of Ecosystem - Energy flow and Ecological pyramids - Levels of Biodiversity - Biodiversity at Global Level- Hot spots of Biodiversity - Endangered and Endemic Species - Value of Biodiversity - Threats to Biodiversity - Conservation of Biodiversity

**UNIT IV: Environmental Pollution** (6 Hours)

Air Pollution - Water Pollution - Oil Pollution - Soil Pollution - Marine Pollution - Noise Pollution - Thermal Pollution - Radiation Pollution

**UNIT V: Environmental Organizations and Treatise** (6 Hours)

United Nations Environment Program (UNEP) - International treaties on Environmental protection - Ministry of Environment, Forest and Climate Change - Important National Environmental Acts and rules- Environmental Impact assessment

| Teaching Methodology | Power point and Field visit |
|---|---|
| Assessment Methods | Seminar, Group Discussion. |

**Books for Study:**
1. Department of Human Excellence, (2025). *Environmental Studies.*

**Books for Reference:**
1. Rathor, V. S. & Rathor B. S. (2013). *Management of Natural Resources for Sustainable Development*. Daya Publishing House.
2. Sharma P.D. (2010). *Ecology and Environment*, (8th Ed.). Rastogi Publications.
3. Agrawal, A &Gibson, C.C. (2001). *Introduction: The Role of Community in Natural Resource Conservation.* Rutgers University Press.

**Websites and eLearning Sources:**
1. https://www.unep.org/
2. http://moef.gov.in/en/
3. https://www.ipcc.ch/reports/

## Course Outcomes

| CO No. | CO-Statements<br>On successful completion of this course, students will be able to | Cognitive Levels (K - Level) |
|---|---|---|
| CO1 | Identify the concepts related to global ecology and the environment | K1 |
| CO2 | Comprehend the natural resources and environmental organizations | K2 |
| CO3 | Apply the acquired knowledge to sensitize individuals and public about the environmental crisis | K3 |

## Relationship Matrix

| Semester | Course Code | Title of the Course | | | | Hours | Credits |
|---|---|---|---|---|---|---|---|
| 2 | 25UHE24AE02 | Ability Enhancement Compulsory Course - 2: Environmental Studies | | | | 2 | 1 |

| Course Outcomes | Programme Outcomes (POs) | | | | | Programme Specific Outcomes (PSOs) | | | | | Mean Score of COs |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | PO1 | PO2 | PO3 | PO4 | PO5 | PSO1 | PSO2 | PSO3 | PSO4 | PSO5 | |
| CO1 | 3 | 2 | 1 | 2 | 2 | 3 | 2 | 2 | 2 | 2 | 2.1 |
| CO2 | 3 | 2 | 1 | 2 | 2 | 3 | 2 | 2 | 2 | 2 | 2.1 |
| CO3 | 3 | 2 | 2 | 2 | 2 | 2 | 3 | 2 | 1 | 2 | 2.1 |
| | | | | | | | | | Mean Overall Score | | 2.1 (Medium) |

| Semester | Course Code | Title of the Course | Hours/Week | Credits |
|---|---|---|---|---|
| 2 | 25UHE24VE02 | **Value Education - 2:** Fundamentals of Human Rights | 2 | 1 |

| Course Objectives |
|---|
| To sensitize students about various human rights and their importance |
| To empower them with the right understanding of human rights |
| To enable them to understand the Fundamental rights and the duties in the constitution of India |
| To help them comprehend the background, principles and the articles of UDHR |
| To make them involved in activities to defend human rights |

## UNIT I: Human Rights - An Introduction (6 Hours)

Introduction- Classification of Human Rights- Scope of Human Rights-Characteristics of Human Rights - Challenges for Human Rights in the 21st Century.

## UNIT II: Historical Development of Human Rights (6 Hours)

Human Rights in Pre-World War Era- Human Rights in Post-World War Era- Evolution of International Human Rights Law - the General Assembly Proclamation- Institution Building, Implementation and the Post- Cold War Period. The ICC.

## UNIT III: India and Human Rights (6 Hours)

Introduction-Preamble to Indian Constitution - Classification of Fundamental Rights-Salient Features of Fundamental Rights-and Fundamental Duties.

## UNIT IV: Human Rights of Women and Children (6 Hours)

Women's Human Rights- Issues related to women's rights - and Rights of Women's and Children

## UNIT V: Human Rights Violations and Organizations (6 Hours)

Human Rights Violations - Human Rights Violations in India - the Human Rights Watch Report - Human Rights Organizations - NHRC - SHRC.

| Teaching Methodology | Power point, Handouts and Group discussion |
|---|---|
| Assessment Methods | Seminars, Group Discussion, Assignments. |

**Books for Study:**
1. Department of Human Excellence, (2021). *Techniques of Social Analysis: Fundamentals of Human Rights.*

**Books for Reference:**
1. Venkatachalem. (2005). The *Constitution of India*, *Giri Law House.*
2. Naik, V. &Shany, M. (2011). *Human rights education and training*, Crescent Publishing Corporation.
3. Neera, B. (2011). *Human Rights Content and Extent.* Swastika Publications.

**Websites and eLearning Sources:**
1. https://www.un.org/en/universal-declaration-human-rights/
2. https://www.ilo.org/global/lang--en/
3. https://www.amnesty.org/en/

## Course Outcomes

| CO No. | CO-Statements | Cognitive Levels (K - Level) |
|---|---|---|
| | On successful completion of this course, students will be able to | |
| CO1 | Identify the importance and the values of human rights | K1 |
| CO2 | Understand the historical background and the development of Human Rights and the related organizations | K2 |
| CO3 | Apply the provisions of National and International human rights to themselves and the society | K3 |

## Relationship Matrix

| Semester | Course Code | Title of the Course | | Hours | Credits |
|---|---|---|---|---|---|
| 2 | 25UHE24VE02 | Value Education - 2: Fundamentals of Human Rights | | 2 | 1 |

| Course Outcomes | Programme Outcomes (POs) | | | | | Programme Specific Outcomes (PSOs) | | | | | Mean Score of COs |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | PO1 | PO2 | PO3 | PO4 | PO5 | PSO1 | PSO2 | PSO3 | PSO4 | PSO5 | |
| CO1 | 3 | 2 | 1 | 2 | 2 | 3 | 2 | 2 | 2 | 2 | 2.1 |
| CO2 | 3 | 2 | 1 | 2 | 2 | 3 | 2 | 2 | 2 | 2 | 2.1 |
| CO3 | 3 | 2 | 2 | 2 | 2 | 2 | 3 | 2 | 1 | 2 | 2.1 |
| Mean Overall Score | | | | | | | | | | | 2.1 (Medium) |

| Semester | Course Code | Title of the Course | Hours/ Week | Credits |
|---|---|---|---|---|
| *3* | *25UTA31GL03* | பொதுத்தமிழ் – 3: General Tamil - 3 | *4* | *3* |

| கற்றலின் நோக்கங்கள் (Course Objectives) |
|---|
| சங்க இலக்கியங்களின் இன்றியமையாமையை அறிந்து கொள்ளுதல் |
| இலக்கியத்தினை நுட்பமாக அறிதலின் வழியாக ஆற்றுப்படுத்தும் திறன் பெறுதல் |
| இலக்கிய அறநெறிகளைத் தற்கால வாழ்வியலில் பயன்படுத்தும் திறன் பெறுதல் |
| திணை, துறைகளைப் பகுத்தாராயும் அறிவு பெறுதல் |
| இலக்கிய இலக்கண நுட்பங்களை வாழ்வியலோடு ஒப்பிடுதல் |

**அலகு – 1 :**	*(12 மணி நேரம்)*

**குறுந்தொகை**: குறிஞ்சித் திணை - பரணர் பாடல் (199), முல்லை - ஒளவையார் பாடல் (99), மருதம் - கொல்லிக்கண்ணனார் பாடல் (34), நெய்தல் - கச்சிப்பேட்டு நன்னாகையார் பாடல் (172), பாலை - வெண்பூதி பாடல் (174)

**நற்றிணை**: குறிஞ்சி - கபிலர் பாடல் (194), முல்லை - இடைக்காடனார் பாடல் (142), மருதம் – உறையூர்க் கதுவாய்ச் சாத்தனார் பாடல் ( 370), நெய்தல் - அறிவுடைநம்பி பாடல் (15), பாலை - கணக்காயனார் பாடல் (24)

**ஐங்குறுநூறு**: குறிஞ்சி - அன்னாய் வாழிப் பத்து - அன்னாய் வாழி வேண்டன்னை நம் படப்பை (203), முல்லை - செவிலி கூற்றுப் பத்து - மறியிடைபடுத்த மான்பிணைபோல ( 401), மருதம் - வேட்கைப் பத்து - வாழி ஆதன் வாழி அவினி (01), நெய்தல் - வெள்ளாங்குருகுப் பத்து - வெள்ளாங் குருகின் பிள்ளை ( 157), பாலை - உடன்போக்கின் கண் இடைச் சுரத்து உரைத்த பத்து - அறம்புரி அருமறை நவின்ற ( 387)

**புறநானூறு**: பிசிராந்தையார் (67), அரிசில் கிழார் ( 146), காக்கைப்பாடினி (278), அள்ளூர் நன்முல்லையார் (306), பரணர் ( 352)

**அலகு – 2 :**	*(12 மணி நேரம்)*

சிறுபாணாற்றுப்படை

இலக்கணம் - யாப்பு

**அலகு – 3 :**	*(12 மணி நேரம்)*

**கலித்தொகை**: குறிஞ்சிக்கலி – திருந்திழாய்! கேளாய் எனத் தொடங்கும் பாடல் (64), முல்லைக்கலி – கண் அகன் இரு விசும்பில் எனத் தொடங்கும் பாடல் (101), மருதக்கலி - நறவினை வரைந்தார்க்கும் எனத் தொடங்கும் பாடல் (98), நெய்தல்கலி - இவர்திமில் எறிதிரை எனத் தொடங்கும் பாடல் (135) பாலைக்கலி - அறனின்றி அயல்தூற்றும் எனத் தொடங்கும் பாடல் (2)

**பதிற்றுப்பத்து**: குமட்டூர்க் கண்ணனாரின் புண் உமிழ் குருதி (11), பாலைக் கௌதமனாரின் கயிறு குறு முகவை (22)

**இலக்கிய வரலாறு**: சங்க இலக்கியங்கள், சங்க இலக்கியங்களின் தனித்தன்மைகள்

**அலகு – 4 :**	*(12 மணி நேரம்)*

**அகநானூறு**: அளிநிலை பொறாது அமரிய முகத்தள் எனத் தொடங்கும் பாடல் ( 5) , திதலை மாமை தளிர்வனப்பு எனத் தொடங்கும் பாடல் (135), திருந்துஇழை நெகிழ்ந்து எனத் தொடங்கும் பாடல் ( 387)

**தனிப்பாடல் திரட்டு**:- பிறவிக் குணமும் பழக்கமும் (196), கொடியது (242), பெரியது (244), அரியது (245), இதுவே நலம் ( 223)

**இலக்கிய வரலாறு**: பதினெண்கீழ்க்கணக்கு நூல்கள்

**அலகு – 5 :**	*(12 மணி நேரம்)*

**திருக்குறள்**: இனியவை கூறல் (10), நட்பு ஆராய்தல் (80)

**பழமொழி நானூறு**: ஆற்றவும் கற்றார் அறிவுடையார் எனத் தொடங்கும் பாடல் (40), வைத்தனை வைப்பென்று எனத் தொடங்கும் பாடல் ( 95), உடைப்பெருஞ் செல்வத்து எனத் தொடங்கும் பாடல் ( 154), தத்தமக்குக் கொண்ட எனத் தொடங்கும் பாடல் (276), நோக்கி அறிகல்லா எனத் தொடங்கும் பாடல் (337)

**இனியவை நாற்பது**:- முதல் பத்து பாடல்கள் ( 1-10)

**இலக்கணம் - அணி**

**நாடகம் - விந்தனின் வாழப்பிறந்தவன்**

| கற்பித்தல் அணுகுமுறை (Teaching Methodology) | விரிவுரை (Lecture), காணொளிக் காட்சி (Videos), விளக்கக் காட்சி (PPT presentation) |
|---|---|
| மதிப்பீட்டு முறைகள் (Assesment methods) | கருத்துரை(Seminar), குழுக் கலந்துரையாடல் (Group Discussion), உடனடித்தேர்வு (Snap Test), ஒப்படைவு (Assignment) |

**பாடநூல்:**

1. பொதுத்தமிழ்-3(2025), தமிழாய்வுத்துறை, தூய வளனார் கல்லூரி

**பார்வை நூல்கள்:**

1. சுப்பிரமணியன். ச. வே (உ.ஆ.), (2003), சங்க இலக்கியம் , கோவிலூர் மடாலயம்
2. கன்னியப்பன்.சிவ (உ.ஆ.), (2004),தனிப்பாடல் திரட்டு, முல்லை நிலையம்

**Websites and eLearning Sources:**

- *https://learnsangamtamil.com/*
- *https://www.tamilvu.org/library/*

| Course Outcomes | | |
|---|---|---|
| *CO No.* | *CO-Statements*<br><br>இப்பாடத்தின் நிறைவில் மாணவர்கள் | *Cognitive Levels (K-Level)* |
| *CO1* | சங்க இலக்கியத்தின் தனித்தன்மைகளை அறிவர் | *K1* |
| *CO2* | ஆற்றுப்படை இலக்கியங்களைக் கற்பதன் வழி ஆற்றுப்படுத்தும் முறையை இனங்காண்பர் | *K2* |
| *CO3* | இலக்கிய நெறிகளை நடப்பியலில் பயன்படுத்துவர் | *K3* |
| *CO4* | திணை துறைகளை நன்கு கற்பதன் வாயிலாகப் பாடல்களைப் பகுப்பாய்வர் | *K4* |
| *CO5* | யாப்பு, அணியைக் கற்பதன் வாயிலாகப் புதிய இலக்கிய வடிவங்களைப் படைக்கும் திறன் பெறுவர். | *K5* |

| Relationship Matrix | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| *Semester* | *Course Code* | | *Title of the Course* | | | | | | | *Hours* | *Credits* |
| *3* | *25UTA31GL03* | | பொதுத்தமிழ் - 3: General Tamil - 3 | | | | | | | *4* | *3* |
| *Course Outcomes* | *Programme Outcomes (POs)* | | | | | *Programme Specific Outcomes (PSOs)* | | | | | *Mean Score of COs* |
| | *PO1* | *PO2* | *PO3* | *PO4* | *PO5* | *PSO1* | *PSO2* | *PSO3* | *PSO4* | *PSO5* | |
| *CO1* | 1 | 2 | 2 | 2 | 1 | 3 | 3 | 2 | 3 | 2 | *2.1* |
| *CO2* | 3 | 2 | 1 | 3 | 2 | 3 | 2 | 2 | 3 | 1 | *2.2* |
| *CO3* | 3 | 2 | 1 | 3 | 2 | 3 | 2 | 2 | 3 | 2 | *2.3* |
| *CO4* | 1 | 3 | 2 | 1 | 2 | 3 | 2 | 2 | 2 | 3 | *2.1* |
| *CO5* | 2 | 3 | 2 | 2 | 1 | 3 | 2 | 2 | 2 | 2 | *2.1* |
| | | | | | | | | | *Mean Overall Score* | | *2.16 (High)* |

| Semester | Course Code | Title of the Course | Hours/Week | Credits |
|----------|-------------|---------------------|------------|---------|
| 3 | 25UFR31GL03 | Language French – 3 | 4 | 3 |

| | Course Objectives |
|---|---|
| 1 | Remember and Construct Narratives applying the *passé composé* with time indicators to recount past events |
| 2 | Understand and express personal memories using the *imparfait* in spoken and written communication to articulate likes, dislikes, and past events. |
| 3 | Analyze and interpret different housing options and engage in role-play scenarios to negotiate effectively. |
| 4 | Describe physical appearance and personality traits using appropriate adjectives, possessives, and comparatives to describe oneself |
| 5 | Evaluate future possibilities in science and communication, expressing hopes and possibilities using the *futur simple* and *conditionnel* |

**UNIT – I** (12 Hours)

1. Titre - Nouvelles vies
2. Lexique – Parcours de vie, la vie personnelle, scolaire et professionnelle
3. Grammaire – le passé composé -formation, la phrase négative, les indicateurs de temps
4. Production orale- exprimer son intention de faire quelque chose
5. Production écrite - organiser une activité de loisir

**UNIT – II** (12 Hours)

6. Titre - Je me souviens
7. Lexique – le souvenir : la mémoire, les paysages : à la mer, à la montagne
8. Grammaire – l'imparfait -formation, les pronoms 'y' et 'en', la place de l'adjectif
9. Production orale- exprimer le fait d'aimer et de ne pas aimer
10. Production écrite - raconter un souvenir

**UNIT – III** (12 Hours)

11. Titre - Comme à la maison
12. Lexique – le logement et la location, les frais et les services, le cadre de vie
13. Grammaire – les pronoms relatifs, la comparaison, la condition
14. Production orale- jeu de rôle – louer un logement
15. Production écrite - Décrire un logement

**UNIT – IV** (12 Hours)

16. Titre - Tous pareils, tous différents
17. Lexique – l'apparence physique, les traits de caractère
18. Grammaire – les adjectifs indéfinis, les pronoms possessifs, la comparaison
19. Production orale- faire un compliment
20. Production écrite - faire le portrait physique de quelqu'un

**UNIT – V** (12 Hours)

21. Titre - En route vers le futur
22. Lexique – les sciences et les techniques, les technologies de communication
23. Grammaire – le futur simple, la condition avec 'si', le pronom 'on'
24. Production orale- exprimer un espoir – imaginer à l'avenir
25. Production écrite - Décrire l'utilité d'un objet
26. Indian knowledge system - Analyzing narrative structures in Indian epics vs. French literature by comparing the Mahabharata's moral stories especially the Panchatantra stories to French fables. Practicing French future tense by making simple predictions about personal life by referencing Indian astrology (5%)

| Teaching Methodology | Project-Based Chronological Learning (PBL), Digital Media Integration, Genre-Specific Writing Approach, Scenario-based learning (SBL) |
|---|---|
| Assessment Methods | *Podcast creation:* Students record a short podcast episode on "Childhood Memory". (Rubric – assessed on ability to construct narratives using past tenses and expressing experiences.<br>*Debate:* Debate on "Apartment vs. House: Students must compare housing options, rental costs, and services. (Rubric – evaluated on analytical skills through structured argumentation)<br>*Timeline narrative activity:* Create a timeline about "A Typical College Day" (Rubric – Assessed on the ability to recall and construct a chronological narrative using past)<br>*Letter writing:* Write a letter to a friend describing personal experiences. Write a formal inquiry to a landlord about an apartment (Rubric – Assessed on formal and informal written communication skills) |

**Books for Study:**
1. Fafa, C., Gajdosova, F., Horquin, A., Pasquet, A., Perrard, M., Petitmengin, V., Sperandio, C., Dodin, M., &Veldeman-Abry, J. (2022). *Édito A2: Méthode de français* (2nd ed.). Didier FLE, Hatier. (p.13 – p.77)

**Books for Reference:**
1. Dauda, P., Giachino, L., &Baracco, C. (2016). *Génération A2*. Didier.
2. Girardet, J., &Pecheur, J. (2017). *Écho A2* (2nd ed.). CLE International

**Websites and eLearning Sources:**
1. https://www.bbc.co.uk/bitesize/subjects/zc7xpv4
2. https://conjuguemos.com/
3. https://www.busuu.com/en/course/learn-french-online
4. https://www.duolingo.com/learn
5. https://www.newsinslowfrench.com/

| **Course Outcomes** | | |
|---|---|---|
| **CO No.** | **CO-Statements**<br>On successful completion of this course, students will be able to | **Cognitive Levels (K-Level)** |
| **CO1** | Recall using vocabulary related to personal, academic, and professional life, and compose narratives using the *passé composé* and time indicators. | **K1** |
| **CO2** | Express experiences and preferences using *imparfait*to recount memories, express likes and dislikes accurately in spoken and written communication. | **K2** |
| **CO3** | Comparedifferent housing options and interpret rental-related expenses and services, and engage in role-play scenarios to negotiate accommodations. | **K3** |
| **CO4** | Characterise personal traits by describing physical appearance and personality traits, apply possessive and indefinite adjectives, and formulate comparisons effectively. | **K4** |
| **CO5** | Discuss advancements in science and communication, express hopes and possibilities using the *futur simple* and *conditionnel*structures. | **K5** |

| | Relationship Matrix | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Semester** | **Course Code** | **Title of the Course** | | | | | | | **Hours** | | **Credits** |
| **3** | **25UFR31GL03** | Language French – 3 | | | | | | | **4** | | **3** |
| **Course Outcomes** | **Programme Outcomes (POs)** | | | | | **Programme Specific Outcomes (PSOs)** | | | | | **Mean Score of COs** |
| | **PO1** | **PO2** | **PO3** | **PO4** | **PO5** | **PSO1** | **PSO2** | **PSO3** | **PSO4** | **PSO5** | |
| **CO1** | 2 | 3 | 2 | 3 | 2 | 3 | 1 | 3 | 3 | 3 | 2.5 |
| **CO2** | 3 | 2 | 3 | 3 | 1 | 2 | 2 | 2 | 2 | 2 | 2.2 |
| **CO3** | 3 | 1 | 3 | 3 | 2 | 2 | 2 | 2 | 1 | 1 | 2.0 |
| **CO4** | 2 | 2 | 2 | 2 | 2 | 1 | 2 | 1 | 1 | 1 | 1.6 |
| **CO5** | 2 | 3 | 3 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 2.6 |
| | | | | | | | | | **Mean Overall Score** | | **2.18 (High)** |

| Semester | Course Code | Title of the Course | Hours/Week | Credits |
|----------|-------------|---------------------|------------|---------|
| 3 | 25UHI31GL03 | Language Hindi - 3 | 4 | 3 |

| Course Objectives |
|---|
| To appreciate the features of Modern Hindi Prose |
| To understand the Hindi literature in association with the contemporary requirements |
| To enable the students to develop their effective communicative skills in Hindi |
| To strengthen the language competence among the students |
| To empower the students with globally employable soft skills |

**UNIT I** (12 Hours)
1. Tera Sneh na Khovoom
2. Samband Bodak
3. Reethikal - Namakarn
4. Chitra Varnan (Basic)

**UNIT II** (12 Hours)
5. Paribakshik Shabdavali
6. Smuchaya Bodak
7. Reethikal - Samajik Paristhithiya
8. Vachan Badalo

**UNIT III** (12 Hours)
9. Vismayadi Bodak
10. Reethikal - Sahithyik Paristhithiyam
11. Beerbal ki Chadurai
12. Patra-Patrikao mein Prakashit Gadyansho ka Patan (Basic)

**UNIT IV** (12 Hours)
13. Avikary Shabdh
14. Reethikal -  Main Divisions
15. Ling Badalo
16. Karak

**UNIT V** (12 Hours)
17. Reethikal - Visheshathayem
18. Anuvad
19. Bahu Ki Vidha (One Act Play)
20. Bathcheeth - Kaksha mein

| Teaching Methodology | Videos, PPT, Quiz, Group Discussion, Case Based Problem Solving |
|---|---|
| Assessment Methods | Quiz, Seminar, Assignment |

**Books for Study:**
1. Dr. Sanjeev Kumar Jain. (2023). *Anuwad: Siddhant Evam Vyavhar*. Kailash Pustak Sadan.
2. Kamathaprasad Gupth, M. (2021). *Hindi Vyakaran*, Anand Prakashan.
3. Dr. Sadananth Bosalae. (2020)*. kavya sarang*. Rajkamal Prakashan.

**Books for Reference:**
1. Ramdev. (2021). *Vyakaran Pradeep*. Hindi Bhavan.
2. Lakshman Prasad Singh. (2022). *Kavya Ke Sopan*. Bharathy Bhavan Prakashan.
3. Acharya Ramchandra Shukla. (2021). *Hindi Sahitya Ka Itihas*, Prabhat Prakashan.
4. Krishnakumar Gosamy. (2023). *Anuvad vigyan ki Bhumika*. Rajkamal Prakashan.

**Websites and eLearning Sources:**
1. https://www.hindwi.org/poets/jaishankar-prasad/all
2. https://youtu.be/e9wK-pYfVPc

3. https://www.amarujala.com/kavya/sahitya/sumitranandan-pant-best-hindi-poems
4. https://mycoaching.in/samuchchay-bodhak-kya-hai
5. https://www.subhshiv.in/2021/06/avikari-shabd.html

| | Course Outcomes | |
|---|---|---|
| **CO No.** | **CO-Statements**<br>On successful completion of the course, the student will acquire thelisted skills | **Cognitive Levels (K-Level)** |
| **CO1** | Categorize the poetics in some selective poems. | **K1** |
| **CO2** | Practical application of grammar. | **K2** |
| **CO3** | Justify the social & political conditions of Riti Kaal in Hindi Literature. | **K3** |
| **CO4** | Find out the dialects of Hindi language. | **K4** |
| **CO5** | Illustrate the importance given to family ethics by the youth in the modern period according to "Bahoo Ki vidha" One Act play. | **K5** |

| | | Relationship Matrix | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Semester** | **Course Code** | | **Title of the Course** | | | | | | **Hours** | **Credits** | |
| **3** | **25UHI31GL03** | | Language Hindi - 3 | | | | | | **4** | **3** | |
| **Course Outcomes** | **Programme Outcomes (POs)** | | | | | **Programme Specific Outcomes (PSOs)** | | | | | **Mean Score of COs** |
| | **PO1** | **PO2** | **PO3** | **PO4** | **PO5** | **PSO1** | **PSO2** | **PSO3** | **PSO4** | **PSO5** | |
| **CO1** | 3 | 2 | 3 | 3 | 2 | 3 | 2 | 1 | 3 | 2 | 2.4 |
| **CO2** | 3 | 2 | 3 | 2 | 2 | 3 | 2 | 3 | 2 | 3 | 2.5 |
| **CO3** | 3 | 2 | 2 | 3 | 1 | 3 | 2 | 3 | 2 | 3 | 2.4 |
| **CO4** | 2 | 3 | 3 | 2 | 3 | 2 | 3 | 3 | 2 | 1 | 2.4 |
| **CO5** | 3 | 2 | 2 | 3 | 3 | 2 | 1 | 3 | 2 | 3 | 2.4 |
| | | | | | | | | | | **Mean Overall Score** | **2.42 (High)** |

| Semester | Course Code | Title of the Course | Hours/Week | Credits |
|----------|-------------|---------------------|------------|---------|
| **3** | **25USA31GL03** | Language Sanskrit - 3 | **4** | **3** |

| Course Objectives |
|---|
| To introduce simple poetry in Sanskrit |
| To give an exposure to the Vedas and Vedangas |
| To acquaint students with epics and puranas |
| To train students in conjugation of verbs in future tense |
| To introduce Upasarga-s and their role in verb formations |

**UNIT I** (12 Hours)

Ramodantam, Balakandam (1-15 verses)

**UNIT II** (12 Hours)

Ramodantam, Balakandam (15-30 verses)

**UNIT III** (12 Hours)

Vedas – Vedangas vivaranam

**UNIT IV** (12 Hours)

Asta dasha Purana and Dashopanishads

**UNIT V** (12 Hours)

Upasargas and Bhavishyat Kaalah Vakya Prayoga

| Teaching Methodology | Videos, PPT, Blackboard, Demonstration, Exercises |
|---|---|
| Assessment Methods | Seminar, Quiz, Group Discussion. |

**Books for Study:**
  1. VEDIC LITERATURE
  2. RAMODANTAM

**Books for Reference:**
  1. Parameshwara, Ramodantam, LIFCO Chennai 2020
  2. R. S. Vadhyar & Sons, Book – sellers and publishers, Kalpathu, Palaghat – 678003, Kerala, south India, History of Sanskrit Literature 2021
  3. Kulapathy, K.M Saral Sanskrit Balabodh, Bharathita vidya bhavan, Munshimarg Mumbai – 400 007 2020

**Websites and eLearning Sources:**
  1. https://www.scribd.com/doc/210917188/Sri-Ramodantam-Sanskrit-Text-With-English-Translation
  2. http://www.sushmajee.com/ms-ppp/text/ved-notes.pdf
  3. https://occr.org.in/publication/Vedanga.pdf
  4. https://www.forgottenbooks.com/en/download/TheThirteenPrincipalUpanishadsTranslatedFromtheSanskrit_10017247.pdf
  5. https://www.learnsanskrit.org/guide/uninflected-words/the-upasarga/

| Course Outcomes | | |
|---|---|---|
| **CO No.** | **CO–Statements** <br> On successful completion of this course, students will be able to | **Cognitive Levels (K –Levels)** |
| **CO1** | Remember Characters and events of Ramayana | **K1** |
| **CO2** | Understand social ethics and moral duties. | **K2** |
| **CO3** | Apply the values learnt, in day-to-day life | **K2** |
| **CO4** | Appreciate the Vedic Philosophy | **K3** |
| **CO5** | Evaluate and create new words with upasargas | **K4** |

| Relationship Matrix | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Semester** | **Course Code** | | **Title of the Course** | | | | | | | **Hours** | **Credits** |
| **3** | **25USA31GL03** | | Language Sanskrit - 3 | | | | | | | **4** | **3** |
| **Course Outcomes** | **Programme Outcomes (PO)** | | | | | **Programme Specific Outcomes (PSO)** | | | | | **Mean Scores of COs** |
| | **PO1** | **PO2** | **PO3** | **PO4** | **PO5** | **PSO1** | **PSO2** | **PSO3** | **PSO4** | **PSO5** | |
| **CO1** | 1 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 2 | 1 | 2.3 |
| **CO2** | 3 | 3 | 2 | 3 | 3 | 2 | 2 | 3 | 3 | 3 | 2.7 |
| **CO3** | 3 | 3 | 1 | 3 | 3 | 1 | 1 | 3 | 3 | 3 | 2.4 |
| **CO4** | 2 | 2 | 1 | 2 | 3 | 2 | 2 | 3 | 2 | 1 | 2.0 |
| **CO5** | 3 | 3 | 2 | 3 | 2 | 2 | 3 | 3 | 3 | 2 | 2.6 |
| | | | | | | | | | **Mean Overall Score** | | **2.4 (High)** |

| Semester | Course Code | Title of the Course | Hours/Week | Credits |
|----------|-------------|---------------------|------------|---------|
| 3 | 25UEN32GE03C | **General English – 3:** English for Management Studies - 1 | 5 | 3 |

| Course Objectives |
|-------------------|
| To familiarize students with professional vocabulary knowledge in key topics connected with commerce and management. |
| To help the students develop academic English skills. |
| To improve business communication skills, including report writing, presentations, and discussions. |
| To apply language and business concepts in real-world academic and professional contexts. |
| To demonstrate creative and critical thinking skills in analysing business case studies and emerging business trends. |

**UNIT I: Business Communication** (15 Hours)

**Themes:**
1. Forms of Business Communication
2. Business Meetings and Discussions
3. Negotiation Skills in Business English
4. Cross-Cultural Communication in Business
5. Business Communication in the Digital Age

**Skill-Focus:** *Agenda preparation, Note-taking, Preparing minutes of the meeting, Handling cross-cultural interactions, Drafting emails, Discussing financial strategies, Conduting meetings, Listening to key ideas, Writing business letters*

**UNIT II: Entrepreneurship and Startups** (15 Hours)

**Themes:**
6. Emerging Trends in Entrepreneurship
7. Case Studies of Successful Entrepreneurs
8. Entrepreneurship in India
9. Government Initiatives and Support
10. Startup Ecosystem in India

**Skill-Focus:** *Pitching business ideas, Report writing, Research-based Writing, Creating a Business Model Canvas,*

**UNIT III: Financial Management** (15 Hours)

**Themes:**
11. Personal Financial Management
12. Sources of Finance
13. Behavioural Finance
14. Budgeting and Forecasting
15. Ethics in Financial Management

**Skill-Focus:** *Comprehending & summarizing financial reports, Drafting financial reports & proposals, Explaining financial Concepts to Clients, Channel conversion, Regulatory writing*

**UNIT IV: Marketing Strategies** (15 Hours)

**Themes:**
16. Segmentation, Targeting and Positioning
17. Marketing and Consumer Behaviour
18. Digital Marketing
19. Branding Strategies
20. Customer Relationship Management

**Skill-Focus:** *Writing marketing plans, conducting group discussions on market strategies, Summarising and synthesizing data, Expressing and supporting opinions, Ad. writing, Storytelling in business contexts*

**UNIT V: Human Resource Management** (15 Hours)

**Themes:** 21. Recruitment & Employee Development

22. Leadership and Management
23. Performance Management
24. Employee Relations and Conflict Management
25. Diversity and Inclusion in the Workplace

**Skill-Focus:** *Interviewing Techniques, Giving constructive feedback, Writing SMART goals, Listening to understand team concerns and provide appropriate solutions, Using inclusive language*

| Teaching Methodology | Lectures, Case Studies, Discussions, Reading Tasks, Writing Exercises, Workshops, Role-Playing, Group Projects, Debates, Storytelling Sessions |
|---|---|
| Assessment Methods | Seminars, Reports, Exhibits |

**Book for Study:**
- Joy, J.L. (in progress). *English for management studies - 1*. St. Joseph's College.

**Books for Reference:**
1. Allen, D. (2017). Business communication: A hands-on approach. Cengage Learning.
2. Bovee, C. L., & Thill, J. V. (2017). Business communication today (13th ed.). Pearson Education.
3. Chatterjee, S. (2020). Entrepreneurship and startup in India: Evolution, challenges and opportunities. Springer.
4. Ferrell, O. C., & Hartline, M. (2017). Marketing strategy (7th ed.). Cengage Learning.
5. Lencioni, P. (2002). The five dysfunctions of a team: A leadership fable. Jossey-Bass.
6. Stimpson, P., & Farquharson, A. (2014). *Cambridge International AS and A Level Business Coursebook with CD-ROM (3rd ed.).* Cambridge University Press.

**Websites and eLearning Sources:**
1. https://learnenglish.britishcouncil.org/business-english
2. https://www.businessenglishresources.com/#google_vignette
3. https://elt.oup.com/learning_resources/subjects/businessenglish/
4. The Power of Purpose in Business | Ashley M. Grice | TED
5. https://www.youtube.com/watch?v=j4QlG5jKpio
6. 6 Tips on Being a Successful Entrepreneur | John Mullins | TED
7. https://www.youtube.com/watch?v=eHJnEHyyN1Y
8. How to Take the BS Out of Business Speak | Bob Wiltfong | TED
9. https://www.youtube.com/watch?v=41fjuqBaUt4
10. Think Like A Grand Master Entrepreneur- 2019 Driven Keynote

| CO No. | Course Outcomes | |
|---|---|---|
| | **CO-Statements** | **Cognitive Levels (K-Level)** |
| | On successful completion of this course, the students will be able to | |
| CO1 | Understand key professional vocabulary related to commerce and management. | K1 |
| CO2 | Demonstrate an understanding of academic English skills through reading, writing, and listening tasks. | K2 |
| CO3 | Apply business communication skills in real-world scenarios, including report writing, presentations, and discussions. | K3 |
| CO4 | Analyse business case studies and emerging trends by applying language and business concepts to academic and professional contexts. | K4 |
| CO5 | Develop creative and critical thinking by evaluating and synthesizing business trends and case study information. | K5 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Relationship Matrix | | | | | |

| Semester | Course Code | | Title of the Course | | | | | | Hours | Credits |
|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 25UEN32GE03C | | General English – 3: English for Management Studies - 1 | | | | | | 5 | 3 |

| Course Outcomes | Programme Outcomes (POs) | | | | | Programme Specific Outcomes (PSOs) | | | | | Mean Score of COs |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | PO1 | PO2 | PO3 | PO4 | PO5 | PSO1 | PSO2 | PSO3 | PSO4 | PSO5 | |
| CO1 | 3 | 2 | 3 | 2 | 2 | 2 | 3 | 2 | 3 | 2 | 2.4 |
| CO2 | 2 | 3 | 2 | 3 | 2 | 2 | 3 | 3 | 3 | 3 | 2.6 |
| CO3 | 3 | 2 | 2 | 3 | 1 | 3 | 2 | 2 | 3 | 3 | 2.4 |
| CO4 | 2 | 3 | 3 | 3 | 2 | 3 | 3 | 2 | 3 | 2 | 2.6 |
| CO5 | 2 | 2 | 3 | 2 | 2 | 3 | 2 | 3 | 2 | 3 | 2.4 |
| Mean Overall Score | | | | | | | | | | | 2.48 (High) |

| Semester | Course Code | Title of the Course | Hours | Credits |
|---|---|---|---|---|
| 3 | 25UCC33CC05 | **Core Course – 5:** Corporate Accounting | 6 | 4 |

| Course Objectives |
|---|
| To Know the concept of shares and debentures |
| To learn to prepare the final accounts of the company according to the revised pattern |
| To understand the accounting standards relating to the company organisation |
| Able to prepare the consolidated balance sheet of holding and its subsidiary companies |
| To learn the different schedules of Banking company financial statement |

**UNIT I**:  **Issue of shares and debentures**                              **(18 Hours)**

Shares and debentures – issue -Application- Allotment – Calls-in-arrears and Calls-in-advance forfeiture of shares -reissue of shares Redemption of preference shares (only)

**UNIT II: Company final accounts**                              **(18 Hours)**

Company Final Accounts – Computation of Managing personnel remuneration - Preparation of Final accounts: Revised statement of profit and loss and Balance sheet.

**UNIT III: Amalgamation and restructuring**                              **(18 Hours)**

Amalgamation- In nature of merger-In nature of Purchase-Net Asset Method-Net payment method. Absorption**:** Net asset Method-Net Payment Method-Intrinsic Value method. External Reconstruction: Lump sum purchase Price-Net payment method.

**UNIT IV: Holding and consolidated financial statement**                              **(18 Hours)**

Holding Company- Subsidiary company- Preparation of consolidated balance sheet – cost of control – capital profit – revenue profit- Minority interest

**UNIT V: Banking Company**                              **(18 Hours)**

Banking Company accounts**:** Legal requirements – Accounting treatments – Income recognition – Asset classification – Provisions on bills discounted – Preparation of profit & loss a/c and balance sheet.

**THEORY 20% & PROBLEM 80%**

| Teaching Methodology | PPT, Videos and group discussion and case studies |
|---|---|
| Assessment method | MCQ, Assignment, test and seminar |

**Books for Study:**
   **1.** S. P. Jain and K. L. Narang (Volume I & II)**,** Corporate Accounting, [23rd] Edition, Kalyani Publications, India. 2023

**Books for Reference:**
   1. T. S Reddy and A. Murthy corporate Accounting Margam Publication 2020
   2. Dr. S. M. Shukla, Dr. K. L. Gupta, *Corporate Accounting*, 52nd Edition, Sahitya Bhawan Publication, India, 2018.
   3. Bhushan Kumar Goyal, *Basic corporate Accounting (B.Com), 6th Edition,* Taxmann Publications, India, 2020.
   4. R.L. Gupta, M. Radhaswamy, *Advanced Accountancy*, Seventeenth Edition, Sultan Chand Sons, India,2018.

**Websites and eLearning Sources:**
   1. https://www.gacwrmd.in/learning/Commerce/Corporate%20Accounting1.pdf
   2. https://testbook.com/ugc-net-commerce/corporate-accounting
   3. https://ddceutkal.ac.in/Downloads/UG_SLM/Commerce/Corporate_Accounting.pdf

| Course Outcomes | | |
|---|---|---|
| **CO. No.** | **CO- Statements** | **Cognitive Level** |
| | On Successful completion of this course the students will be able to | **(K- level)** |
| **CO1** | Know the concepts of corporate sectors and   gain knowledge on company concepts | **K1** |
| **CO2** | Make out the legal requirements for formation of a company and operations of a bank | **K2** |
| **CO3** | Manipulate the accounting entries of mergers and acquisition of a company | **K3** |
| **CO4** | Prepare the financial statements of a company according to the revised pattern | **K4** |
| **CO5** | Analyze the causes for merger and restructuring of companies | **K5** |

| Relationship Matrix | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Semester** | **Course Code** | | **Title of the Course** | | | | | | | **Hours** | **Credits** |
| **3** | **25UCC33CC05** | | **Core Course – 5:** Corporate Accounting | | | | | | | **6** | **4** |
| **Course Outcomes ↓** | **Programme Outcomes (PO)** | | | | | **Programme Specific Outcomes (PSO)** | | | | | **Mean Scores of COs** |
| | **PO1** | **PO2** | **PO3** | **PO4** | **PO5** | **PSO1** | **PSO2** | **PSO3** | **PSO4** | **PSO5** | |
| **CO1** | 3 | 2 | 3 | 2 | 2 | 3 | 2 | 2 | 2 | 2 | 2.3 |
| **CO2** | 2 | 3 | 3 | 3 | 2 | 3 | 3 | 2 | 2 | 2 | 2.5 |
| **CO3** | 2 | 3 | 3 | 3 | 2 | 2 | 3 | 3 | 2 | 2 | 2.5 |
| **CO4** | 2 | 2 | 3 | 3 | 2 | 2 | 3 | 3 | 2 | 2 | 2.4 |
| **CO5** | 2 | 3 | 3 | 2 | 2 | 2 | 3 | 3 | 2 | 3 | 2.5 |
| | | | | | | | | | **Mean Overall Score** | | 2.44 (High) |

| Semester | Course Code | Title of the Course | Hours | Credits |
|---|---|---|---|---|
| 3 | 25UCC33CC06 | **Core Course – 6:** Database Management System | 3 | 2 |

| Course Objectives |
|---|
| To understand the basic concepts and applications of database system |
| To familiarize Entity Relationship model for a database |
| To describe the basics of SQL |
| To emphasize the importance of SQL joins and transactions |
| To analyze the SQL functions and procedures |

## UNIT-I: Introduction (9 Hours)

Database-System Applications- Purpose of Database Systems- View of Data- Database Languages-Relational Databases- Database Design- Data Storage and Querying- transaction Management- Database Architecture- Data Mining and Information Retrieval- Specialty Database- Database Users and Administrators.

## UNIT – II: Introduction to the Relational Model: (9 Hours)

Structure of Relational Databases-Database Schema-Keys-Schema Diagrams-Relational Query Languages-Relational Operations.

## UNIT – III: SQL (9 Hours)

Introduction – Overview of the SQL Query Language-SQL Data Definition-Basic Structure of SQL Queries - Additional Basic Operation - Set Operations- Null Values- Aggregate Functions - Nested Sub queries.

## UNIT– IV: Intermediate SQL (9 Hours)

Join Expressions- Views –transactions - Integrity Constraints-SQL Data Types and Schemas-Authorization: Granting and Revoking of Privileges- roles-Authorization on Views-Authorizations on Schema-Transfer of Privileges-Revoking of Privileges.

## UNIT – V: Advanced SQL: (9 Hours)

Accessing SQL From a Programming Language- Functions and Procedures-Triggers-Recursive Queries-Advanced Aggregation Features.

| Teaching Methodology | Chalk and talk, PPT, Videos, Demonstration |
|---|---|
| Assessment Methods | Chalk and board, MCQ, diagnostic assessment |

**Books for Study:**
1. Silberschatz, Korth (2011). Data base System Concepts, Sixth Edition, McGraw hill, New York.

**Books for Reference:**
1. Suresh K Basendra (2001). Computers Today, 1st Edition, Galgotia publication private Ltd., New Delhi.
2. Jane Calabria and Dorothy Burke (1998). Microsoft Office user Specialist, Power Point 97 Exam Guide,1st Edition, PHI New Delhi.
3. Taxali, R. k (1998). PC Software for WINDOWS Made Simple,1st Edition, Tata McGraw– Hill Publishing Company Limited, New Delhi.

**Websites and eLearning sources:**
1. https://www.techtarget.com/searchdatamanagement/definition/database-management-system
2. https://www.tpointtech.com/dbms-tutorial
3. https://www.scaler.com/topics/dbms/
4. https://www.spiceworks.com/tech/cloud/articles/database-management-systems-dbms/
5. https://www.oracle.com/database/technologies/appdev/plsql.html

| Course Outcomes | | |
|---|---|---|
| **CO No.** | **CO- Statements**<br>On successful completion of this course, students will be able to | **Cognitive Levels (K- level)** |
| **CO1** | Understand the fundamental concepts of database management systems | **K1** |
| **CO2** | Apply Entity-Relationship (ER) modeling and Relational Model techniques to design efficient databases. | **K2** |
| **CO3** | Write and execute complex SQL queries to retrieve and manipulate data | **K3** |
| **CO4** | Demonstrate an understanding of relational model concepts, such as SELECT, PROJECT, JOIN, and DIVISION Operations | **K4** |
| **CO5** | Apply SQL queries to interact with Database | **K5** |

| Relationship matrix | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Semester** | **Course Code** | | **Title of the Course** | | | | | | | **Hours** | **Credits** |
| **3** | **25UCC33CC06** | | **Core Course – 6:** Database Management System | | | | | | | **3** | **2** |
| **Course Outcomes** | **Programme Outcomes (PO)** | | | | | **Programme Specific Outcomes (PSO)** | | | | | **Mean Scores of COs** |
| | **PO1** | **PO2** | **PO3** | **PO4** | **PO5** | **PSO1** | **PSO2** | **PSO3** | **PSO4** | **PSO5** | |
| **CO1** | 3 | 3 | 2 | 1 | 2 | 3 | 3 | 2 | 1 | 2 | 2.2 |
| **CO2** | 3 | 2 | 2 | 2 | 1 | 3 | 3 | 3 | 2 | 2 | 2.3 |
| **CO3** | 2 | 1 | 3 | 2 | 2 | 2 | 3 | 2 | 2 | 2 | 2.1 |
| **CO4** | 3 | 3 | 3 | 1 | 2 | 3 | 2 | 2 | 1 | 2 | 2.2 |
| **CO5** | 2 | 3 | 3 | 1 | 2 | 2 | 3 | 3 | 2 | 1 | 2.3 |
| | | | | | | | | | | **Mean Overall Score** | **2.22 (High)** |

| Semester | Course Code | Title of the Course | Hours | Credits |
|---|---|---|---|---|
| 3 | 25UCC33CP03 | **Core Practical – 3:** Oracle SQL | 2 | 2 |

| Course Objectives |
|---|
| To understand the Fundamentals of SQL |
| To learn to create, modify, and delete database schemas, tables, and constraints |
| To perform Data Manipulation Using SQL (DML) |
| To develop and Execute SQL Programs |
| To implement operators, functions and joins |

**EXERCISES**

1. Table creation using various constraints.
   - i)DDL
   - ii)DML
   - iii)DCL
   - iv)TCS
2. Simple Queries (select, sorting and Filter)
3. SQL Comments (single line and multiline)
4. Built in Functions
   (Group Function, String Function, Date and time Function, Aggregate Function)
5. Operators (Arithmetic, Relational, logical, Miscellaneous and Set operators)
6. Joining (Inner, Left, Right and Full join)
7. Sub Queries and Nested Queries
8. Views
   - i)create view
   - ii)update view
   - iii)Drop view

| Teaching Methodology | Lab practical, demonstration |
|---|---|
| Assessment Methods | Practical Test |

**Books for Study:**
1. Bipin C. Desai (2015). An introduction to Database Systems, Revised Edition, Published by Galgotia Pvt. Ltd., Delhi.

**Books for Reference:**
1. Suresh K Basendra (2001). Computers Today, 1st Edition, Galgotia publication private Ltd., New Delhi.
2. Jane Calabria and Dorothy Burke (1998). Microsoft Office user Specialist, Power Point 97 Exam Guide,1st Edition, PHI New Delhi.
3. Taxali, R. k (1998). PC Software for WINDOWS Made Simple,1st Edition, Tata McGraw– Hill Publishing Company Limited, New Delhi.

**Websites and eLearning sources:**
1. https://www.techtarget.com/searchdatamanagement/definition/database-management-system
2. https://www.tpointtech.com/dbms-tutorial
3. https://www.scaler.com/topics/dbms/
4. https://www.spiceworks.com/tech/cloud/articles/database-management-systems-dbms/
5. https://www.oracle.com/database/technologies/appdev/plsql.html

| Course Outcomes | | |
|---|---|---|
| **CO No.** | **CO-Statements** On successful completion of this course, students will be able to | **Cognitive Levels (K- level)** |
| **CO1** | Understand the importance of databases in real-world applications. | **K1** |
| **CO2** | Apply Entity-Relationship (ER) modeling and Relational Model techniques to design efficient databases. | **K2** |
| **CO3** | Write SQL queries for data retrieval (SELECT), modification (INSERT, UPDATE, DELETE), and schema management (CREATE, ALTER, DROP). | **K3** |
| **CO4** | Understand PL/SQL Concepts and Architecture | **K4** |
| **CO5** | Write and Execute PL/SQL Programs | **K5** |

| Relationship Matrix | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Semester** | **Course Code** | | **Title of the Course** | | | | | | | **Hours** | **Credits** |
| 3 | 25UCC33CP03 | | Core Practical – 3: Oracle SQL | | | | | | | 2 | 2 |
| **Course Outcomes** | **Programme Outcomes (PO)** | | | | | **Programme Specific Outcomes (PSO)** | | | | | **Mean Scores of COs** |
| | **PO1** | **PO2** | **PO3** | **PO4** | **PO5** | **PSO1** | **PSO2** | **PSO3** | **PSO4** | **PSO5** | |
| **CO1** | 3 | 3 | 2 | 1 | 2 | 3 | 3 | 2 | 1 | 2 | 2.2 |
| **CO2** | 3 | 2 | 2 | 2 | 1 | 3 | 3 | 3 | 2 | 2 | 2.3 |
| **CO3** | 2 | 1 | 3 | 2 | 2 | 2 | 3 | 2 | 2 | 2 | 2.1 |
| **CO4** | 3 | 3 | 3 | 1 | 2 | 3 | 2 | 2 | 1 | 2 | 2.2 |
| **CO5** | 2 | 3 | 3 | 1 | 2 | 2 | 3 | 3 | 2 | 1 | 2.3 |
| | | | | | | | | | **Mean Overall Score** | | **2.22 (High)** |

| Semester | Course Code | Title of the Course | Hours/Week | Credits |
|---|---|---|---|---|
| 3 | 25UCC33AO01A | **Allied optional - 1:** Elements of Mathematics | 6 | 4 |

| Course Objectives |
|---|
| To provide basic knowledge of Mathematics to the students who did not study Mathematics at the higher secondary level. |
| To train the students in the working techniques of various branches of Mathematics. |
| To train the students to understand the concept of permutation and combination problems. |
| To train the students to know about the Applications of Matrices. |
| To motivate the students to get the basic knowledge of AP and GP. |

**UNIT I** (18 Hours)

Indices - Positive indices - Fractional indices - Operations with power functions (simple problems only)

**UNIT II** (18 Hours)

Logarithms - Laws and operations - Change of base (simple problems only)

**UNIT III** (18 Hours)

Permutations - Factorial Notations - Permutation of n different things - Circular permutation - Permutation of things not all different - Restricted permutation - Combinations - Complementary Theorems - Restricted combinations (concepts & simple problems only)

**UNIT IV** (18 Hours)

Arithmetic progression - Sum of a series in A.P - Geometric progression - Sum of a series in G.P (simple problems only).

**UNIT V** (18 Hours)

Matrices - types of matrices - scalar multiplication of a matrix - equality of matrix - matrix operations - addition and subtraction properties - multiplication properties - Transpose of a matrix - determinants of a square matrix of order 2 and 3 - Cramer's rule - solution of three linear equations - inverse of a matrix - simultaneous equations two variables only (simple problems only).

| Teaching Methodology | Chart, PPT, chalk and talk |
|---|---|
| Assessment Methods | Seminar, Snap Test, MCQ |

**Books for Study:**
1. Sanchetti, D.C., & Kapoor, V.K. (2002) *Business Mathematics*, (11th Ed.). Sultan Chand and Sons, New Delhi.
   **Unit-I** Chapter 6 (Sec: 6.1 - 6.4; Pages 142-163)
   **Unit -II** Chapter 7 (Sec: 7.0 -7.1, Pages 191-211)
   **Unit-III** Chapter 9 (Sec: 9.2 - 9.10; Pages 302-310, 318-327)
   **Unit-IV** Chapter 12 (Sec: 12.1, 12.2, 12.4, 12.5; Pages 384-392, 411-424).
   **Unit-V** Chapter 20 (Sec: 20.1-20.15; Pages 791-828), Chapter 20 (20.22, 20.23; Pages 840-846).

**Books for Reference:**
1. Vittal, P.R. (2001). *Business Mathematics*, Margham Publications, New Delhi.
2. Kapoor, V.K. (2009) *Introductory to Business Mathematics*. S. Chand and Sons, New Delhi.

**Websites and eLearning Sources:**
1. https://www.hec.ca/en/mshc/help-topics/mathematics-notions/Matrix_determinants.pdf
2. https://www.ulm.edu.pk/departments/admin/upload/downloads/202110030921.pdf

| Course Outcomes | | |
|---|---|---|
| **CO No.** | **CO-Statements**<br>On successful completion of this course, the students will be able to | **Cognitive Levels (K-Level)** |
| **CO1** | Have knowledge in indices, logarithms, arithmetic progression and matrices. | **K1** |
| **CO2** | Understand the different techniques available in matrices. | **K2** |
| **CO3** | Apply learnt techniques on real life business problems. | **K3** |
| **CO4** | Illustrate various learned techniques with examples. | **K4** |
| **CO5** | Identify to apply learnt techniques to business problems. | **K5** |

| Relationship Matrix | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Semester** | **Course Code** | **Title of the Course** | | | | | | | | **Hours** | **Credits** |
| 3 | 25UCC33AO01A | **Allied optional - 1:** Elements of Mathematics | | | | | | | | 6 | 4 |
| **Course Outcomes** | **Programme Outcomes (POs)** | | | | | **Programme Specific Outcomes (PSOs)** | | | | | **Mean Score of COs** |
| | **PO1** | **PO2** | **PO3** | **PO4** | **PO5** | **PSO1** | **PSO2** | **PSO3** | **PSO4** | **PSO5** | |
| **CO1** | 2 | 1 | 2 | 2 | 1 | 2 | 3 | 3 | 3 | 2 | **2.1** |
| **CO2** | 2 | 1 | 1 | 2 | 2 | 3 | 2 | 3 | 2 | 3 | **2.1** |
| **CO3** | 2 | 3 | 1 | 2 | 1 | 3 | 3 | 3 | 2 | 3 | **2.3** |
| **CO4** | 2 | 3 | 1 | 2 | 1 | 3 | 3 | 3 | 2 | 3 | **2.3** |
| **CO5** | 1 | 2 | 1 | 2 | 2 | 3 | 2 | 3 | 3 | 3 | **2.2** |
| | | | | | | | | | **Mean Overall Score** | | **2.2 (High)** |

| Semester | Course Code | Title of the Course | Hours/Weeks | Credits |
|----------|-------------|---------------------|-------------|---------|
| 3 | 25UCC33AO01B | **Allied Optional - 1:** Business Mathematics | 6 | 4 |

| Course Objectives |
|---|
| To introduce the fundamentals of Mathematics |
| To train the students in the basics of Mathematics |
| To train the students in the working techniques of various branches of Mathematics. |
| To make the students Understand permutation and combination |
| To introduce the concept of AP and GP |

## UNIT I (18 Hours)

Indices - positive indices - fractional indices - operations with power functions logarithms - laws and operations - change of base (simple problems only)

## UNIT II (18 Hours)

Permutations - Kramp's factorial notation- permutations of n different things - Circular permutations - Permutations of things not all different - combinations - Combination of things not all different. (concepts & simple problems only)

## UNIT III (18 Hours)

Arithmetic progression - Sum of series in A.P - Geometric progression- Sum of series in G.P (simple problems only).

## UNIT IV (18 Hours)

Matrices - types of matrices - operations on matrices - determinants of order 2 and 3 - Cramer's rule - inverse of a matrix of order 2 and 3 - solving simultaneous equations using matrices and determinants (simple problems only).

## UNIT V (18 Hours)

Linear programming - mathematical formulation of LP Model - graphical method-simplex method (simple problems & business applications only)

| Teaching Methodology | Chalk and Talk method, Problem solving |
|----------------------|----------------------------------------|
| Assessment Methods | Seminar, Snap Test, MCQ |

**Books for Study:**
1. Sanchetti, D.C., & Kapoor, V.K. (2002) *Business Mathematics*, (11th Ed.). Sultan Chand and Sons, New Delhi
   **Unit-I** Chapter 6 (Sec: 6.1- 6.4; Pages 142-163), Chapter 7 (Sec: 7.0-7.2; Pages 191 212).
   **Unit-II** Chapter 9(Sec: 9.2- 9.11; Pages 302-331),
   **Unit-III** Chapter 12 (Sec: 12.1,12.2 & 12.4, 12.5; Pages 384-396 & 411-424).
   **Unit-IV** Chapter 20(Sec: 20.1-20.15; Pages 791-828), Chapter 20 (20.22, 20.23; Pages 840- 849).
   **Unit-V** LP 1 - LP 40

**Books for Reference:**
1. Vittal, P.R. (2001). *Business Mathematics*, Margham Publications, New Delhi.
2. Kapoor, V.K. (2009) *"Introductory to Business Mathematics"*, S.Chand and Sons, New Delhi.
3. Navaneetham, (2008). *Business Mathematics and Statistics*. Jai Publishers.

## Course Outcomes

| CO No. | CO-Statements<br>On successful completion of this course, students will be able to | Cognitive Levels (K-Level) |
|---|---|---|
| CO1 | Have knowledge in indices, logarithms, arithmetic progression, matrices and LPP. | K1 |
| CO2 | Understand the different techniques available in differentiation, integration, matrices and LPP to solve problems. | K2 |
| CO3 | Apply learnt techniques on real life business problems. | K3 |
| CO4 | Illustrate various learned techniques with examples. | K4 |
| CO5 | Evaluate business problems like profit maximization, cost minimization, consumer's and producer's surplus cusing the learned techniques. | K5 |

## Relationship Matrix

| Semester | Course Code | Title of the Course | | | | | | | | | Hours | Credits |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 25UCC33AO01B | Allied Optional - 1: Business Mathematics | | | | | | | | | 6 | 4 |

| Course Outcomes | Programme Outcomes (POs) | | | | | Programme Specific Outcomes (PSOs) | | | | | Mean Score of COs |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | PO1 | PO2 | PO3 | PO4 | PO5 | PSO1 | PSO2 | PSO3 | PSO4 | PSO5 | |
| CO1 | 2 | 1 | 2 | 2 | 1 | 2 | 3 | 3 | 3 | 2 | 2.1 |
| CO2 | 2 | 1 | 1 | 2 | 2 | 3 | 2 | 3 | 2 | 3 | 2.1 |
| CO3 | 2 | 3 | 1 | 2 | 1 | 3 | 3 | 3 | 2 | 3 | 2.3 |
| CO4 | 2 | 3 | 1 | 2 | 1 | 3 | 3 | 3 | 2 | 3 | 2.3 |
| CO5 | 1 | 2 | 1 | 2 | 2 | 3 | 2 | 3 | 3 | 3 | 2.2 |
| | | | | | | | | | | Mean Overall Score | 2.2 (High) |

| Semester | Course Code | Title of the Course | Hours/Week | Credits |
|---|---|---|---|---|
| 3 | 25UHE34VE03A | **Value Education - 3:** Social Ethics - 1 | 2 | 1 |

| Course Objectives |
|---|
| To gain a comprehensive understanding of the principles advocated in social ethics. |
| To examine the different types of political systems in a thorough manner. |
| To comprehend the role and obligations of the educated youth. |
| To evaluate the conduct of the elected representatives in a detailed manner. |
| To thoughtfully analyze the various forms of cyber-crime. |

## UNIT I: Introduction to Social Ethics (6 Hours)

Social ethics, social ethics and social responsibility, social ethics play an important role on the areas, religion influences social changes and vice versa, secularism. Social ethics and corporate dynamics, forms of social ethics.

## UNIT II: The Economic and Political System of Today (6 Hours)

Planned economy and communism - market economy and capitalism- socialism - mixed economy -the emerging market economy - political system- totalitarian system- oligarchic system.

## UNIT III: Integrity in Public Life National Integration (6 Hours)

What is Integrity, Public Life, Integrity and Public Life, Integrity in a Democratic State, India as Democratic State, Behavior of a elected representative of India, Noticeable degradation acts of elected Representatives, Suggestions to stem this rot, Types of integrity, Transparency can be a guarantee for integrity.

## UNIT IV: Cyber Crime (6 Hours)

Business Ethics, Business ethics permeates the whole organization, measuring business ethics, The Vital factors highlighting the importance of business ethics, Cyber-crime, Strategies in committing Cyber Crimes, Factors aiding Cyber Crime, computer Hacking, Cyber Bullying, Telecommunications piracy, Counter Measures to Cyber Crime, Ethical Hacking.

## UNIT V: Social Integration (6 Hours)

Global challenges, the future is with the Educational Youth, Cost of the Sacrifice, Crusaders against corruption, Responsibility of the Educated Youth, Positive Global Scenario, right to Education, Eradicating gender inequality, Sustainable Human Development, Social Integration, Elimination Crime, Integration with Global Market

| Teaching Methodology | Lecture, PPT, Power point |
|---|---|
| Assessment Methods | Online Test, Group Discussions |

**Books for Study:**
1. Department of Human Excellence. (2021). *Formation of Youth*, St Joseph's College (Autonomous), Tiruchirappalli.

**Books for Reference:**
1. Arora, R.K. (2014). *Ethics, Integrity and Values*. Public Service Paperback.
2. Cunningham, D. (2004). *There's something happening here: The new left, the Klan, and FBI counterintelligence*. Berkeley: University of California Press.
3. Mali, P. (2017). *Cyber law & Cyber Crimes simplified*. Cyber Info Media Paperback.
4. Richardson, M. (2019). *Cyber Crime: Law and Practice Hardcover - Import*.

**Websites and eLearning Sources:**
1. https://cybercrime.gov.in/
2. https://open.lib.umn.edu/sociology/chapter/14-2-types-of-political-systems/
3. https://www.esv.org/resources/esv-global-study-bible/social-ethics/
4. https://en.wikipedia.org/wiki/Political_system

| Course Outcomes | | |
|---|---|---|
| **CO No.** | **CO-Statements** | **Cognitive Levels (K - Level)** |
| | On successful completion of this course, students will be able to | |
| **CO1** | Know the responsibility of the educated youth. | **K1** |
| **CO2** | Understand the values prescribed under social ethics. | **K2** |
| **CO3** | Apply their minds critically to the various types of cyber-crime. | **K3** |

| Relationship Matrix | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Semester** | **Course Code** | **Title of the Course** | | | | | | | **Hours/Week** | **Credits** | |
| 3 | **25UHE34VE03A** | **Value Education - 3:** Social Ethics - 1 | | | | | | | 2 | 1 | |
| **Course Outcomes** | **Programme Outcomes (POs)** | | | | | **Programme Specific Outcomes (PSOs)** | | | | | **Mean Scores of COs** |
| | **PO1** | **PO2** | **PO3** | **PO4** | **PO5** | **PSO1** | **PSO2** | **PSO3** | **PSO4** | **PSO5** | |
| **CO1** | 3 | 3 | 3 | 3 | 2 | 3 | 2 | 2 | 3 | 3 | **2.7** |
| **CO2** | 3 | 2 | 2 | 2 | 3 | 2 | 2 | 3 | 2 | 2 | **2.3** |
| **CO3** | 2 | 3 | 3 | 3 | 2 | 3 | 3 | 3 | 3 | 3 | **2.8** |
| | | | | | | | | | **Mean Overall Score** | | **2.6 (High)** |

| Semester | Course Code | Title of the Course | Hours/Week | Credits |
|---|---|---|---|---|
| 3 | 25UHE34VE03B | **Value Education - 3:** Religious Doctrine - 1 | 2 | 1 |

| Course Objectives |
|---|
| To impart knowledge to students about Salvation History |
| To familiarize students with the life and mission of Jesus Christ |
| To help Students understand the Holy Spirit |
| To empower students on Gospel Values |
| To equip the students about Mother Mary |

**UNIT I** (6 Hours)

God of salvation

**UNIT II** (6 Hours)

Life & Mission of Jesus Christ

**UNIT III** (6 Hours)

The Holy Spirit

**UNIT IV** (6 Hours)

Gospel Values

**UNIT V** (6 Hours)

Mary, the mother of God

| Teaching Methodology | Power point, Assignment and Group discussion |
|---|---|
| Assessment Methods | Online Test, Group Discussions |

**Books for Study:**
1. Department of Human Excellence. (2022). *Fullness of Life.* St. Joseph's College, Tiruchirappalli.

**Books for Reference:**
1. (1994). *Compendium: Catechism of the Catholic Church.* Bengaluru: Theological Publications in India.
2. Holy Bible (NRSV).

| Course Outcomes | | |
|---|---|---|
| **CO No.** | **CO-Statements** | **Cognitive Levels (K - Level)** |
| | On successful completion of this course, students will be able to | |
| CO1 | Understand the Salvation History | K1 |
| CO2 | Grasp to the life and purpose of Jesus Christ | K2 |
| CO3 | Live out the teachings of the Gospel | K3 |

| Relationship Matrix | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Semester | Course Code | | Title of the Course | | | | | Hours/Week | | Credits |
| 3 | 25UHE34VE03B | | Value Education - 3: Religious Doctrine - 1 | | | | | 2 | | 1 |
| **Course Outcomes** | **Programme Outcomes (POs)** | | | | | **Programme Specific Outcomes (PSOs)** | | | | **Mean Scores of COs** |
| | PO1 | PO2 | PO3 | PO4 | PO5 | PSO1 | PSO2 | PSO3 | PSO4 | PSO5 | |
| CO1 | 3 | 3 | 3 | 3 | 2 | 3 | 2 | 2 | 3 | 3 | 2.7 |
| CO2 | 3 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 2 | 2 | 2.5 |
| CO3 | 2 | 2 | 3 | 3 | 2 | 2 | 3 | 3 | 3 | 3 | 2.6 |
| | | | | | | | | **Mean Overall Score** | | | 2.6 (High) |

| Semester | Course Code | Title of the Course | Hours/Week | Credits |
|---|---|---|---|---|
| 3 | 25USS34SE01 | **Skill Enhancement Course - 1:** Soft Skills | 2 | 1 |

| Course Objectives |
|---|
| To help students understand, practice, and improve their communication skills |
| To enable students with effective presentation skills |
| To help students attend interviews confidently and participate effectively in group discussions |
| To make students realise their potential and excel on personal as well as professional grounds |
| To develop the thinking skills of students for better performance in competitive exams, interviews and u discussions |

## UNIT I Communication Skills                                                    (6 Hours)
*Basics of Communication*: Importance of Good Communication Skills, Types of Communication Skills, Verbal Communication, Non-verbal Communication, Tips for Improving Nonverbal Communication, Communication Styles, Barriers to Communication, Ways To Improve Communication Skills, Practicum. *Professional Grooming*: How to Create the Impact for that First Impression, Presentation Skills, Developing Handouts, Developing Notes, Adding Visual and Audio Effects, Practicum

## UNIT II Resume Writing & Interview Skills                                       (6 Hours)
*Resume Writing*: The Purpose of a Resume, Finding a Job & Making a Career, Length of Resume, Order of Resume, Tailoring the Resume, What your Resume should include, Some Tips for Listing a Bachelor's degree on Your Resume, What NOT to put on your Resume, Formatting Resume, Difference between Resume, Biodata and Curriculum Vitae, Preparation of a Resume *Interview Skills*: Meaning of Interview, Types of Interviews, How to get ready for the big day?, Appropriate Attire, Etiquette, Mastering the Art of Meet and Greet, Resume - Points to Remember, Practicum *Group Discussion:* Why is GD Essential?, Factors that influence GD, Outcome of GD, Tips for participation in a GD, Useful phrases for GD, Success Tips in GD, Practicum.

## UNIT III Personal Effectiveness                                                 (6 Hours)
*Self-Discovery*: Characteristics of Personality, Kinds of Self, Who am I?, Personality Inventory Table *Goal Setting*: Why do Goal Setting?, Goal Setting Process, Smart Goals

## UNIT IV Numerical Ability                                                        (6 Hours)
Average, Simple Interest, Compound Interest, Profit and Loss, Area, Volume and Surface Area

## UNIT V                                                                            (6 Hours)
*Verbal Reasoning*: Series Completion, Analogy. *Non-Verbal Reasoning*.

| Teaching Methodology | Chart, PPT, chalk and talk, Video Presentation |
|---|---|

**Books for Study:**
1. Balaiah, J., & Joy, J. L. (2024). Straight from the Traits: Securing Soft Skills, (Revised 3rd Ed.). St. Joseph's College, Tiruchirappalli.

**Books for Reference:**
1. Aggarwal, R.S. (2010). A Modern Approach to Verbal and Non-Verbal Reasoning, S. Chand.
2. Balaiah, J. & Joy, J. L. (2018). Winners in the Making: A primer on soft skills. St. Joseph's College, Tiruchirappalli.
3. Covey S. R. (2004). The 7 Habits of Highly Effective People: Restoring the Character Ethic (Rev. ed.). Free Press.
4. Egan, G. (1994). The Skilled Helper (5th Ed.). Pacific Grove, Brooks/Cole.
5. Khera, S. (2014). You Can Win. Macmillan Books.
6. Martin, Y. (2005). Hiring the Best: A Manager 's Guide to Effective Interviewing and Recruiting, (5th Ed.). Adams Media.
7. Sankaran, K., & Kumar, M. (2010). Group Discussion and Public Speaking, (5th Ed.). M.I. Publishers.
8. Trishna. (2012). How to do well in GDS & Interviews, (3rd Ed.). Pearson Education.

**Websites and eLearning Sources:**

1. https://www.indeed.com/career-advice/resumes-cover-letters/communication-skills
2. https://www.seek.com.au/career-advice/article/50-communication-skills-for-the-workplace-your-resume
3. https://southeast.iu.edu/career/files/power-phrases.pdf
4. https://dese.ade.arkansas.gov/Files/20201209124449_Professional-Communication.docx
5. https://www.dol.gov/sites/dolgov/files/ETA/publications/00-wes.pdf
6. https://www.tmu.ac.in/other_websites/cdoe.tmu.ac.in.old/study-material/28-08-2024/COMMON/SEMESTER_2/MAIN_SOFT_SKILLS.pdf
7. https://byjus.com/maths/profit-and-loss-questions/
8. https://www.indiabix.com/

<table>
<tr><th colspan="3">Course Outcomes</th></tr>
<tr><th rowspan="2">CO No.</th><th>CO-Statements</th><th rowspan="2">Cognitive Levels (K-Level)</th></tr>
<tr><th>On successful completion of this course, the students will be able to</th></tr>
<tr><td>CO1</td><td>Analyse problems directed at testing their cognitive abilities</td><td>K1</td></tr>
<tr><td>CO2</td><td>Present the best of themselves as job seekers and communicate effectively in all contexts</td><td>K2</td></tr>
<tr><td>CO3</td><td>Assess themselves, set goals, and manage conflicts that are expected of a good leader</td><td>K3</td></tr>
<tr><td>CO4</td><td>Enhance numerical ability required for the employees for various transactions</td><td>K4</td></tr>
<tr><td>CO5</td><td>Develop aptitude skills required by the employers</td><td>K5</td></tr>
</table>

| Relationship Matrix | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Semester** | **Course Code** | | **Title of the Course** | | | | | | **Hours** | **Credits** | |
| 3 | 25USS34SE01 | | **Skill Enhancement Course - 1:** Soft Skills | | | | | | 2 | 1 | |

| Course Outcomes | Programme Outcomes (POs) | | | | | Programme Specific Outcomes (PSOs) | | | | | Mean Score of COs |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | PO1 | PO2 | PO3 | PO4 | PO5 | PSO1 | PSO2 | PSO3 | PSO4 | PSO5 | |
| CO1 | 3 | 3 | 3 | 2 | 2 | 2 | 2 | 3 | 2 | 3 | 2.5 |
| CO2 | 2 | 3 | 3 | 2 | 3 | 3 | 2 | 3 | 2 | 2 | 2.5 |
| CO3 | 2 | 2 | 3 | 3 | 2 | 3 | 3 | 3 | 2 | 2 | 2.5 |
| CO4 | 2 | 2 | 3 | 3 | 2 | 3 | 3 | 3 | 2 | 2 | 2.5 |
| CO5 | 2 | 2 | 3 | 3 | 2 | 3 | 3 | 3 | 2 | 2 | 2.5 |
| | | | | | | | | | | **Mean Overall Score** | **2.5 (High)** |

| Semester | Course Code | Title of the Course | Hours/Week | Credits |
|---|---|---|---|---|
| *4* | *25UTA41GL04C* | *General Tamil – 4:* வணிகத்தமிழ் *(Business Tamil)* | *4* | *3* |

| கற்றலின் நோக்கங்கள் *(Course Objectives)* |
|---|
| இலக்கியங்களில் காணலாகும் வணிகச் செய்திகளை அறிதல் |
| பண்டைய தமிழர்களின் வணிக மேலாண்மையைத் தெரிந்துகொள்ளல் |
| பழந்தமிழரின் பண்பாட்டுச் செழுமையை உணர்தல் |
| நிகழ்கால வணிக நிகழ்வுகளைத் திறனாய்வுநோக்கில் ஆராய்தல் |
| வணிகக் கடிதங்கள், கட்டுரைகள் ஆகியன எழுதும் திறன் பெறுதல் |

**அலகு-1 : இலக்கியமும் வணிகமும்** **(12 மணி நேரம்)**

   **பட்டினப்பாலை:** சேவடிச் செறிகுரங்கின் (146 - 158)- செல் கதிர் நுழையாச்செழுநகர் (183 - 193) - வான் முகந்தநீர் மலை (126 - 141) - மாஅ காவிரி மணம் கூட்டும் (116 - 125) -நெடுநுகத்துப் பகல் போல (206 - 218)

   **பண்டமாற்று:** நள்ளிருள் விடியல் புள்ளெழப் -(பெரும்பாணாற்றுப்படை 155-163), நெய் விலைக் காட்டிப் பசும்பொன் 164 - 166)- கானுறை வாழ்க்கைக் கதநாய் (புறநானூறு 33: 1 - 8) -முள் எயிற்றுப் பாண்மகள் (ஐங்குறுநூறு 47-49) - கதழ்கோல் உமணர்- (அகநானூறு140:5-8)

   **உரைநடைக்கட்டுரை:** சங்ககால மக்களின் உற்பத்தியும், வணிகமும்

   **பயன்முறைக் கற்றல்:** வணிக மடல்கள் வரைதல் (பதவிக்கு விண்ணப்பித்தல், புகார்க் கடிதம், வங்கி மடல்கள், கணக்கு தொடங்க விண்ணப்பித்தல், ஆணையுருக்கள்)

**அலகு-2 : சங்க கால மக்களின் வாழ்வியல்** **(12 மணி நேரம்)**

   அவரோ வாரார், முல்லையும் பூத்தன (குறுந்தொகை - 221) - முள்ளெயிற்றுப்பாண்மகள் (ஐங்குறுநூறு- புலவிப்பத்து (47)- கான் உறைவாழ்க்கை (புறநானூறு 33-1-7) சிறுகுழை துயல்வரும் காதில், பணைத்தோள் (பெரும்பாணாற்றுப்படை, (161-168) - தேனெய்யொடு கிழங்கு மாறியோர் (பொருநராற்றுப்படை, (214 - 221)

**போக்குவரத்துச் சாதனங்கள்:** கொடுநுகம் நுழைந்த கணைக்கால் அத்தரி, (அகநானூறு 120:10-11,350:6-7) - கழிச்சேறு ஆடிய கணைக்கால் அத்தரி (நற்றிணை 278: 7-9) - விளரி பரந்த கன்னெடு மருங்கின் (அகநானூறு 89:9-14)- அணங்குடை முந்நீர் பரந்த செருவின் (அகநானூறு 207:1-6)-சுரிகை நுழைந்த சுற்றுவீங்கு செறிவுடை (பெரும்பாணாற்றுப்படை 73 - 82)

**உரைநடைக்கட்டுரை:** திருக்குறளில் வணிக மேலாண்மை

**பயன்முறைக் கற்றல்:** வணிகப் பதிவேடுகள் பராமரிப்பு - வணிகவியல் கலைச்சொல்லாக்கம்

**அலகு-3 : தமிழர் வணிக மேலாண்மை** **(12 மணி நேரம்)**

   சிலப்பதிகாரம்: மதுரைக்காண்டம் - ஊர்காண் காதை (முழுவதும்) -திருக்குறள் (2 அதிகாரங்கள்) வினைத்திட்பம், பொருள் செயல்வகை.

   **உரைநடைக்கட்டுரை:** பண்டைய தமிழர்களின் பிறநாட்டு வணிகத் தொடர்பும், துறைமுகங்களும்

   **பயன்முறைக் கற்றல்:** வணிகக்கட்டுரை எழுதுதல் -வணிகக் கட்டுரைகளை மொழிபெயர்த்தல்

**அலகு-4 : தமிழர் துறைமுகங்கள்** **(12 மணி நேரம்)**

   ஓங்குநிலை யொட்டகம் துயில் (சிறுபாணாற்றுப்படை 154 - 155)- : புரவியொடு வடவளம் தரும் (பெரும்பாணாற்றுப்படை 320-323), வானம் ஊன்றிய மதலைபோல ,(346-3350)- உலகுகிளர்ந்தன்ன உருகெழுவங்கம் (அகநானூறு 255:1-6) – யவனர் நன்கலம் தந்ததண் கமழ்தேறல் , (புறநானூறு 255:1-6) , மீப்பாய் களையாது மிசைப்பரந்தோண்டாது (30)

**புதினம் - உப்பு வயல், ஸ்ரீதர கணேசன்**

**உரைநடைக்கட்டுரை:** காப்பியங்களில் வணிக மேலாண்மை

**பயன்முறைக் கற்றல்:** வணிக நிறுவன அறிக்கைகள் தயாரித்தல், வலைப்பூ உருவாக்கல்

**அலகு-5 : பழங்காலத் துறைமுகப் பட்டினங்கள்** **(12 மணி நேரம்)**

   நீரின் வந்த நிமிர் பரிப்புரவி (பட்டினப்பாலை 185)- கொண்டலோடு குருஉத் திரை (அகநானூறு 10:8-13)- அகலங்காடி யசை நிழற் (நற்றிணை 258:7-10) – வான் இயைந்த இருமுந்நீர்ப் (மதுரைக்காஞ்சி 75-88), முழங்கு கடல் தந்த விளங்குகதிர் முத்தம் -(76-73)

**உரைநடைக்கட்டுரை:** பன்முகநோக்கில் உலகமயமாக்கல்

**பயன்முறைக் கற்றல்:** வணிக நிகழ்வைத் திறனாய்வு செய்தல்

| கற்பித்தல் முறை *(Teaching methodology)* | விரிவுரை *(Lecture)*, காணொளிக் காட்சி *(Videos)*, விளக்கக் காட்சி *(PPT presentation)* |
|---|---|
| மதிப்பீட்டு முறைகள் *(Assessment methods)* | இயங்கலைத்தேர்வு *(Online Test)*, ஒப்படைவு *(Assignment)*, வினாடி வினா *(Quiz)*, கருத்துரை *(Seminar)* |

**பாடநூல்கள்:**

*1. வணிகத்தமிழ் (2025), தமிழாய்வுத்துறை, தூயவளனார் கல்லூரி*

*2.ஸ்ரீதர கணேசன், (2016), உப்பு வயல், நியூ செஞ்சுரி புக்ஹவுஸ்*

**பார்வை நூல்கள்:**

*1.கிருஷ்ணன்.எஸ் (மொ.பெ), (2015), பழந்தமிழர் வணிகர்கள், கிழக்குப்பதிப்பகம்.*

*2.கணியன் பாலன்,( 2016), பழந்தமிழர் சமுதாயமும் வரலாறும், எதிர் வெளியீடு*

*3.நரசய்யா.(2005), கடல் வழி வணிக வரலாறு, பழனியப்பா பிரதர்ஸ்*

*4. வேங்கடசாமி. மயிலை சீனி., (2011), பழங்காலத் தமிழர் வாணிகம், நியூ செஞ்சுரி புக் ஹவுஸ்*

*Websites and eLearning Sources*

- *https://www.sjctni.edu/Department/*
- *https://www.successcds.net/learn-english/writing-skills/business-letter-format.html*
- *https://ta.wikipedia.org/*
- *https://www.hindutamil.in/news/business/*
- *https://ta.wikisource.org*

## Course Outcomes

| CO No. | CO–Statements இப்பாடத்தின் நிறைவில் மாணவர்கள் | Cognitive Levels *(K –Levels)* |
|---|---|---|
| *CO–1* | பண்டைத் தமிழர்களிடம் மேலோங்கியிருந்த வணிகவியல் சிந்தனைகளை அறிந்து கொள்வர் | *K1* |
| *CO–2* | வணிகத்தின் அவசியத்தையும், இன்றியமையாமையையும் உணர்வர் | *K2* |
| *CO–3* | வணிகமடல்கள், பொது அமைப்பு மற்றும் படிவங்கள், பதிவேடுகளை உருவாக்குதல், பராமரித்தல் ஆகியவற்றைக் கற்றுக்கொள்வர் | *K3* |
| *CO–4* | தமிழருக்கும் பிற நாட்டாருக்குமான வணிகப் பயன்பாட்டினை அறிவர் | *K4* |
| *CO–5* | நிகழ்கால வணிக நிகழ்வுகளைத் திறனாய்வு செய்யும் திறன் பெறுவர் | *K5* |

| Relationship Matrix | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| **Semester** | **Course Code** | | **Title of the Course** | | | | | | **Hours** | **Credits** |
| *4* | *25UTA41GL04C* | | *General Tamil – 4: வணிகத்தமிழ் (Business Tamil)* | | | | | | *4* | *3* |
| **Course Outcomes↓** | **Programme Outcomes (PO)** | | | | | **Programme Specific Outcomes (PSO)** | | | | **Mean Scores of COs** |
| | *PO1* | *PO2* | *PO3* | *PO4* | *PO5* | *PSO1* | *PSO2* | *PSO3* | *PSO4* | *PSO5* |
| *CO-1* | *2* | *3* | *2* | *2* | *1* | *3* | *3* | *2* | *3* | *3* | *2.4* |
| *CO-2* | *2* | *2* | *3* | *3* | *2* | *2* | *3* | *3* | *2* | *2* | *2.4* |
| *CO-3* | *2* | *3* | *1* | *3* | *1* | *3* | *3* | *3* | *1* | *2* | *2.2* |
| *CO-4* | *3* | *2* | *2* | *2* | *1* | *3* | *2* | *3* | *2* | *3* | *2.3* |
| *CO-5* | *2* | *2* | *2* | *2* | *2* | *2* | *3* | *2* | *2* | *2* | *2.1* |
| | | | | | | | | | **Mean Overall Score** | | *2.28 (High)* |

| Semester | Course Code | Title of the Course | Hours/Week | Credits |
|----------|-------------|--------------------|-----------|---------|
| 4 | 25UFR41GL04 | Language French – 4 | 4 | 3 |

| Course Objectives |
|---|
| Express preferences and opinions with precision using quantity expressions, and pronouns to convey satisfaction or dissatisfaction. |
| Describe Health Conditions and provide medical advice using appropriate grammatical structures to engage in meaningful discussions |
| Communicate Effectively in Social and Professional Settings by expressing desires and requests and using polite expressions |
| Exchange Travel Information and construct well-structured narratives to recount journeys |
| Enhance communication through structured language with contextually appropriate statements across various topics |

**UNIT – I** (12 Hours)
1. Titre - En cuisine
2. Lexique – les aliments, la restauration, les goûts et les sensations
3. Grammaire – les quantités et le pronom 'en', la restriction 'ne…que', l'obligation
4. Production orale- communiquer au restaurant
5. Production écrite - exprimer sa satisfaction et son insatisfaction

**UNIT – II** (12 Hours)
6. Titre - A votre sante
7. Lexique – les corps et la sante, la médecine et les urgences
8. Grammaire – les pronoms COD et COI, le superlatif, les pronoms interrogatifs
9. Production orale- parler des problèmes de santé
10. Production écrite - Donner un conseil pour une condition médicale

**UNIT – III** (12 Hours)
11. Titre - Dans les médias
12. Lexique – les médias audios et les réseaux sociaux
13. Grammaire – la cause et la conséquence, le subjonctif, la place des pronoms
14. Production orale- exprimer son intérêt et sa préférence
15. Production écrite - faire une critique positive et négative

**UNIT – IV** (12 Hours)
16. Titre - Consommer responsable
17. Lexique – la consommation, les catégories de produits, le travail manuel
18. Grammaire – le conditionnel présent – formation et emploi, le gérondif
19. Production orale- demander et proposer un service
20. Production écrite - exprimer un souhait ou un désir

**UNIT – V** (12 Hours)
1. Titre - Envies d'ailleurs
2. Lexique – le voyage, l'hébergement, le séjour, le tourisme
3. Grammaire – le passé composé et l'imparfait dans le récit, les pronoms démonstratifs
4. Production orale- demander des renseignements sur un voyage
5. Production écrite - parler d'une visite touristique
6. Indian knowledge system - Writing travel narratives based on ancient Indian pilgrimage sites and comparing with French monuments. Using French quantity expressions and pronouns to describe Ayurvedic food portions and dietary balance and offering Ayurvedic-based medical advice. (5%)

| Teaching Methodology | L'approche communicative (Communicative Language Teaching -CLT), Genre-Based Approach, Experimental learning, Flipped Classroom Approach |
|---|---|
| Assessment Methods | *Role-Play:* Restaurant Experience: waiter and customer ordering food and expressing opinions on the meal. (Rubric – graded on usage of expressions related to food and grammatical accuracy) <br> *Written assessment:* Write a short critique of a social media platform, movie, or advertisement. (Rubric – assessed on ability to express opinions and logical argumentation) <br> *Travel Blog or Postcard Writing:* Write a blog post or postcard describing a recent travel experience, using descriptive language (Rubric – assessed on structured narrative writing in a travel context and usage of past tenses) <br> *Group Debate:* Media & Society: Debate the impact of social media on education. (Rubric – graded on critical thinking, Argument clarity and participation |

**Books for Study:**
1. Fafa, C., Gajdosova, F., Horquin, A., Pasquet, A., Perrard, M., Petitmengin, V., Sperandio, C., Dodin, M., &Veldeman-Abry, J. (2022). *Édito A2: Méthode de français* (2nd ed.). Didier FLE, Hatier. (p.83 – p.152)

**Books for Reference:**
1. Dauda, P., Giachino, L., & Baracco, C. (2016). *Génération A2*. Didier.
2. Girardet, J., &Pecheur, J. (2017). *Écho A2* (2nd ed.). CLE International

**Websites and eLearning Sources:**
1. https://cuisine-facile.com/
2. https://www.france.fr/en/
3. https://www.sncf-connect.com/
4. https://www.routard.com/
5. https://sante.lefigaro.fr/

| Course Outcomes | | |
|---|---|---|
| **CO No.** | **CO–Statements** <br> On successful completion of this course, students will be able to | **Cognitive Levels (K –Levels)** |
| **CO1** | Apply vocabulary related to food by using quantity expressions and pronoun to communicate satisfaction or dissatisfaction in oral and written contexts. | **K1** |
| **CO2** | Identify and describe health conditions, construct superlative forms, and formulate medical advice using appropriate grammatical structures. | **K2** |
| **CO3** | Express opinions, preferences, and critiques about various media platforms, apply cause-and-consequence structures | **K3** |
| **CO4** | Utilize vocabulary related to consumption, express desires and requests effectively in professional and social interactions. | **K4** |
| **CO5** | Request and provide travel-related information and describe tourist experiences using demonstrative pronouns and structured narratives. | **K5** |

| Relationship Matrix | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| **Semester** | **Course Code** | | **Title of the Course** | | | | **Hours** | | **Credits** | |
| **4** | **25UFR41GL04** | | Language French – 4 | | | | **4** | | **3** | |
| **Course Outcomes** | **Programme Outcomes (POs)** | | | | | **Programme Specific Outcomes (PSOs)** | | | | **Mean Score of Cos** |
| | **PO1** | **PO2** | **PO3** | **PO4** | **PO5** | **PSO1** | **PSO2** | **PSO3** | **PSO4** | **PSO5** | |
| **CO1** | 2 | 1 | 2 | 2 | 1 | 3 | 2 | 1 | 2 | 2 | 1.8 |
| **CO2** | 2 | 2 | 2 | 3 | 1 | 2 | 2 | 2 | 2 | 2 | 2.0 |
| **CO3** | 2 | 3 | 2 | 3 | 3 | 2 | 2 | 3 | 1 | 1 | 2.2 |
| **CO4** | 3 | 3 | 3 | 2 | 3 | 3 | 1 | 2 | 2 | 2 | 2.4 |
| **CO5** | 3 | 2 | 2 | 3 | 2 | 2 | 2 | 1 | 1 | 2 | 2.0 |
| **Mean Overall Score** | | | | | | | | | | | **2.08 (High)** |

| Semester | Course Code | Title of the Course | Hours/Week | Credits |
|----------|-------------|---------------------|------------|---------|
| 4 | 25UHI41GL04 | Language Hindi - 4 | 4 | 3 |

| Course Objectives |
|-------------------|
| To strengthen the language competence among the students |
| To equip students with cinematic perspective by comparative studies of Hindi literature |
| To enable the students to develop their effective communicative skills in Hindi |
| To strengthen the language competence among the students |
| To incept research-oriented aspirations among students |

**UNIT I** (12 Hours)
1. Prathyay
2. Char Bhai
3. Adhunik Kaal - Introduction
4. Adhunik Kal – Namakarn

**UNIT II** (12 Hours)
5. Chitra Varnan(Advanced)
6. Paryayvachy Shabdh
7. Bathcheeth - Hotel mein
8. Adhunik Kal - Samajik Paristhithiyam

**UNIT III** (12 Hours)
9. Upasarg
10. Thulsi ke Dhoe
11. Apathit Gadyansh
12. Adhunik Kal – Sahithyakar

**UNIT IV** (12 Hours)
13. Review- Book/Film
14. Paryavaran Pradookshan
15. Adhunik Kal -   Main Divisions
16. Anuvad

**UNIT V** (12 Hours)
17. Kaal
18. Patra-Patrikao mein Prakashit Gadyansho ka Patan (Advanced)
19. Sapnom Kee Home Delivery (Novel)
20. Adhunik Kal - Visheshathayem

| Teaching Methodology | Debate Participation, Videos, PPT, Quiz, Project Work |
|----------------------|-------------------------------------------------------|
| Assessment Methods | Quiz, Snap Test, Group Discussion |

**Books for Study:**
1. Dr. Sadananth Bosalae. (2022). *kavya sarang*. Rajkamal Prakashan.
2. Kamathaprasad Gupth, M. (2021). *Hindi Vyakaran*. Anand Prakashan.
3. Dr. Sanjeev Kumar Jain. (2022). *Anuwad: Siddhant Evam Vyavhar.* Kailash Pustak Sadan.

**Books for Reference:**
1. Rajeswar Prasad Chaturvedi. (2021). *Hindi vyakarana*. Upakar Prakashan.
2. Ramdev. (2021). *Vyakaran Pradeep*. Hindi Bhavan.
3. Krishnakumar Gosamy. (2023). *Anuvad vigyan ki Bhumika*. Rajkamal Prakashan.
4. Acharya Ramchandra Shukla. (2021). *Hindi Sahitya Ka Itihas*, Prabhat Prakashan.
5. Mamta Kaliya. (2022). *Sapno Ki Home Delivery.* Lokbharti Prakashan.

**Websites and eLearning Sources:**
1. https://youtu.be/xmr-DaQ3LhA
2. https://mycoaching.in/adhunik-kaal
3. https://m.sahityakunj.net/entries/view/bhartiya-sahitya-mein-anuvad-kee-bhoomika
4. https://mycoaching.in/upsarg-in-hindi
5. https://kalingaliteraryfestival.com/speakers/mamta-kalia/

| Course Outcomes | | |
|---|---|---|
| **CO No.** | **CO–Statements** On successful completion of the course, the student will acquire the listed skills. | **Cognitive Levels (K –Levels)** |
| **CO1** | List out the social conditions prevailed in Modern Period which are depicted in Hindi Literature. | **K1** |
| **CO2** | Discuss the dialects of Hindi language. | **K2** |
| **CO3** | Illustrate the works of some eminent Hindi Writers related to society. | **K3** |
| **CO4** | Evaluate the film & Literary works in Hindi. | **K4** |
| **CO5** | Analyze the human values expressed in life and literature of Hindi Novelist "Mamatha Kaliya". | **K5** |

| Relationship Matrix | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Semester** | **Course Code** | | **Title of the Course** | | | | **Hours / week** | | **Credits** | | |
| **4** | **25UHI41GL04** | | Language Hindi – 4 | | | | **4** | | **3** | | |
| **Course Outcomes (COs)** | **Programme Outcomes (POs)** | | | | | **Programme Specific Outcomes (PSOs)** | | | | | **Mean Score of Cos** |
| | **PO1** | **PO2** | **PO3** | **PO4** | **PO5** | **PSO1** | **PSO2** | **PSO3** | **PSO4** | **PSO5** | |
| **CO1** | 2 | 3 | 2 | 3 | 3 | 2 | 3 | 2 | 3 | 1 | 2.4 |
| **CO2** | 3 | 2 | 3 | 3 | 2 | 3 | 2 | 3 | 1 | 2 | 2.4 |
| **CO3** | 3 | 2 | 2 | 3 | 2 | 2 | 1 | 3 | 2 | 3 | 2.3 |
| **CO4** | 3 | 2 | 3 | 1 | 3 | 3 | 2 | 3 | 3 | 2 | 2.5 |
| **CO5** | 3 | 2 | 2 | 3 | 3 | 2 | 3 | 2 | 3 | 3 | 2.6 |
| | | | | | | | | **Mean Overall Score** | | | **2.44 (High)** |

| Semester | Course Code | Title of the Course | Hours/Week | Credits |
|----------|-------------|---------------------|------------|---------|
| 4 | 25USA41GL04 | Language Sanskrit - 4 | 4 | 3 |

| Course Objectives |
|-------------------|
| To give an exposure to Sanskrit drama in general |
| To showcase the structure of pre-kalidasan plays in Sanskrit |
| To coach students in Sanskrit morphology |
| To acquaint students with the structures of Sanskrit syntax |
| To impart communicative skills in Sanskrit by training in the functional aspects of the language |

**UNIT I** (12 Hours)

Samskrita Vyavahara sahasri vakiya Prayogaha

**UNIT II** (12 Hours)

Lot Lakaarah, Prayaogh Kartari Vaakyaani

**UNIT III** (12 Hours)

Naatakasya Itihaasah Vivaranam, Thuva and Tum Suffixs

**UNIT IV** (12 Hours)

Karnabhaaram, Naatakasya Visistyam

**UNIT V** (12 Hours)

Samskrita Racanani Vubhavoga

| Teaching Methodology | Videos, PPT, Blackboard, Demonstration, Exercises |
|----------------------|---------------------------------------------------|
| Assessment Methods | Seminar, Quiz, Group Discussion. |

**Books for Study:**
1. Karnabhavam & Literature Language
2. Dhaatu Manjari
3. Samskrita Vyavahara Sahasri (A Collection of One Thousand Sentances),Samskrita Bharati, Delhi,2021

**Books for Reference:**
1. R. S. Vadhyar & Sons, Book – sellers and publishers, Kalpathu, Palghat – 678003, Kerala, south India, History of Sanskrit Literature 2021
2. Kulapathy, K. M Saral Sanskrit Balabodh, Bharathita vidya bhavan, Munshimarg Mumbai – 400 007 2020
3. Samskrita Bharathi, Aksharam 8 th cross, 2nd phase Giri nagar Bangalore Vadatu sanskritam – Samaskara Binduhu 2021

**Websites and eLearning Sources:**
1. https://sanskritdocuments.org/doc_z_misc_major_works/daily.pdf
2. https://www.learnsanskrit.org/guide/verbs-1/karmani-and-bhave-prayoga/
3. https://ia902903.us.archive.org/7/items/in.ernet.dli.2015.102820/2015.102820.The-Sanskrit-Drama-In-Its-Origin-Development-Theory-And-Practice.pdf
4. https://archive.org/details/oafI_karna-bharam-karnas-burden-of-bhasa-with-dr.-sudhakar-malaviya-gokuldas-sanskrit
5. https://sanskritwisdom.com/composition/essays/sanskrit-language/

| Course Outcomes | | |
|---|---|---|
| **CO No.** | **CO–Statements** <br> On successful completion of this course, students will be able to | **Cognitive Levels (K –Levels)** |
| **CO1** | Understand human behaviors by studying dramas | **K1** |
| **CO2** | Remember and identifying Mahabharata characters and events | **K2** |
| **CO3** | Apply the morals learnt in day-to-day life | **K3** |
| **CO4** | Appreciate ancient Sanskrit dramas | **K4** |
| **CO5** | Create new conversational sentences and to Improve self-character (Personality Development) | **K5** |

| Relationship Matrix | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Semester** | **Course Code** | | **Title of the Course** | | | | | | | **Hours** | **Credits** |
| 4 | **25USA41GL04** | | Language Sanskrit - 4 | | | | | | | 4 | 3 |
| **Course Outcomes** | **Programme Outcomes (PO)** | | | | | **Programme Specific Outcomes (PSO)** | | | | | **Mean Scores of COs** |
| | **PO1** | **PO2** | **PO3** | **PO4** | **PO5** | **PSO1** | **PSO2** | **PSO3** | **PSO4** | **PSO5** | |
| **CO1** | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 2 | 2.4 |
| **CO2** | 2 | 2 | 3 | 3 | 2 | 3 | 2 | 3 | 3 | 2 | 2.5 |
| **CO3** | 3 | 3 | 2 | 3 | 2 | 1 | 1 | 3 | 3 | 3 | 2.4 |
| **CO4** | 2 | 2 | 3 | 2 | 3 | 3 | 3 | 3 | 2 | 3 | 2.6 |
| **CO5** | 2 | 3 | 3 | 3 | 2 | 1 | 3 | 3 | 3 | 2 | 2.5 |
| **Mean Overall Score** | | | | | | | | | | | **2.48 (High)** |

| Semester | Course Code | Title of the Course | Hours/Week | Credits |
|---|---|---|---|---|
| **4** | **25UEN42GE04C** | **General English – 4:** English for Management Studies – 2 | **5** | **3** |

| Course Objectives |
|---|
| To help students enhance communication skills for business economics analysis. |
| To facilitate effective cross-cultural and global business communication among students. |
| To improve students' persuasive communication and decision-making skills in business contexts. |
| To introduce business communication to students for technological advancements. |
| To equip students with the skills to write formal documents professionally. |

**UNIT I: Business Economics** (15 Hours)

**Themes:**
1. Microeconomics vs. Macroeconomics in Business
2. Demand and Supply Analysis
3. Market Structures and Competition
4. Cost-Production and Profit Maximization
5. Monopolies and Oligopolies: Implications for Business

**Skill-Focus:** *Listening attentively and providing appropriate feedback, Telephonic greeting, Persuading colleagues/clients, Communicating findings or progress to stakeholders*

**UNIT II: Globalization and Its Impact on Business** (15 Hours)

**Themes:**
6. Globalization: Trends and Emerging Markets
7. The Role of Multinational Corporations in Globalization
8. Globalization and Market Expansion Strategies
9. Global Labor Markets: Outsourcing and Offshoring
10. Globalization and the Rise of E-Commerce

**Skill-Focus:** *Listening for intent, Making predictions, Communicating professionally and empathetically with customers, Reviewing and revising text to correct errors, Writing in active voice*

**UNIT III: Corporate Social Responsibility** (15 Hours)

**Themes:**
11. Corporate Social Responsibility (CSR) in the Age of Social Media
12. Philanthropy and Social Impact
13. CSR and Stakeholder Engagement
14. Global CSR Practices: Differences Across Cultures and Regions
15. The Role of CSR in Crisis Management and Reputation Recovery

**Skill-Focus:** *Recognizing supporting details, Selecting appropriate words for the context, Crafting social media posts, Handling difficult conversations with stakeholders*

**UNIT IV: Technology and Business** (15 Hours)

**Themes:**
16. The Impact of Artificial Intelligence on Business Operations
17. Digital Transformation and Its Role in Business Growth
18. Cybersecurity Challenges in the Digital Age
19. The Future of E-Commerce and Digital Business Models
20. Technology-Driven Innovation in Product Development

**Skill-Focus:** *Highlighting key information, Writing executive summaries of data insights, Offering brief recaps of key points, Using narratives to make complex ideas more relatable and memorable*

**UNIT V: Sustainability and Green Business** (15 Hours)

**Themes:**
21. The Role of Sustainable Practices in Business Strategy
22. Green Business Models: Integrating Sustainability into Profitability
23. Corporate Environmental Responsibility: Best Practices
24. Circular Economy: Redefining Waste and Resource Use in Business
25. The Future of Sustainable Innovation in Business Practices

**Skill-Focus:** *Instructional writing, Questioning to gather more information or gain deeper understanding, Tailoring language, Tone and style, Evaluating and comparing best practices from different companies, Describing and explaining green business practices*

| Teaching Methodology | Lectures, Case Studies, Discussions, Reading Tasks, Writing Exercises, Workshops, Role-Playing, Group Projects, Debates, Storytelling Sessions |
|---|---|
| Assessment Methods | Seminars, Reports, Exhibits |

**Book for Study:**
- Joy, J.L. (in progress). *English for management studies - 1*. St. Joseph's College.

**Books for Reference:**
1. Chaffey, D. (2019). *Digital business and e-commerce management* (7th ed.). Pearson.
2. Guffey, M. E., & Loewy, D. (2016). *Business communication: Process and product* (9th ed.). Cengage
3. Nunan, D. (2003). *Practical English language teaching: Listening* (1st ed.). McGraw-Hill.
4. Scott, S. (2010). *The art of customer service: A guide to achieving excellent customer service*. McGraw-Hill.
5. Vester, M. (2021). *Writing for business: Communication strategies for success* (4th ed.). Routledge.

**Websites and eLearning Sources:**
1. Environmental economics: Principles, practices, and FAQs
2. https://www.youtube.com/watch?v=0njo-_b6yHw
3. Market-based approaches to environmental policy
   https://www.youtube.com/watch?v=3dBgmgsS6RA
4. https://www.udemy.com/course/business-communication-for-technical-professionals
5. Green Business: The Path to Zero Carbon Capitalism | Nyleve Henry | TEDxCrenshaw
   https://www.youtube.com/watch?v=FM6DXMWuNQ8
6. A Disruptive New Model for Corporate Sustainability and ESG | Georgia Elliott-Smith
   https://www.youtube.com/watch?v=HyDteUfammQ

| | Course Outcomes | |
|---|---|---|
| **CO No.** | **CO-Statements**<br>On successful completion of this course, the students will be able to | **Cognitive Levels (K-Level)** |
| **CO1** | List techniques and strategies for effective communication in business settings. | **K1** |
| **CO2** | Describe the impact of cultural differences on communication and business practices in a global context. | **K2** |
| **CO3** | Utilize digital communication tools and platforms to deliver business insights and data in a professional manner. | **K3** |
| **CO4** | Analyze business sustainability practices and present findings in a clear, structured report format. | **K4** |
| **CO5** | Critically assess the quality of business writing in sustainability and innovation reports, considering clarity, structure, and impact. | **K5** |

| Relationship Matrix | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| **Semester** | **Course Code** | | **Title of the Course** | | | | | | **Hours** | **Credits** |
| **4** | **25UEN42GE04C** | | **General English – 4:** English for Management Studies – 2 | | | | | | **5** | **3** |
| **Course Outcomes** | **Programme Outcomes (POs)** | | | | | **Programme Specific Outcomes (PSOs)** | | | | **Mean Score of COs** |
| | **PO1** | **PO2** | **PO3** | **PO4** | **PO5** | **PSO1** | **PSO2** | **PSO3** | **PSO4** | **PSO5** | |
| **CO1** | 2 | 3 | 3 | 3 | 2 | 3 | 3 | 2 | 3 | 2 | **2.6** |
| **CO2** | 3 | 3 | 2 | 3 | 3 | 2 | 3 | 2 | 3 | 2 | **2.6** |
| **CO3** | 3 | 2 | 2 | 3 | 3 | 3 | 2 | 2 | 3 | 3 | **2.6** |
| **CO4** | 3 | 2 | 3 | 2 | 2 | 2 | 3 | 2 | 3 | 2 | **2.4** |
| **CO5** | 2 | 2 | 3 | 2 | 2 | 3 | 2 | 3 | 2 | 3 | **2.4** |
| | | | | | | | | **Mean Overall Score** | | | **2.52 (High)** |

| Semester | Course Code | Title of the Course | Hours | Credits |
|----------|-------------|---------------------|-------|---------|
| 4 | 25UCC43CC07 | **Core Course - 7:** Management Accounting (Internship Embedded Course) | 6 | 4 |

| Course Objectives |
|-------------------|
| To help students to explain basic concepts, importance & functions of Management Accounting |
| To obtain a basic understanding of managerial accounting concepts |
| To Develop an understanding of the role of activity-based costing and management in decision making |
| To understand the future requirement of the business |
| To analyze the periodical financial statements |

## UNIT-I: INTRODUCTION                                              (18 Hours)

Management Accounting - Introduction and scope – Objectives – Analysis of financial statements; Common size and comparative financial statements, Trend percentages

## UNIT – II: RATIO ANALYSIS                                         (18 Hours)

Meaning of ratio –steps in ratio analysis-classification of ratios –profitability ratios- turnover ratios-solvency ratios or financial ratios

## UNIT-III: FUNDS FLOW AND CASH FLOW                                (18 Hours)

Fund Flow Analysis: Introduction - Funds Flow Statement-Ascertainment of flow of funds- Technique of preparing funds flow statement- Schedule of Changes in Working Capital- Adjusted Profit and Loss account: Cash Flow Statements – Advantages – Limitations – Preparation of Cash Flow Statement.

## UNIT -IV: CAPITAL BUDGETING                                       (18 Hours)

Capital budgeting – meaning and concepts – capital budgeting process – appraisal – criteria – Pay back method - Discounted cash flow Techniques – ARR, IRR, - method –PV factor- NPV and Profitability index method.

## UNIT -V: MARGINAL COSTING                                         (18 Hours)

Marginal Costing- Concept –Cost Volume Profit analysis: fixed cost-variable cost – contribution - Break Even Analysis - Profit Volumes Ratio- Margin of safety

**Theory 20% Problems 80%**

| Teaching Methodology | PPT, black board, group discussion |
|----------------------|-----------------------------------|
| Assessment method | MCQ, Assignment, test and group discussion |

**Books for Study:**
1. Khan & Jain, Management Accounting, Tata McGraw Hill, 8th edition 2021

**Books for Reference:**
1. Reddy T. S &Hari prasad reddy "Management Accounting ", Margam Publications Chennai 2015
2. Mubarak Ali, Management Accounting,

**Websites and eLearning Sources:**
1. https://en.wikipedia.org/wiki/Management_accounting
2. https://www.snhu.edu/about-us/newsroom/business/management-accounting
3. https://www.sciencedirect.com/journal/management-accounting-research

| | Course Outcomes | |
|---|---|---|
| **CO. No.** | **CO- Statements** On successful completion of this course, the students will be able to | **Cognitive Level (K- level)** |
| **CO-1** | Describe the managerial accounting and its objectives in a way that demonstrates a clear understanding of ethical responsibilities. | **K1** |
| **CO-2** | Understand various costing schedules where an analysis of cost classification, behaviour, and type is completed. | **K2** |
| **CO-3** | Discover the application skills to estimation of working capital | **K3** |
| **CO-4** | Analyzing the financial statement using short-term, long-term, profitability ratios, factors determining working capital requirements, fund flow and cash flow statements and break even analysis. | **K4** |
| **CO-5** | Evaluate cash and fund flow of the company, managerial applications of marginal costing. computation of contribution, P/V ratio, break even sales and margin of safety in the process of decision-making. | **K5** |

| Relationship matrix | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Semester** | **Course Code** | **Title of the Course** | | | | | | | | **Hours** | **Credits** |
| **4** | **25UCC43CC07** | **Core Course - 7:** Management Accounting (Internship Embedded Course) | | | | | | | | **6** | **4** |
| **Course Outcomes↓** | **Programme Outcomes (PO)** | | | | | **Programme Specific Outcomes (PSO)** | | | | | **Mean Scores of COs** |
| | **PO1** | **PO2** | **PO3** | **PO4** | **PO5** | **PSO1** | **PSO2** | **PSO3** | **PSO4** | **PSO5** | |
| **CO-1** | 2 | 3 | 2 | 3 | 2 | 3 | 3 | 3 | 2 | 3 | 2.6 |
| **CO-2** | 2 | 3 | 2 | 3 | 2 | 3 | 3 | 2 | 2 | 3 | 2.5 |
| **CO-3** | 2 | 3 | 2 | 3 | 2 | 3 | 3 | 2 | 2 | 3 | 2.5 |
| **CO-4** | 2 | 3 | 2 | 3 | 2 | 2 | 3 | 2 | 2 | 3 | 2.4 |
| **CO-5** | 2 | 3 | 2 | 3 | 2 | 3 | 3 | 2 | 2 | 3 | 2.5 |
| | | | | | | | | | **Mean Overall Score** | | 2.5 (High) |

| Semester | Course Code | Title of the Course | Hours | Credits |
|----------|-------------|---------------------|-------|---------|
| 4 | 25UCC43CC08 | **Core Course - 8:** Big Data Analysis | 3 | 2 |

| Course Objectives |
|-------------------|
| To implement and work with various data structures in R. |
| To extract data from multiple sources and utilize it for comprehensive data analysis. |
| To visualize and summarize data effectively using R. |
| To perform statistical computations and apply data analysis techniques in R. |
| To generate insightful reports and dashboards using R-based visualization tools. |

## UNIT-I: BIG DATA OVERVIEW (9 Hours)

Big Data - Data Structures - Analyst Perspective on Data Repositories- State of the Practice in Analytics - BI Versus Data Science - Current Analytical Architecture- Drivers of Big Data- Emerging Big Data Ecosystem and a New Approach to Analytics- Key Roles for the New Big Data Ecosystem- Examples of Big Data Analytics - Data Analytics Life Cycle: Data Analytics Life Cycle Overview-Discovery-Data preparation-Model planning-Model building-Communicate Results-Operationalize-Case Study: Global Innovation Network and Analysis (GINA).

## UNIT-II: BASICS OF R (9 Hours)

Introduction- downloading and installing R-IDEs and text editors- handling packages in R Getting started with R: Loading and handling data in R-Challenges in Analytical Data Processing-Expression, Variables Functions- Missing Values treatment in R- Using the 'as" Operator in R- Vectors-Matrices-List. Case Study: Dealing with Missing Data in R

## UNIT -III: FUNCTIONS OF R (9 Hours)

Aggregating and group processing of variable- Simple analysis using R- Methods for reading Data- Using R with Databases and Business Intelligence systems. Mathematical and statistical functions -Character functions -Looping and conditional execution -User-written functions -Ways to aggregate and reshape Case Study: Data Analytics in R: A Case Study Based Approach

## UNIT- IV: DATA ANALYSIS (9 Hours)

Data Frames- R functions for understanding data in Data Frames-Load Data Frames-Invalid values and outliers -Descriptive Statistics- Analysis of Variance and Correlation- Basics of Linear Regression-Classification.

## UNIT-V: DATA VISUALIZATION (9 Hours)

Exploratory Analysis with base graphics tools in R (box plots, bar charts, line plots, heat map, etc.) Customize plot axes, labels, add legends, and add colors- Data Analysis Descriptive Statistics- Spotting problems with Data and Visualization.

| Teaching Methodology | PPT, Video |
|----------------------|------------|
| **Assessment Methods** | Practical Assignments, Case Studies & Real-World Applications, Peer Reviews & Group Activity |

**Books for Study:**
1. David Dietrich, Barry Heller, Beibei Yang (2015), *Data Science and Big Data Analytics-discovering, Analyzing, Visualizing and presenting Data*, I$^{st}$ Edition John willey & sons, Inc., Indiana. **(UNIT:1)**
2. Seema Acharya (2018). *Data Analytics using R*, 1stEdition, McGraw hill Education (India) Private Limited, New Delhi. **(UNIT II, III, IV, V)**
3. Robert I. Kabacoff, (2011). *R in Action-Data Analysis and Graphics with R,* I$^{st}$ Edition, Manning Publications Co, New york.

**Books for Reference:**
1. Frank Ohlhorst (2013). *Big Data Analytics-Turning Big Data in to Big Money*, I$^{st}$ Edition John Wiley & Sons, Inc., Hoboken, New Jersey.
2. 2.Jared Dean (2014). *Big data, Data Mining and Machine Learning*, 2$^{nd}$ Edition, John Wiley & Sons, Inc., Hoboken, New Jersey.

3. 3.Gareth James, Daniela Witten, Trevor Hastie, and Robert Tibshirani (2013), *Introduction to Statistical Learning with Applications in R*, 1stEdition, Springer, New York, NY.
4. 4.Christian Kleiber and AchimZeileis (2008). *Applied Econometrics with R*, 1st Edition, Springer-Verlag, New York.

**Websites and eLearning Sources:**
1. SWAYAM/NPTEL: https://swayam.gov.in
2. Courses on Big Data Analytics using R and Data Science offered by top Indian universities and institutes like IITs.
3. Coursera:
4. Big Data Specialization by the University of California, San Diego.
5. Data Analysis with R by Johns Hopkins University.
6. Machine Learning with Big Data by the University of Washington.
7. Udemy:
8. Big Data Analytics with R – Covers data wrangling, visualization, and machine learning techniques.
9. Data Science and Machine Learning Bootcamp with R – Hands-on learning on big data handling with R.
10. GeeksforGeeks:
11. Big Data and Analytics – Covers Hadoop, Spark, and R for big data processing.
12. R Programming for Data Science – Explains statistical analysis, visualization, and modeling.
13. YouTube Channels:
14. Edureka (Big Data Full Course)
15. Covers Hadoop, Spark, and real-world applications of big data.
16. Simplilearn (Big Data and Analytics)
17. Focuses on big data frameworks, data pipelines, and analytics using R and Python.
18. StatQuest with Josh Starmer (Data Analysis with R)
19. Simplified explanations of statistical concepts and machine learning with R.
20. Data Professor (R Programming for Data Science)
21. Practical examples of data analysis, visualization, and machine learning in R.

| CO. No | Course Outcome | Cognitive Level (K- level) |
|---|---|---|
| CO1 | To understand R programming and write simple R commands. | K1 |
| CO2 | To import, read data from datasets, and gain insights. | K2 |
| CO3 | To apply statistical measures and implement looping statements. | K3 |
| CO4 | To implement descriptive statistics for data analysis. | K4 |
| CO5 | To visualize complex, heterogeneous data in real-time scenarios. | K5 |

| Relationship Matrix | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Semester | Course Code | | Title of the Course | | | | | | | Hours | Credits |
| 4 | 25UCC43CC08 | | Core Course - 8: Big Data Analysis | | | | | | | 3 | 2 |
| Course Outcomes | Programme Outcomes (PO) | | | | | Programme Specific Outcomes (PSO) | | | | | Mean Scores of COs |
| | PO1 | PO2 | PO3 | PO4 | PO5 | PSO1 | PSO2 | PSO3 | PSO4 | PSO5 | |
| CO-1 | 3 | 3 | 2 | 2 | 1 | 3 | 2 | 3 | 1 | 1 | 2.1 |
| CO-2 | 3 | 1 | 3 | 1 | 1 | 3 | 2 | 3 | 1 | 2 | 2 |
| CO-3 | 3 | 3 | 3 | 2 | 1 | 3 | 1 | 3 | 1 | 3 | 2.3 |
| CO-4 | 3 | 1 | 3 | 3 | 2 | 3 | 2 | 3 | 1 | 2 | 2.3 |
| CO-5 | 3 | 3 | 3 | 1 | 2 | 3 | 2 | 3 | 1 | 2 | 2.3 |
| | | | | | | | | | Mean Overall Score | | 2.2 |
| | | | | | | | | | | | High |

| Semester | Course Code | Title of the Course | Hours | Credits |
|---|---|---|---|---|
| 4 | 25UCC43CP04 | **Core Practical - 4:** Data Analysis Using R | 2 | 2 |

| Course Objectives |
|---|
| To implement and work with various data structures in R. |
| To extract data from multiple sources and utilize it for comprehensive data analysis. |
| To visualize and summarize data effectively using R. |
| To perform statistical computations and apply data analysis techniques in R. |
| To generate insightful reports and dashboards using R-based visualization tools. |

**List of Programs:**

1. To write an R program to create and display different data types (numeric, character, logical, and factor) using the typeof() function.
2. To perform arithmetic operations (+, -, *, /, %%, %/%) and display the results.
3. To implement relational (==, !=, >, <, >=, <=) and logical (&&, ||, !) operators in R.
4. To convert one data type to another (numeric to character, character to factor, etc.) using as.numeric(), as.character(), and as.factor().
5. To generate sequences using seq(from, to, by) and rep(value, times) functions.
6. To create and manipulate vectors using c(), append(), and length().
7. To define and invoke a function to add two numbers in R using function ().
8. To write an R program to check whether a given number is even or odd using an if-else statement.
9. To write an R program to generate the first 10 Fibonacci numbers using a for loop.
10. To create a numeric vector and access elements using positive and negative indexing.
11. To perform element-wise operations (addition, subtraction, multiplication, division) on vectors.
12. To create and manipulate a list containing numeric, character, and logical values, and access elements using names and indexing.
13. To create a matrix using matrix() and perform addition, subtraction, and multiplication of matrices.
14. To extract specific rows and columns from a matrix using indexing and slicing.
15. To create a data frame manually and display its structure using str () and summary().
16. To filter specific rows from a data frame based on conditions using the subset () function.
17. To apply functions (mean(), sum(), min(), max()) across data frame columns using apply().
18. To create a histogram to visualize the distribution of a numeric variable using ggplot2.
19. To create a scatter plot to show the relationship between two variables and add a trend line using geom_point() and geom_smooth().

| CO. No | CO Statements | Cognitive Level (K- level) |
|---|---|---|
| CO1 | Implement and work with various data structures in R. | K1 |
| CO2 | Extract data from multiple sources and utilize it for comprehensive data analysis. | K2 |
| CO3 | Visualize and summarize data effectively using R. | K3 |
| CO4 | Perform statistical computations and apply data analysis techniques in R. | K4 |
| CO5 | Generate insightful reports and dashboards using R-based visualization tools. | K5 |

| Relationship Matrix | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Semester | Course Code | | Title of the Course | | | | | | | Hours | Credits |
| 4 | 25UCC43CP04 | | **Core Practical - 4:** Data Analysis Using R | | | | | | | 2 | 2 |
| Course Outcomes↓ | Programme Outcomes (PO) | | | | | Programme Specific Outcomes (PSO) | | | | | Mean Scores of COs |
| | PO1 | PO2 | PO3 | PO4 | PO5 | PSO1 | PSO2 | PSO3 | PSO4 | PSO5 | |
| CO-1 | 3 | 3 | 2 | 2 | 1 | 3 | 2 | 3 | 1 | 1 | 2.1 |
| CO-2 | 3 | 1 | 3 | 1 | 1 | 3 | 2 | 3 | 1 | 2 | 2 |
| CO-3 | 3 | 3 | 3 | 2 | 1 | 3 | 1 | 3 | 1 | 3 | 2.3 |
| CO-4 | 3 | 1 | 3 | 3 | 2 | 3 | 2 | 3 | 1 | 2 | 2.3 |
| CO-5 | 3 | 3 | 3 | 1 | 2 | 3 | 2 | 3 | 1 | 2 | 2.3 |
| Mean Overall Score | | | | | | | | | | | 2.2 |
| | | | | | | | | | | | # High |

| Semester | Course Code | Title of the Course | Hours/Week | Credits |
|----------|-------------|---------------------|------------|---------|
| 4 | 25UCC43AO02A | **Allied Optional - 2:** Elements of Statistics | 6 | 4 |

| Course Objectives |
|-------------------|
| To give basic knowledge about Statistics to the students who did not study Statistics at the higher secondary level. |
| To train the students in the working techniques of various branches of Statistics. |
| To motivate the students by using the SPSS software for statistical measures. |
| To train the students in mastering the techniques and tools of Statistics. |
| To motivate the students to apply the techniques in their major subject. |

**UNIT I**                                                                   **(18 Hours)**

Measures of central tendency: arithmetic mean, median, mode - computation of individual, discrete and continuous series - Measures of dispersion: standard deviation - coefficient of variation (simple problems & business applications only)

**UNIT II**                                                                  **(18 Hours)**

Measures of Skewness - computation of Karl Pearson's coefficient of skewness - Correlation analysis - types of correlation - Karl Pearson's coefficient of correlation & its calculation - rank correlation coefficient without tie in ranks (simple problems & business applications only)

**UNIT III**                                                                 **(18 Hours)**

Index numbers - Methods of constructing indices - simple aggregative method - Weighted aggregative indices - Laspeyre's, Paasche's, Bowley's& Fisher's ideal method - quantity & value indices - Time series analysis - components - method of least squares - fitting a straight-line trend only (simple problems & business applications only)

**UNIT IV**                                                                  **(18 Hours)**

Probability - concepts of probability - applications of addition theorem & multiplication theorem (no proofs, simple problems & business applications only)

**UNIT V**                                                                   **(18 Hours)**

SPSS - introduction - Basic statistical concepts - Research in behavioral sciences - Types of variables - Reliability and Validity - summarizing data - Basic concepts - Measures central tendency - Variation – Skewness

| Teaching Methodology | Chalk and Talk method, Problem solving |
|----------------------|----------------------------------------|
| Assessment Methods | Snap Test, MCQ |

**Books for Study:**
1. Gupta, S.P. (2021). *Statistical Methods*, (46th Ed.). Sultan Chand & Sons, New Delhi.
   - **Unit-I:** *Chapter 7 (Vol. I), Pages 7.1-7.10, 7.16-7.23, 7.29-7.37,*
     *Chapter 8 (Vol. I), Pages 8.15-8.21, 8.25-8.28.*
   - **Unit-II:** *Chapter 9 (Vol. I), Pages 9.1-9.8,*
     *Chapter 10 (Vol. I) Pages 10.1-10.5, 10.8-10.14, 10.25-10.30*
   - **Unit-III:** *Chapter 13 (Vol. I), Pages 13.1-13.2, 13.8-13.21, 13.22-13.25,*
     *Chapter 14 (Vol. I), Pages 14.1-14.2,14.4-14.5, 14.22-14.28.*
   - **Unit-IV:** *Chapter 1 (Vol. II), Pages 1.1-1.4, 1.8-1.13, 1.22-1.29(only simple problems)*
2. Gaur, A.S., & Gaur, S.S. (2009). *Statistical Methods for Practice and Research - A Guide to Data Analysis Using SPSS*, (2nd Ed.). Sage Publications Pvt. Ltd.
   - **Unit - V:** Chapter 1, Chapter 2: Sections 2.1-2.3, Chapter 3: Sections 3.1.1, 3.1.2, 3.1.4

**Books for Reference:**
1. Krishnan, V. & Pillai, S. (2001). *Statistics for Beginners.* Atlantic Books.
2. Huizingh, E. (2007). *Applied Statistics with SPSS*, SAGE Publications Pvt. Ltd.

## Course Outcomes

| CO No. | CO-Statements<br>On successful completion of this course, students will be able to | Cognitive Levels (K - Level) |
|---|---|---|
| **CO1** | Acquire knowledge of measures of central tendency, measures of skewness, time series, probability, basic statistical concepts and SPSS. | **K1** |
| **CO2** | Understand concept of averages, correlation, index numbers, addition theorem and multiplication in probability, averages in SPSS. | **K2** |
| **CO3** | Apply measure of dispersion, curve fitting, index number theory to find the solution of real life problems in terms of business. | **K3** |
| **CO4** | Compare measures of central tendency, accuracy of the given data using correlation analysis and analyse Laspeyre's, Paasche's, Bowley's and Fisher's ideal method and research in behavioural sciences by SPSS. | **K4** |
| **CO5** | Evaluate the various measures of central tendency and measures of skewness using SPSS package, different indices and problems based on addition and multiplication theorem. | **K5** |

## Relationship Matrix

| Semester | Course Code | Title of the Course | | Hours | Credits |
|---|---|---|---|---|---|
| **4** | **25UCC43AO02A** | **Allied Optional - 2:** Elements of Statistics | | **6** | **4** |

| Course Outcomes | Programme Outcomes (POs) | | | | | Programme Specific Outcomes (PSOs) | | | | | Mean Scores of COs |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | **PO1** | **PO2** | **PO3** | **PO4** | **PO5** | **PSO1** | **PSO2** | **PSO3** | **PSO4** | **PSO5** | |
| **CO1** | 2 | 1 | 2 | 2 | 1 | 2 | 3 | 3 | 3 | 2 | **2.1** |
| **CO2** | 2 | 1 | 1 | 2 | 2 | 3 | 2 | 3 | 2 | 3 | **2.1** |
| **CO3** | 2 | 3 | 1 | 2 | 1 | 3 | 3 | 3 | 2 | 3 | **2.3** |
| **CO4** | 2 | 3 | 1 | 2 | 1 | 3 | 3 | 3 | 2 | 3 | **2.3** |
| **CO5** | 1 | 2 | 1 | 2 | 2 | 3 | 2 | 3 | 3 | 3 | **2.2** |
| | | | | | | | | | **Mean Overall Score** | | **2.2 (High)** |

| Semester | Course Code | Title of the Course | Hours/Week | Credits |
|---|---|---|---|---|
| 4 | 25UCC43AO02B | **Allied Optional - 2:** Business Statistics | 6 | 4 |

| Course Objectives |
|---|
| To introduce fundamental statistical concepts, including measures of central tendency and dispersion. |
| To develop analytical skills for understanding correlation, skewness, and association between variables. |
| To equip students with knowledge of index numbers and their applications in business and economics. |
| To apply probability concepts in solving real-world and business-related problems. |
| To familiarize students with SPSS software for statistical analysis and data interpretation. |

**UNIT I** (18 Hours)

Measures of central tendency - arithmetic mean, median & mode - correction of incorrect values - Open end classes - median for unequal intervals - quartiles, deciles & percentiles - relation between AM, median & mode - Measures of dispersion - Range - Quartile deviation Mean deviation - standard deviation - relation between QD, MD & SD - coefficient of variation (simple problems & business applications only)

**UNIT II** (18 Hours)

Measures of Skewness - computation of Karl Pearson's & Bowley's co-efficient of skewness Correlation analysis - types of correlation - calculation - rank correlation without tie in ranks - Association of two attributes - types of association - consistency of data - Comparison of observed and expected frequencies - Yule's coefficient of association (simple problems & business applications only)

**UNIT III** (18 Hours)

Index numbers - Methods of constructing indices - simple aggregative method - Weighted aggregative indices - Laspeyre's, Paasche's, Bowley's & Fisher's ideal method - weighted aggregative indices - quantity & value indices - test of adequacy of indices - time reversal test - factor reversal test - family budget method - method of least squares - fitting a straight line trend only (simple problems & business applications only)

**UNIT IV** (18 Hours)

Probability - concepts of probability - applications of addition theorem & multiplication theorem (no proofs, simple problems & business applications only)

**UNIT V** (18 Hours)

SPSS - introduction - Basic statistical concepts - Research in behavioral sciences - Types of variables - Reliability and Validity - summarizing data - Basic concepts - Measures central tendency - Variation - Skewness

| Teaching Methodology | chalk and talk, PPT, Problem solving |
|---|---|
| Assessment Methods | Snap Test, MCQ, Writing assignments |

**Books for Study:**
1. Gupta, S. P. (2021). *Statistical methods* (46th Ed.). Sultan Chand & Sons.
   **Unit-I** *Chapter 7 (Vol. I), Pages 7.1 - 7.11, 7.16 - 7.39, Chapter 8 (Vol. I),*
   *Pages 8.1-8.21, 8.2 -8.31.*
   **Unit-II** *Chapter 9 (Vol. I), Pages 9.1-9.12, Chapter 10 (Vol. I), Pages10.1 -10.5, 10.8 -10.12*
   *10.25- 10.30, Chapter 12 (Vol. I), 12.1 -12.11.*
   **Unit-III** *Chapter 13 (Vol. I), Pages 13.1 - 13.29, 13.40 - 13.43, Chapter 14 (Vol. I), 14.22-14.29.*
   **Unit-IV** *Chapter 1 (Vol. II), Pages 1.1 - 1.19, 1.22-1.32*
2. Gaur, A. S., & Gaur, S. S. (2009). *Statistical methods for practice and research: A guide to data analysis using SPSS* (2nd ed.). SAGE Publications.
   **Unit - V** *Chapter 1, Chapter 2, (Sections 2.1-2.3), Chapter 3, (Sections 3.1.1 -3.1.4).*

**Books for Reference:**
1. Sharma, J. K. (2020). *Business statistics*. Vikas Publishing.
2. Gupta, S. P., & Gupta, M. P. (2021). *Business statistics*. Sultan Chand & Sons.
3. Gupta, S. C., & Kapoor, V. K. (2019). *Fundamentals of business statistics*. Sultan Chand & Sons.
4. Arora, P. N., & Arora, S. (2021). *Business statistics and analytics*. S. Chand Publishing.

| Course Outcomes | | |
|---|---|---|
| **CO No.** | **CO-Statements**<br>On successful completion of this course, the students will be able to | **Cognitive Levels (K-Level)** |
| **CO1** | Acquire knowledge of measures of central tendency, measures of skewness, time series, probability, basic statistical concepts, and SPSS. | **K1** |
| **CO2** | Understand the concepts of averages, correlation, index numbers, and probability (addition and multiplication theorems), as well as the use of averages in SPSS | **K2** |
| **CO3** | Apply measures of dispersion, curve fitting, and index number theory to solve real-life business problems. | **K3** |
| **CO4** | Compare different measures of central tendency, assess data accuracy using correlation analysis, and analyze Laspeyre's, Paasche's, Bowley's, and Fisher's ideal index number methods in behavioral research. | **K4** |
| **CO5** | Evaluate various measures of central tendency and skewness using SPSS, interpret different indices, and solve probability problems using the addition and multiplication theorems. | **K5** |

| Relationship Matrix | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Semester** | **Course Code** | **Title of the Course** | | | | | | | **Hours** | **Credits** | |
| 4 | **25UCC43AO02B** | **Allied Optional - 2:** Business Statistics | | | | | | | 6 | 4 | |
| **Course Outcomes** | **Programme Outcomes (POs)** | | | | | **Programme Specific Outcomes (PSOs)** | | | | | **Mean Score of COs** |
| | **PO1** | **PO2** | **PO3** | **PO4** | **PO5** | **PSO1** | **PSO2** | **PSO3** | **PSO4** | **PSO5** | |
| **CO1** | 3 | 2 | 3 | 1 | 1 | 3 | 2 | 3 | 2 | 3 | **2.2** |
| **CO2** | 1 | 2 | 3 | 2 | 3 | 2 | 3 | 2 | 3 | 2 | **2.3** |
| **CO3** | 2 | 3 | 2 | 1 | 2 | 3 | 3 | 2 | 2 | 3 | **2.3** |
| **CO4** | 1 | 2 | 2 | 2 | 3 | 1 | 3 | 2 | 2 | 3 | **2.1** |
| **CO5** | 1 | 2 | 2 | 3 | 1 | 2 | 3 | 2 | 2 | 3 | **2.1** |
| | | | | | | | | | **Mean Overall Score** | | **2.2 (High)** |

| Semester | Course Code | Title of the Course | Hours / Week | Credits |
|----------|-------------|---------------------|--------------|---------|
| 4 | 25UHE44VE04A | **Value Education - 4:** Social Ethics - 2 | 2 | 1 |

| Course Objectives |
|---|
| To understand the significance of natural resources and strive to coexist harmoniously with nature. |
| To implement strategies for disaster management within the community. |
| To evaluate the significance and distinctions between science and religion. |
| To recognize the importance of maintaining a healthy lifestyle. |
| To utilize counseling techniques to address and resolve individuals' issues. |

## UNIT I: Harmony with Nature                                            (6 Hours)

What is environment, why should we think of harmony, longing for human well-being, Principles to conserve environmental resources, causes of disharmony, the fruits of harmony with nature, Forest resources, Water resources, Mineral resources, Food resources, Fruits of disharmony, Economic values and growth, Environmental Ethics, Guidelines to live in harmony with nature, Towards life-centered system for better quality of life. Harmony with animal kingdom.

## UNIT II: Issues Dealing with Science and Religion                      (6 Hours)

What is Science, Science and Religion, Social Relevance of Science and Technology, Science and technology for social justice, Difference caused by Science and Technology, Need for indigenous technology, Science, Technology and Innovation Policy of India.

## UNIT III: Public Health                                                (6 Hours)

Health related issues, Health Care in India vs Developed Countries, Health and Heredity, Public Health - The Indian Scenario, Objectives of public health in India, Public Health System in India, Failure on the public health front, Role of the central government, Hospitals Services in India, Health and Abortion, Health and Drug Addiction, Drug abuse.

## UNIT IV: Disaster Management                                           (6 Hours)

Disaster Management, Types of disaster, plans of disaster management, Technology to manage natural disasters and catastrophes, Disaster Management, Rehabilitation and Reconstruction, Human-induced disaster, First Aid, The importance of First-aid, Disaster Declaration and Response.

## UNIT V: Counseling for Adolescents                                     (6 Hours)

High Risk Behaviours, Developmental Changes in Adolescents, Key Issues of the Adolescents, need for Counseling, Nature of Counseling, Counseling Goals, does helping help? The Good and the Bad news. Importance of Career Guidance Counseling.

| Teaching Methodology | Power point, Assignment and Group discussion |
|---|---|
| Assessment Methods | Online Test, Group Discussions, Seminar, Assignment |

**Books for Study:**
1. Department of Human Excellence. (2021). *Formation of Youth*, St Joseph's College (Autonomous), Tiruchirappalli.

**Books for Reference:**
1. Albert, D., & Steinberg, L. *Judgment and decision making in adolescence*: Journal of Research on
2. Adolescence, page no: 211-224 (2011).
3. Larry, R. C. (2000). *Disaster Management and Preparedness,* Lewis Publications.
4. Hurlock, E.B. (2001). *Developmental Psychology: A: Life-Span Approach*. (5th Ed.). Tata McGraw-Hill.
5. Sangha., & Kamaljit. (2015). *Ways to Live in Harmony with Nature: Living Sustainably and*
6. *Working with Passion.* Australia, Woods lane Pty Limited.

1. https://en.wikipedia.org/wiki/Disaster_management_in_India
2. https://ndma.gov.in/
3. https://talkitover.in/services/child-adolescent-counselling/
4. https://www.nipccd.nic.in/schemes/adolescent-guidance-centre-19#gsc.tab=0

| Course Outcomes | | |
|---|---|---|
| **CO No.** | **CO-Statements** On successful completion of this course, students will be able to | **Cognitive Levels (K - Level)** |
| **CO1** | Know the value of natural recourses and to live in a harmony with nature. | **K1** |
| **CO2** | Apply the plans of disaster management in the society. | **K2** |
| **CO3** | Analyse the importance and differences of science and religion. | **K3** |

| Relationship Matrix | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| **Semester** | **Course Code** | | **Title of the Course** | | | | | | **Hours** | **Credits** |
| **4** | **25UHE44VE04A** | | **Value Education - 4:** Social Ethics - 2 | | | | | | **2** | **1** |
| **Course Outcome** | **Programme Outcomes (POs)** | | | | | **Programme Specific Outcomes (PSOs)** | | | | | **Mean Scores of COs** |
| | **PO1** | **PO2** | **PO3** | **PO4** | **PO5** | **PSO1** | **PSO2** | **PSO3** | **PSO4** | **PSO5** | |
| **CO1** | 3 | 3 | 3 | 3 | 2 | 3 | 3 | 2 | 3 | 3 | **2.8** |
| **CO2** | 3 | 2 | 2 | 3 | 3 | 2 | 3 | 3 | 2 | 2 | **2.5** |
| **CO3** | 2 | 3 | 3 | 3 | 2 | 3 | 3 | 3 | 3 | 3 | **2.8** |
| | | | | | | | | | **Mean Overall Score** | | **2.7 (High)** |

| Semester | Course Code | Title of the Course | Hours/Week | Credits |
|---|---|---|---|---|
| 4 | 25UHE44VE04B | **Value Education - 4:** Religious Doctrine - 2 | 2 | 1 |

| Course Objectives |
|---|
| To explore the rich historical background of the Catholic Church |
| To explore and comprehend the Sacraments practiced by the Catholic Church |
| To incorporate Christian Prayer into daily routines |
| To reflect on personal growth through the lens of Sacraments and Christian Prayer |
| To promote unity by embracing universal values from various religions |

**UNIT I** : The Catholic Church **(6 Hours)**

**UNIT II** : Sacraments of Initiation **(6 Hours)**

**UNIT III** : Sacraments of Healing & at the Service of Community **(6 Hours)**

**UNIT IV** : The Christian Prayer **(6 Hours)**

**UNIT V** : Harmony of Religions **(6 Hours)**

| Teaching Methodology | Power point, assignment, and Group discussion |
|---|---|
| Assessment Methods | Seminars, Group Discussion, Online Tests, Assignments |

**Books for Study:**
1. Department of Human Excellence (2022). Fullness of Life, St Joseph's College (Autonomous), Tiruchirappalli.

**Books for Reference:**
1. (1994). *Compendium: Catechism of the Catholic Church.* Bengaluru: Theological Publications in India. Holy Bible (NRSV).

| Course Outcomes | | |
|---|---|---|
| **CO No.** | **CO-Statements** On successful completion of this course, students will be able to | **Cognitive Levels (K - Level)** |
| CO1 | Understand the history of the Catholic Church | K1 |
| CO2 | Examine and grasp the Sacraments of the Catholic Church | K2 |
| CO3 | Apply the Christian Prayer to their everyday life | K3 |

| Relationship Matrix | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Semester | Course Code | | Title of the Course | | | | | | Hours | Credits |
| 4 | 25UHE44VE04B | | Value Education - 4: Religious Doctrine - 2 | | | | | | 2 | 1 |
| **Course Outcome** | **Programme Outcomes (POs)** | | | | | **Programme Specific Outcomes (PSOs)** | | | | **Mean Scores of COs** |
| | PO1 | PO2 | PO3 | PO4 | PO5 | PSO1 | PSO2 | PSO3 | PSO4 | PSO5 | |
| CO1 | 3 | 3 | 3 | 3 | 2 | 3 | 2 | 2 | 3 | 3 | 2.7 |
| CO2 | 3 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 2 | 2 | 2.5 |
| CO3 | 2 | 2 | 3 | 3 | 2 | 2 | 3 | 3 | 3 | 3 | 2.6 |
| | | | | | | | | Mean Overall Score | | | 2.6 (High) |

| Semester | Course Code | Title of the Course | Hours/Week | Credits |
|:---:|:---:|:---:|:---:|:---:|
| **4** | **25UCC44SE02** | **Skill Enhancement Course - 2:** Entrepreneurship Development | **2** | **1** |

| Course Objectives |
|---|
| Understand the fundamentals of entrepreneurship. |
| Develop entrepreneurial motivation. |
| Enhance interpersonal and people skills. |
| Cultivate key entrepreneurial skills. |
| Develop specialized entrepreneur skills. |

**UNIT I: Introduction to Entrepreneur** (6 Hours)

Entrepreneurship: Meaning, Definition - Entrepreneur vs. Intrapreneur vs. Technopreneur - Entrepreneur Characteristics - Types of Entrepreneurs - Roles of an Entrepreneur.

**UNIT II: Entrepreneurial Motivations** (6 Hours)

Effective Communication - Goal Setting Strategies - Creativity & Productivity in Entrepreneurship - Traits of a True Entrepreneur.

**UNIT III: Interpersonal Skills** (6 Hours)

People Skills and Social Skills - Social Intelligence - Opportunities for Professional Development - Factors Favoring Entrepreneurship - Personal Characteristics of Entrepreneurs.

**UNIT IV: Entrepreneur Skills 1** (6 Hours)

Business Management Skills - Communication & Active Listening - Risk-taking Skills - Networking Skills - Creative & Critical Thinking - Problem-solving Skills.

**UNIT V: Entrepreneur Skills 2** (6 Hours)

Customer Service Skills - Financial Skills - Leadership Skills - Time Management & Organizational Skills - Technical Skills for Entrepreneurs.

| **Teaching Methodology** | • **Lectures:** PPT presentations, videos<br>• **Group Activities:** Practical exercises and discussions |
|---|---|
| **Assessment Method** | Seminar, Snap Test, MCQ |

**Books for Study:**
1. Suresh, J. (2023). *Entrepreneurial Development*. Margham Publications.
2. Gupta, C. B. & Khanka, S. S. (2022). *Entrepreneurship and Small Business Management* (9th Ed.). Sultan Chand & Sons.
3. Poornima, C. (2022). *Entrepreneurship Development-Small and Medium Enterprises* (2nd Ed.). Pearson Education.
4. Shankar, R. (2022). *Entrepreneurship Theory and Practice* (3rd Ed.). Vijay Nicole and Imprints Pvt. Ltd.
5. Desai, V. (2023). *Dynamics of Entrepreneurial Development & Management* (25th Ed.). Himalaya Publishing House.

**Books for Reference:**
1. Khanka, S. S. (2023). *Entrepreneurial Development* (2nd Ed.). S Chand Publications.
2. Sharma, S. (2023). *Entrepreneurship Development* (3rd Ed.). Kindle Edition.
3. Singal, R.K. (2022). *Entrepreneurial Development and Management* (2nd Ed.). S.K. Kataria Publishers.
4. Garg, M. C. (2022). *Entrepreneurial Development* (Revised Ed.).
5. Gordon, E. & Natrajan, K. (2022). *Entrepreneurial Development* (5th Ed.). Himalaya Publishing.

**Websites and eLearning Sources:**
1. Indeed - Entrepreneur Skills
2. Emeritus - Entrepreneurship Skills

## Course Outcomes

| CO. No. | CO-Statements<br>On Successful completion of this course, the students will be able to | Cognitive Levels<br>(K-Level) |
|---------|----------------------------------------------------------------------------------------|-------------------------------|
| CO1 | Identify the various skills of an entrepreneur. | K1 |
| CO2 | Turning ideas into business opportunities. | K2 |
| CO3 | Conduct a feasibility study before starting a business. | K3 |
| CO4 | Identify sources of funds for funding a project. | K4 |
| CO5 | Understand Government schemes available for entrepreneurship. | K5 |

## Relationship Matrix

| Semester | Course Code | Title of the Course | | Hours/Week | Credits |
|----------|-------------|---------------------|---|------------|---------|
| 4 | 25UCC44SE02 | Skill Enhancement Course – 2:<br>Entrepreneurship Development | | 2 | 1 |

| Course Outcomes | Programme Outcomes (POs) | | | | | Programme Specific Outcomes (PSOs) | | | | | Mean Score of COs |
|-----------------|------|------|------|------|------|------|------|------|------|------|------|
| | PO1 | PO2 | PO3 | PO4 | PO5 | PSO1 | PSO2 | PSO3 | PSO4 | PSO5 | |
| CO1 | 3 | 3 | 3 | 2 | 1 | 3 | 2 | 3 | 2 | 3 | 2.5 |
| CO2 | 2 | 3 | 3 | 2 | 2 | 2 | 3 | 2 | 1 | 3 | 2.3 |
| CO3 | 3 | 2 | 3 | 2 | 2 | 3 | 2 | 2 | 2 | 2 | 2.3 |
| CO4 | 3 | 3 | 2 | 2 | 2 | 3 | 3 | 3 | 2 | 3 | 2.6 |
| CO5 | 2 | 3 | 3 | 2 | 1 | 3 | 3 | 2 | 2 | 3 | 2.4 |
| Mean Overall Score | | | | | | | | | | | 2.4 (High) |

| Semester | Course Code | Title of the Course | Hours | Credits |
|----------|-------------|---------------------|-------|---------|
| 4 | 25UCC44SL03A | **Self Learning:** Orange Data Management | - | 1 |

| Course Objectives |
|---|
| Understand the fundamentals of data management and governance. |
| Explore the Orange Data Management Model. |
| Equip students with techniques for data management. |
| Develop analytical skills in data governance. |
| Assess and recommend improvements in data management frameworks. |

**UNIT I: Introduction to Data Management**

Overview of Data and Information Lifecycle - Importance of Data Management in Business - Challenges in Data Management Implementation - Introduction to Industry Reference Models (DAMA-DMBOK, DCAM, TOGAF).

**UNIT II: The Orange Data Management Model**

Concept and Origin of the Orange Model - Principles of the Orange Model - Role of Data Management as a Business Capability - The Data and Information Value Chain.

**UNIT III: Components of the Orange Model**

Standard Meta Model of Data Management - Stakeholder-Data Management Value Proposition Matrix - Standard Set of Data Management Capabilities - Maturity Assessment Techniques.

**UNIT IV: Data Governance and Business Integration**

The Role of Data Governance in Organizations - Aligning Data Management with Business Goals - Organizational Structures for Data Management - Risk Management in Data Governance.

**UNIT V: Implementation**

Steps to Implement Data Management Frameworks - Data Management Implementation - Challenges and Solutions in Data Management - Future Trends in Data Management.

**Book for Study:**
1. Steenbeek, Irina. *The Orange Model of Data Management* (2019).

**Books for References:**
1. DAMA International. DAMA-DMBOK: Data Management Body of Knowledge (2nd Edition).
2. EDM Council. DCAM: Data Capability Assessment Model (2020).
3. The Open Group. TOGAF Framework for Enterprise Architecture (9th Edition).
4. ISO 8000 Standards for Data Quality Management.
5. BCBS 239 Guidelines on Risk Data Aggregation (Basel Committee on Banking Supervision).
6. Parker, Alan. Practical Data Management: An Introduction to the Data Management Life Cycle (2021).
7. Duan, Y. and Xie, W. Data Governance and Data Management (2018).
8. Bruckner, Lawrence. Data Management: Databases and Organizations (2020).

**Websites and eLearning Sources:**
1. https://www.orange-business.com/en/solutions/consulting-digital-transformation/asset-data-management
2. https://datacrossroads.nl/the-orange-data-management-framework/
3. https://datacrossroads.nl/2020/05/18/practical-implementation-or-optimization-of-data-management-with-the-orange-model-1-overview/

| CO No. | CO-Statements<br>On successful completion of this course, students will be able to | Cognitive Levels (K –Levels) |
|---|---|---|
| CO-1 | Identify key concepts of data management and governance. | K1 |
| CO-2 | Explain the Orange Model and its role in business. | K2 |
| CO-3 | Use data management techniques to solve business challenges. | K3 |
| CO-4 | Compare different data governance models and risk factors. | K4 |
| CO-5 | Assess and recommend data management improvements. | K5 |

| Relationship Matrix | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Semester** | **Course Code** | **Title of the Course** | | | | | | | **Hours / Week** | | **Credits** |
| 4 | 25UCC44SL03A | Self Learning: Orange Data Management | | | | | | | - | | 1 |
| **Course Outcomes** | **Programme Outcomes (POs)** | | | | | **Programme Specific Outcomes (PSOs)** | | | | | **Mean Score of COs** |
| | PO1 | PO2 | PO3 | PO4 | PO5 | PSO1 | PSO2 | PSO3 | PSO4 | PSO5 | |
| CO1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2.0 |
| CO2 | 2 | 3 | 2 | 2 | 2 | 2 | 3 | 2 | 2 | 2 | 2.4 |
| CO3 | 2 | 2 | 3 | 3 | 2 | 3 | 3 | 2 | 2 | 2 | 2.5 |
| CO4 | 3 | 3 | 2 | 3 | 3 | 3 | 2 | 3 | 3 | 3 | 2.7 |
| CO5 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3.0 |
| | | | | | | | | | **Mean Overall Score** | | 2.5 (High) |

| Semester | Course Code | Title of the Course | Hours | Credits |
|---|---|---|---|---|
| **4** | **25UCC44SL03B** | **Self Learning:** Security in Information Technology | - | 1 |

| Course Objectives |
|---|
| To know the basics of Information Security |
| To understand the Threats and various Attacks |
| To understand and analyze the Risk Management |
| To implementing the various Security Mechanism |
| To analyze the various security policies |

**Unit-I: Information Security**

Introduction of information security – History-critical characteristic of Information- Components of an information system- securing components.

**Unit – II:    Business Security**

Introduction- Business needs- Threats- Attacks- Malicious code- Hoaxes-Back doors- Password crack- Brute force- Dictionary-DoS- Spoofing- Man-in-the-middle- Spam- Mail Bombing, Sniffers- Social Engineering-Buffer Overflow- Timing Attack.

**Unit – III:    Risk Management**

Introduction- overview of risk management- risk identification- risk assessment- risk control strategies-selecting a risk control strategy.

**Unit – IV:    Information Security Policy**

Introduction- information security policy- standards and practices- information security blueprint- continuity strategies- introduction to ISO27000 series.

**Unit – V:    Remote Connections**

Introduction- Physical design- Firewalls- protecting remote connections- Intrusion Detection-Access control and other tools.

**Books for study:**
1. Michael E. Whitman and Herbert J. Mattord (2012). Principles of Information Security,4th Edition, Thomson Course Technology, Boston.

**Books for Reference:**
1. Suresh K Basendra (2001). Computers Today, 1st Edition, Galgotia publication private Ltd., New Delhi.
2. Jane Calabria and Dorothy Burke (1998). Microsoft Office user Specialist, Power Point 97 Exam Guide,1st Edition, PHI New Delhi.
3. Taxali, R. k (1998). PC Software for WINDOWS Made Simple, 1st Edition, Tata McGraw– Hill Publishing Company Limited, New Delhi.

| Course Outcomes | | |
|---|---|---|
| **CO. No.** | **CO- Statements** | **Cognitive Level (K- level)** |
| | On Successful completion of this course, students will be able to | |
| **CO-1** | Know the basics of Information Security | **K1** |
| **CO-2** | Understand the Threats and various Attacks | **K2** |
| **CO-3** | Understand and analyze the Risk Management | **K3** |
| **CO-4** | Implementing the various Security Mechanism | **K4** |
| **CO-5** | Analyze the various security policies | **K5** |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Relationship Matrix** |

| Semester | Course Code | | Title of the Course | Hours | Credits |
|---|---|---|---|---|---|
| **4** | **25UCC44SL03B** | | **Self Learning:** Security in Information Technology | **-** | **1** |

| Course Outcomes↓ | | Programme Outcomes (PO) | | Programme Specific Outcomes (PSO) | Mean Scores of COs |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | PO1 | PO2 | PO3 | PO4 | PO5 | PSO1 | PSO2 | PSO3 | PSO4 | PSO5 | |
| **CO-1** | 3 | 2 | 2 | 1 | 2 | 3 | 3 | 2 | 2 | 2 | 2.2 |
| **CO-2** | 3 | 3 | 2 | 2 | 3 | 1 | 3 | 3 | 2 | 2 | 2.4 |
| **CO-3** | 2 | 3 | 3 | 2 | 2 | 2 | 2 | 3 | 1 | 2 | 2.2 |
| **CO-4** | 3 | 3 | 2 | 1 | 2 | 3 | 3 | 3 | 2 | 2 | 2.4 |
| **CO-5** | 2 | 3 | 3 | 2 | 2 | 2 | 3 | 2 | 2 | 1 | 2.3 |
| | **Mean Overall Score** | **2.3 (High)** |

| Semester | Course Code | Title of the Course | Hours | Credits |
|---|---|---|---|---|
| 5 | 25UCC53CC09 | **Core Course – 9:** Cost Accounting | 6 | 4 |

| Course Objectives |
|---|
| To enlighten the concepts of cost accounting and various material control techniques. |
| To compute the labour cost under different methods of wage payment systems and the rate of labour turn over |
| To allocate the overheads to various departments under primary and secondary distribution systems and to compute the machine hour rate |
| To have through knowledge on the practical application of process costing. |
| To apply the contract Costing, Service and Operating cost techniques in the respective industries. |

**UNIT I: Introduction to Cost Accountancy** (18 Hours)

Introduction- Cost, Costing and Cost Accountancy – Functions of Cost Accounting - Comparison of cost accounting and management Accounting and Financial Accounting - classification Cost –Methods costing– Techniques of costing Preparation of Cost Sheet. - Material cost -Purchase procedure, store keeping and stock control, Pricing and issue of materials, Stores Ledger: FIFO, LIFO, Specific price, Base stock, Highest In- First-out, Average price methods and Notional price methods. ABC analysis, level of inventories, EOQ, JIT and VED analysis

**UNIT II: Labour costing** (18 Hours)

Labour costing: –Remuneration methods, monetary and non-monetary incentive schemes, pay roll procedures, labour analysis and idle time, measurement of labour efficiency and productivity, analysis of non-productive time and their cost, labour turnover and remedial measures, treatment of idle time and over time.

**UNIT III: Overhead costing** (18 Hours)

Overhead Costing: - classification - apportionment - production overheads distribution, appropriation, absorption by products, treatment of under and over –absorption, administration, selling and distribution overheads-machine hour rate.

**UNIT IV: Reconciliation of cost and financial accounts and Process costing** (18 Hours)

Reconciliation of cost and financial accounts - Process costing – Simple process accounts including Normal Loss, Abnormal Loss and Abnormal Gain Treatments-Inter process profits. - Equivalent production method (simple problems only)

**UNIT V: Operating Costing** (18 Hours)

Ancient Indian logistics and transport costing - Costing in Ancient Indian Inns & Hospitality Centers- Ancient Indian Healthcare Costing - - operating costing -Introduction- types - Cost unit in operating costing – Procedure of operating costing – Transport costing – Cinema house operating costing – Hotel operating costing – Hospital operating costing

| Teaching Methodology | Chalk and talk, PPT, |
|---|---|
| Assessment Methods | Seminar, Snap Test, MCQ |

**Books for Study:**

1. Jain &Narang-Cost Accounting Principles and Practice – Kalyani Publishers, 2016.

**Books for Reference:**

1. K. Alex, (2015) Cost Accounting, Pearson Publication, New Delhi
2. A Moorthy and S. Gurusamy- 2024 Cost accounting- Vijay Nicole Imprints Private Limited Publication, - Chennai-
3. M. N. Arora, 2016 Cost and Management Accounting Problem and Solution, Himalaya Publishers
4. T.S. Reddy &Hari Prasad Reddy - Cost and Management Accounting, Margham Publications, Chennai

**Websites and eLearning Sources:**

1. https://www.icai.org/post/17759
2. https://icmai.in/studentswebsite/Syl-2022-Inter-Stdy-Mtrls.php
3. https://tndalu.ac.in/econtent/14_Cost_And_Management_Study_Material.pdf
4. https://onlinecourses.nptel.ac.in/noc24_mg114/preview
5. https://www.icsi.edu/WebModules/Publications/FULL_BOOK_PP-CMA-2017-JULY_4.pdf

| | Course Outcomes | |
|---|---|---|
| **CO. No** | **CO- Statement** | **Cognitive Level (K- level)** |
| | On completion of this course, the students will be able to | |
| **CO-1** | Gain knowledge on the concepts of cost accounting techniques. | **K1** |
| **CO-2** | Understand different methods of material control, wage payment systems, overhead allocation, process costing techniques, contract costing and operating costing | **K2** |
| **CO-3** | Apply the cost accounting techniques in industries | **K3** |
| **CO-4** | Analyze the practical application of cost accounting techniques. | **K4** |
| **CO-5** | Evaluate various elements of cost related to material, labour, overheads and process costing, contract costing and operating costing. | **K5** |

| | Relationship Matrix | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Semester** | **Course Code** | | **Title of the Course** | | | | | | | **Hours** | **Credits** |
| **5** | **25UCC53CC09** | | **Core Course – 9:** Cost Accounting | | | | | | | **6** | **4** |
| **Course Outcomes↓** | **Programme Outcomes (PO)** | | | | | **Programme Specific Outcomes (PSO)** | | | | | **Mean Scores of Cos** |
| | **PO1** | **PO2** | **PO3** | **PO4** | **PO5** | **PSO1** | **PSO2** | **PSO3** | **PSO4** | **PSO5** | |
| **CO-1** | 3 | 3 | 3 | 3 | 1 | 3 | 3 | 3 | 1 | 3 | 2.6 |
| **CO-2** | 3 | 2 | 3 | 3 | 1 | 3 | 3 | 3 | 1 | 2 | 2.4 |
| **CO-3** | 3 | 3 | 3 | 3 | 1 | 3 | 3 | 3 | 1 | 2 | 2.5 |
| **CO-4** | 3 | 2 | 3 | 1 | 1 | 3 | 3 | 3 | 1 | 3 | 2.3 |
| **CO-5** | 3 | 3 | 2 | 1 | 1 | 3 | 3 | 3 | 1 | 3 | 2.3 |
| | | | | | | | | **Mean Overall Score** | | | **2.42 (High)** |

| Semester | Course Code | Title of the Course | Hours/Week | Credits |
|---|---|---|---|---|
| 5 | 25UCC53CC10 | **Core Course - 10:** Python Programming | 3 | 2 |

| Course Objectives |
|---|
| To understand the structure of a Python program and its execution process. |
| To demonstrate the use of variables, operators, and expressions. |
| To explain and implement Decision making statements. |
| To analyze the purpose of using looping statements. |
| To define and call functions, including built-in and user-defined functions. |

## UNIT I: Introduction to Python (9 Hours)

Basics of Python Programming: Features of Python - How to Run Python - Identifiers - Reserved Keywords - Variables -Comments in Python - Indentation in Python - Multi-Line Statements - Multiple Statement Group (Suite) - Quotes in Python - Input, Output and Import Functions.

## UNIT II: Operators & Data Types (9 Hours)

Operators-Numbers – Strings – List – Tuple – Set – Dictionary – Data type conversion.

## UNIT III: Control Statements (9 Hours)

Control Statements: Selection/Conditional Branching statements: if, if-else, nested if and if-elif-else statements.

## UNIT IV: Iterative Statements (9 Hours)

While loop, For loop, Else suite in loop and Nested loops. Jump Statements: Break, Continue and Pass statements.

## UNIT V: Functions (9 Hours)

Function Definition –Function Calling - Function Arguments - Recursive Functions - Function with more than one return value.

| Teaching Methodology | Videos, PPT, Demonstration, Hands on Session and Lecture Methods. |
|---|---|
| Assessment Methods | MCQ, Exercise programs |

**Books for Study:**
1. Jeeva Jose and P. SojanL al (2016), "Introduction to Computing and Problem Solving with
2. PYTHON", Khanna Book Publishing Co. (P) Ltd., New Delhi.
3. Thareja, R. (2017). Python programming using problem solving approach, (1st Ed.). Oxford University Press.
4. Rao, N. R. (2017). *Core Python programming,* (1stEd.) Dream tech Publishers.

**Books for Reference:**
1. Kurama, V. (2018). Python programming: A moderna pproach. Pearson Education.
2. Lambert, K. A. (2017). Fundamentals of Python-First programs. Cengage Publication.

**Websites and eLearning Sources:**
1. https://www.programiz.com/python-programming
2. https://www.guru99.com/python-tutorials.html
3. https://www.w3schools.com/python/python_intro.asp
4. https://www.geeksforgeeks.org/python-programming-language/
5. https://en.wikipedia.org/wiki/Python_(programming_language)

## Course Outcomes

| CO No. | CO-Statements<br>On successful completion of this course, the students will be able to | Cognitive Levels (K-Level) |
|---|---|---|
| CO1 | understand the syntax, semantics, and structure of Python programs. | K1 |
| CO2 | Demonstrate the ability to write and execute Python scripts effectively. | K2 |
| CO3 | Differentiate between Python's built-in data structures | K3 |
| CO4 | Understand and describe conditional statements and looping statements. | K4 |
| CO5 | Describe how to implement functions. | K5 |

## Relationship Matrix

| Semester | Course Code | Title of the Course | | Hours/Week | Credits |
|---|---|---|---|---|---|
| 5 | 25UCC53CC10 | Core Course - 10: Python Programming | | 3 | 2 |

| Course Outcomes | Programme Outcomes (POs) | | | | | Programme Specific Outcomes (PSOs) | | | | | Mean Score of COs |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | PO1 | PO2 | PO3 | PO4 | PO5 | PSO1 | PSO2 | PSO3 | PSO4 | PSO5 | |
| CO1 | 3 | 2 | 1 | 1 | 3 | 3 | 2 | 3 | 2 | 2 | 2.2 |
| CO2 | 3 | 2 | 3 | 3 | 2 | 1 | 3 | 2 | 2 | 2 | 2.3 |
| CO3 | 3 | 3 | 2 | 3 | 1 | 3 | 2 | 3 | 2 | 3 | 2.5 |
| CO4 | 2 | 2 | 3 | 1 | 3 | 2 | 3 | 2 | 3 | 3 | 2.4 |
| CO5 | 2 | 3 | 2 | 2 | 2 | 2 | 3 | 2 | 2 | 2 | 2.2 |
| | | | | | | | | | Mean Overall Score | | 2.32 (High) |

| Semester | Course Code | Title of the Course | Hours/Week | Credits |
|---|---|---|---|---|
| 5 | 25UCC53CP05 | **Core Practical - 5:** Python Programming | 3 | 2 |

| Course Objectives |
|---|
| To understand the structure of a Python program and its execution process. |
| To demonstrate the use of variables, operators, and expressions. |
| To explain and implement Decision making statements. |
| To define and call functions, including built-in and user-defined functions. |
| To explain the purpose and use of Python modules. |

**List of Exercises**
1. write a simple program using variables
2. write a program to implement operators
3. write a program to implement various data structures
4. write a program using Conditional Statements
5. write a program using Loops
6. write a program using Jump Statements
7. write a program using Functions and Recursion
8. write a program using Arrays
9. write a program using Strings
10. write a program using Modules

| Teaching Methodology | Videos, PPT, Demonstration, Hands on Session and Lecture Methods. |
|---|---|
| Assessment Methodology | Practical examination |

**Books for Study:**
1. Jeeva Jose and P. Sojan Lal (2016), "Introduction to Computing and Problem Solving with
2. PYTHON", Khanna Book Publishing Co. (P) Ltd., New Delhi.
3. Thareja, R. (2017). Python programming using problem solving approach, (1st Ed.). Oxford University Press.
4. Rao, N. R. (2017). *Core Python programming,* (1stEd) Dream tech Publishers.

**Books for Reference:**
1. Kurama, V. (2018). Python programming: A modern approach. Pearson Education.
2. Lambert, K. A. (2017). Fundamentals of Python-First programs. Cengage Publication.

**Websites and eLearning Sources:**
1. https://www.programiz.com/python-programming
2. https://www.guru99.com/python-tutorials.html
3. https://www.w3schools.com/python/python_intro.asp
4. https://www.geeksforgeeks.org/python-programming-language/
5. https://en.wikipedia.org/wiki/Python_(programming_language)

| Course Outcomes | | |
|---|---|---|
| **CO No.** | **CO-Statements** | **Cognitive Levels (K-Level)** |
| | On successful completion of this course, the students will be able to | |
| CO1 | Understand the syntax, semantics, and structure of Python programs. | K1 |
| CO2 | Demonstrate the ability to write and execute Python scripts effectively. | K2 |
| CO3 | Differentiate between Python's built-in data structures | K3 |
| CO4 | Understand and describe conditional statements and looping statements. | K4 |
| CO5 | Describe how to use and import Python modules and libraries. | K5 |

| Relationship Matrix | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| **Semester** | **Course Code** | | **Title of the Course** | | | | | **Hours/Week** | **Credits** | |
| **5** | **25UCC53CP05** | | **Core Practical - 5:** Python Programming | | | | | **3** | **2** | |
| **Course Outcomes** | **Programme Outcomes (POs)** | | | | | **Programme Specific Outcomes (PSOs)** | | | | **Mean Score of COs** |
| | **PO1** | **PO2** | **PO3** | **PO4** | **PO5** | **PSO1** | **PSO2** | **PSO3** | **PSO4** | **PSO5** | |
| **CO1** | 3 | 2 | 1 | 1 | 3 | 3 | 2 | 3 | 2 | 2 | **2.2** |
| **CO2** | 3 | 2 | 3 | 3 | 2 | 1 | 3 | 2 | 2 | 2 | **2.3** |
| **CO3** | 3 | 3 | 2 | 3 | 1 | 3 | 2 | 3 | 2 | 3 | **2.5** |
| **CO4** | 2 | 2 | 3 | 1 | 3 | 2 | 3 | 2 | 3 | 3 | **2.4** |
| **CO5** | 2 | 3 | 2 | 2 | 2 | 2 | 3 | 2 | 2 | 2 | **2.2** |
| | | | | | | | | | **Mean Overall Score** | **2.32 (High)** | |

| Semester | Course Code | Title of the Course | Hours/Week | Credits |
|---|---|---|---|---|
| 5 | 25UCC53CC11 | **Core Course - 11:** Research Methodology | 6 | 3 |

| Course Objectives |
|---|
| To introduce the fundamental concepts and significance of research methodology in academic and professional contexts |
| To familiarize students with various research designs and methodologies applicable to different disciplines. |
| To develop skills for data collection, analysis, and interpretation using appropriate research tools. |
| To understand the ethical considerations and reporting standards in research. |
| To enable students to design and execute a complete research project from problem identification to report writing. |

**UNIT I: Introduction to Research Methodology** (18 Hours)

Meaning, Objectives, and Significance of Research - Types of Research: Basic, Applied, Descriptive, Analytical, and Exploratory - Research Process: An Overview Identification and Formulation of Research Problem - Review of Literature and Its Importance

**UNIT II: Research Design and Planning** (18 Hours)

Meaning and Importance of Research Design **-** Features of a Good Research Design **-** Types of Research Design: Exploratory, Descriptive, Diagnostic, and Experimental **-** Hypothesis Formulation and Testing **-** Sampling Techniques and Sample Size Determination

**UNIT III: Data Collection Methods** (18 Hours)

Types of Data: Primary and Secondary **-** Methods of Data Collection: Observation, Interview, Questionnaire, and Schedule **-** Scaling Techniques and Measurement in Research **-** Reliability and Validity of Data **-** Ethical Issues in Data Collection

**UNIT IV: Data Analysis and Interpretation** (18 Hours)

Processing and Preparation of Data for Analysis **-** Descriptive and Inferential Statistical Techniques**-** Use of Software Tools for Data Analysis (e.g., SPSS, Excel)**-** Interpretation of Results and Drawing Conclusions **-** Report Writing: Structure, Content, and Referencing Styles

**UNIT V: Presentation and Ethical Aspects of Research** (18 Hours)

Presentation of Research Findings: **-** Plagiarism and Academic Integrity in Research **-** Ethical Guidelines in Conducting Research **-** Limitations of Research and Future Research Directions Role of Research in Policy Formulation and Business Decisions

| | |
|---|---|
| **Teaching Methodology** | Interactive lectures supplemented with multimedia presentations - Hands-on workshops on data analysis tools and techniques - Group discussions and presentations on research case studies - Practical assignments involving literature reviews and research proposal writing. -Expert talks from industry professionals and researchers on contemporary research trends. |
| **Assessment Methods** | Seminar, Snap Test, MCQ |

**Books for Study:**
1. Kothari, C. R. (2004). *Research Methodology: Methods and Techniques* (2nd ed.). New Age International.
2. Kumar, R. (2019). *Research Methodology: A Step-by-Step Guide for Beginners* (5th ed.). SAGE Publications.
3. Creswell, J. W. (2018). *Research Design: Qualitative, Quantitative, and Mixed Methods Approaches* (5th ed.). SAGE Publications.

**Books for Reference:**
1. Saunders, M., Lewis, P., & Thornhill, A. (2019). *Research Methods for Business Students* (8th ed.). Pearson Education.
2. Neuman, W. L. (2014). *Social Research Methods: Qualitative and Quantitative Approaches* (7th ed.). Pearson.

## Websites and eLearning Sources:

1. ResearchGate. (n.d.). *Research Methodology Resources*. https://www.researchgate.net/
2. SAGE Research Methods. (n.d.). *Learn about Research Methods*. https://methods.sagepub.com/
3. Harvard University. (n.d.). *Research Methods and Analysis*. https://www.harvard.edu/
4. Coursera – *Understanding Research Methods* (https://www.coursera.org/learn/research-methods)
5. edX – *Research Methods in Social Sciences* (https://www.edx.org/)
6. LinkedIn Learning – *Research Methods and Statistics* (https://www.linkedin.com/learning/)

| Course outcomes | | |
|---|---|---|
| **CO No.** | **CO-Statements** | **Cognitive Levels (K-Level)** |
| | On successful completion of this course, the students will be able to | |
| **CO1** | Recall key concepts and definitions related to research methodology. | **K1** |
| **CO2** | Explain different research methods and their appropriate applications. | **K2** |
| **CO3** | Apply suitable research methods and tools to real-life research problems. | **K3** |
| **CO4** | Analyse research data and interpret results effectively. | **K4** |
| **CO5** | Evaluate research designs, methodologies, and outcomes critically | **K5** |

| Relationship Matrix | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| **Semester** | **Course Code** | | **Title of the Course** | | | **Hours/Week** | | | **Credits** | |
| **5** | **25UCC53CC11** | | **Core Course - 11:** Research Methodology | | | **6** | | | **3** | |
| **Course Outcomes** | **Programme Outcomes (POs)** | | | | | **Programme Specific Outcomes (PSOs)** | | | | **Mean Score of COs** |
| | **PO1** | **PO2** | **PO3** | **PO4** | **PO5** | **PSO1** | **PSO2** | **PSO3** | **PSO4** | **PSO5** |
| **CO1** | 3 | 2 | 3 | 2 | 2 | 3 | 2 | 2 | 3 | 2 | **2.4** |
| **CO2** | 2 | 3 | 2 | 3 | 2 | 3 | 2 | 3 | 2 | 1 | **2.3** |
| **CO3** | 2 | 2 | 3 | 2 | 1 | 3 | 3 | 2 | 3 | 1 | **2.2** |
| **CO4** | 3 | 3 | 2 | 3 | 2 | 3 | 3 | 2 | 3 | 2 | **2.6** |
| **CO5** | 2 | 2 | 3 | 2 | 1 | 3 | 2 | 3 | 2 | 1 | **2.1** |
| | | | | | | | | | **Mean Overall Score** | **2.4 (High)** |

| Semester | Course Code | Title of the Course | Hours/Week | Credits |
|---|---|---|---|---|
| 5 | 25UCC53ES01A | **Discipline Specific Elective - 1:** Accounts Assistant (NSQF Based paper) | 4 | 3 |

| Course Objectives |
|---|
| To Analyze different types of tax liabilities, evaluate tax compliance documents, and prepare tax challans to execute accurate tax payments. |
| To learn to Collect and verify income tax declarations from employees, compute net salaries after deductions, and prepare detailed salary statements showing earnings and deductions. |
| To Examine receipt and payment documents, record financial transactions systematically in the books of accounts, prepare reconciliation statements, and implement effective cash and inventory management practices. |
| To Prepare provisions under various accounting heads, calculate depreciation, and summarize financial results through simple statements such as the Profit and Loss Account and Balance Sheet. |
| To Demonstrate effective communication with customers, superiors, and colleagues; maintain a strong service orientation; and ensure customer satisfaction in all professional interactions. |

**UNIT I: Introduction to Accounts Assistant** (12 Hours)

Objective of Accounts Assistant – Duties and Responsibilities of Accounts Assistant – Requirement of Accounts Assistant

**UNIT II: Financial Accounting and Reporting** (12 Hours)

Discuss Basic Accounting concepts and Accounting Terminologies – Explain Book Keeping – Discuss the Elements of Financial Statement – Explain Bank Reconciliation Statement – Narrate Trail Balance – Describe Trading and Profit and Loss Account – Cash flow and Fund Flow statement – Ratio Analysis – Discuss Balance sheet **and practical on**: Preparation of receipts and payment accounts with the Help of Online Practical Tool – Preparation of Income and expenditure statements with the Help of Online Practical Tool – Preparation of Income Statement – Prepare Balance sheet with the Help of Online Practical Tool – Prepare Cash Flow Statement – Preparation of Equity statement with the Help of Online Practical Tool – Calculation of Ratios

**UNIT III: Labor Laws and Payroll Accounting** (12 Hours)

Explain Contract Act – Law of Payment of Wages Act and Minimum Wages Act – Law of Employees' State Insurance Act – Discuss Applicability of ESIC – Explain Provident Fund Act – Identify Applicability of EPFO – Discuss Payment of Bonus Act – Describe Payment Gratuity Act – Explain Payroll Accounting **and practical on**: Preparation of Employees Register – Computation of Salary – Computation of Deduction from salary – Registration of ESIC – Registration of EPFO – Online PAN application

**UNIT IV: Income under Income Tax act 1961** (12 Hours)

Discuss Overview of Income Tax – Identify the Steps for Computing Total Income – Discuss the Tax Rate – Narrate the Residential Status – Discuss the Heads of Income – Explain the Clubbing of Income – Describe set off losses and carryforward losses – Narrate TDS, TCS and Advance Tax – Over view of Chapter VI A – Discuss the Deductions U/S 80C to 80U – Describe PAN – Explain steps of Income Tax Return – Discuss Assessment Procedure – Narrate Interest and Penalty – Identify the Steps for Income Tax Refund – Explain Presumptive Tax **and Practical on**: Computation of Total Income – Calculation of Tax Liability – Calculations and Computations of Deductions – Online PAN registration for ITR filing – Filing of ITR1, ITR2, ITR3, ITR4, ITR5, ITR6, ITR7

**UNIT V: Employability Skills** (12 Hours)

Discuss employability skills required for jobs in various industries – Explain ways to explore learning and employability portals – Discuss the significance of legal values, including civic rights and duties, citizenship, responsibility towards society etc. And personal values and ethics such as honesty, integrity, caring and respecting others, etc. – Explain the significance of 21st century skills for employment – Describe the benefits of the continuous learning – Explain how to read and understand routine information, notes, instructions, mails, letters etc. Written in English – List the difference between job and career – Communicate and behave appropriately with all genders and pwd – Discuss how to escalate any issues related to sexual harassment at workplace according to posh act – List common components of salary and

compute income, expenses, taxes, investments etc – Discuss relevant rights and laws and use legal aids to fight against legal exploitation – Identify and list different types of entrepreneurship and enterprises and assess opportunities for potential business through research – Identify and list sources of funding, anticipate, and mitigate any financial/ legal hurdles for the potential business opportunity – Explain how to identify different types of customers – Identify and list apprenticeship opportunities and register for it as per guidelines and requirements **and Practical on**: Demonstrate how to follow environmentally sustainable practices – Role play the 21st century skills such as self-awareness, behaviour skills, time management, critical and adaptive thinking, problem-solving, creative thinking, social and cultural awareness, emotional awareness, learning to learn for continuous learning etc. In personal and professional life – Practice the use basic English for everyday conversation in different contexts, in person and over the telephone – Write short messages, notes, letters, e-mails etc. In English – Prepare a sample career development plan with short- and long-term goals, based on aptitude – Practice following verbal and non-verbal communication etiquette and active listening techniques in various settings – Roleplay how to work collaboratively with others in a team – Roleplay how to escalate any issues related to sexual harassment at workplace according to posh act – Show how to select financial institutions, products and services as per requirement – Practice how to carry out offline and online financial transactions, safely and securely – Operate digital devices and carry out basic internet operations securely and safely – Demonstrate the use of e- mail and social media platforms and virtual collaboration tools to work effectively – Practice the of use basic features of word processor, spreadsheets, and presentations – Develop a sample business plan and a work model, considering the 4ps of marketing product, price, place and promotion – Role play how to respond to customer requests and needs in a professional manner – Show how to follow appropriate hygiene and grooming standards – Create a sample professional curriculum vitae (résumé) – Practice how to search for suitable jobs using reliable offline and online sources such as employment exchange, recruitment agencies, newspapers etc. And job portals, respectively – Show how to apply to identified job openings using offline /online methods as per requirement – Demonstrate how to answer questions politely, with clarity and confidence, during recruitment and selection.

**Classroom Aids**
Training kit (Trainer guide, Presentations), White board, Marker, Projector screen, Power Point – Presentation Laptop with charger, Participant Handbook and Related Standard Operating – Procedures, 2.1 Laptop External Speakers

**Tools, Equipment and Other Requirements:**
Sample customer portfolio, Customer's FAQ, NFO (New Fund Offering), Sample comparative analysis report, PPE, Basic Stationary, digital devices as per the requirement

| Course Outcomes | | |
|---|---|---|
| **CO No.** | **CO-Statements**<br>On successful completion of this course, students will be able to | **Cognitive Levels (K - Level)** |
| **CO1** | Understand the Objective of Accounts Assistant and Duties and Responsibilities of Accounts Assistant. | **K1** |
| **CO2** | Understanding the techniques of preparing the financial statements | **K2** |
| **CO3** | Apply the knowledge of Labor Laws and Payroll Accounting in business. | **K3** |
| **CO4** | Evaluate the various concepts of Tax Planning, Tax Management, Tax Evasion, carry forward loss and setoff loss, Deduction calculation techniques, computation of total received income, PAN and Registration, calculate Penalty and Refund and various features of Presumptive tax. | **K4** |
| **CO5** | Develop employability skills, Constitutional values, Career development & goal setting, Communication skills, Getting ready for apprenticeship & jobs Essential digital skills, and Entrepreneurship. | **K5** |

| Relationship Matrix | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| **Semester** | **Course Code** | | **Title of the Course** | | | | | | **Hours** | **Credits** |
| **5** | **25UCC53ES01A** | | **Discipline Specific Elective - 1:** Accounts Assistant (NSQF Based paper) | | | | | | **4** | **3** |
| **Course Outcomes** | **Programme Outcomes (POs)** | | | | | **Programme Specific Outcomes (PSOs)** | | | | **Mean Score of COs** |
| | **PO1** | **PO2** | **PO3** | **PO4** | **PO5** | **PSO1** | **PSO2** | **PSO3** | **PSO4** | **PSO5** | |
| **CO1** | 3 | 2 | 2 | 3 | 2 | 3 | 2 | 1 | 2 | 1 | **2.1** |
| **CO2** | 3 | 2 | 3 | 3 | 2 | 3 | 2 | 2 | 2 | 1 | **2.3** |
| **CO3** | 3 | 2 | 3 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | **2.6** |
| **CO4** | 3 | 2 | 3 | 2 | 2 | 3 | 3 | 3 | 2 | 1 | **2.6** |
| **CO5** | 3 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 1 | **2.6** |
| | | | | | | | | | **Mean Overall Score** | | **2.6 (High)** |

| Semester | Course Code | Title of the Course | Hours | Credits |
|----------|-------------|---------------------|-------|---------|
| 5 | 25UCC53ES01B | **Discipline Specific Elective - 1:** Machine Learning | 4 | 3 |

| Course Objectives |
|-------------------|
| To understand the fundamentals of Machine Learning and its applications in commerce and accounting. |
| To differentiate between AI, ML, and Data Science and explore various ML techniques. |
| To apply data preprocessing, feature engineering, and data transformation techniques for financial and business applications. |
| To implement supervised and unsupervised learning models for tasks such as fraud detection and customer segmentation. |
| To utilize ML tools like Python, R, and AutoML for business decision-making and predictive analytics. |

## UNIT I: Machine Learning and Applications in Commerce          (12 Hours)

Basics of Machine Learning (ML)-Differences between AI, ML, and Data Science-Types of Machine Learning: Supervised, Unsupervised, and Reinforcement Learning-Role of ML in Commerce and Accounting-Applications in Finance, Taxation, and Business Analytics.

## UNIT II: Data Preprocessing and Feature Engineering          (12 Hours)

Understanding Data: Structured vs. Unstructured Data-Data Cleaning and Handling- Missing Values-Feature Engineering and Feature Selection-Data Normalization and Standardization-Importance of Data in Commerce: Financial and Customer Data Processing

## UNIT III: Supervised Learning Techniques          (12 Hours)

Introduction to Regression (Linear & Logistic)-Classification Algorithms (Decision Trees, Random Forest, Naïve Bayes)-Performance Metrics: Accuracy, Precision, Recall, F1 Score-Use Cases in Commerce: Fraud Detection, Customer Churn Prediction

## UNIT IV: Unsupervised Learning and Clustering Techniques          (12 Hours)

Clustering Algorithms (K-Means, Hierarchical Clustering)-Dimensionality Reduction-Principal Component Analysis (PCA)-Market Basket Analysis (Association Rule Mining – Apriori Algorithm)-Customer Segmentation and Behavioral Analysis

## UNIT V: ML Tools and Business Decision Making          (12 Hours)

Introduction to ML Tools: Excel, Python (Pandas, Scikit-Learn), R-Introduction to Automated ML (AutoML)-Ethical Considerations and Challenges in ML for Commerce-Case Studies: Financial Forecasting, Risk Analysis, and Personalized Marketing.

| Teaching Methodology | PPT, Video |
|----------------------|------------|
| Assessment Methods: | Slip Test, MCQ, Model Development |

**Books for Study:**
1. "Machine Learning for Business Analytics: Concepts, Techniques, and Applications with Python and R", By GalitShmueli, Peter C. Bruce, InbalYahav, Nitin R. Patel, Kenneth C. Lichtendahl Jr.,II Edition,,ISBN: 978-1-119-83517-2,March 2023,
2. "Machine Learning for Absolute Beginners", By Oliver Theobald, Third Edition, 2017,
3. "Data Science for Business", By Foster Provost and Tom Fawcett, Published by, Shroff/O'Reilly,
4. "Hands-On Machine Learning with Scikit-Learn, Keras, and TensorFlow", By AurélienGéron, Third Edition, ISBN:9355421982, published BY Shroff/O'Reilly.

**Books for Reference:**
1. "Python for Data Analysis" – By Wes McKinney (for data preprocessing)
2. "Introduction to Data Mining" – By Pang-Ning Tan, Michael Steinbach, Vipin Kumar (for clustering & association rules)
3. "Applied Predictive Modeling" – By Max Kuhn &Kjell Johnson (for supervised learning)

**Websites and eLearning Sources:**

1. Google's Machine Learning Crash Course – https://developers.google.com/machine-learning/crash-course
2. Coursera – Machine Learning by Andrew Ng (Stanford University)
3. edX – Data Science for Business by Harvard University

| CO. No. | CO Statements | Cognitive Level (K- level) |
|---|---|---|
| **CO1** | Ability to understand and apply Machine Learning concepts in commerce and business analytics. | **K1** |
| **CO2** | Ability to preprocess, clean, and transform financial and customer data for ML applications. | **K2** |
| **CO3** | Ability to implement supervised learning techniques for classification, regression, and fraud detection. | **K3** |
| **CO4** | Ability to apply unsupervised learning methods for customer segmentation and market analysis. | **K4** |
| **CO5** | Ability to use ML tools and techniques for data-driven business decision-making and financial forecasting. | **K5** |

| Relationship Matrix | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Semester** | **Course Code** | | **Title of the Course** | | | | | | | | **Hours** | **Credits** |
| **5** | **25UCC53ES01B** | | **Discipline Specific Elective - 1:** Machine Learning | | | | | | | | **4** | **3** |
| **Course Outcomes↓** | **Programme Outcomes (PO)** | | | | | **Programme Specific Outcomes (PSO)** | | | | | **Mean Scores of COs** | |
| | PO1 | PO2 | PO3 | PO4 | PO5 | PSO1 | PSO2 | PSO3 | PSO4 | PSO5 | | |
| **CO-1** | 3 | 3 | 2 | 2 | 1 | 3 | 2 | 3 | 1 | 1 | 2.1 | |
| **CO-2** | 3 | 1 | 3 | 1 | 1 | 3 | 2 | 3 | 1 | 2 | 2 | |
| **CO-3** | 3 | 3 | 3 | 2 | 1 | 3 | 1 | 3 | 1 | 3 | 2.3 | |
| **CO-4** | 3 | 1 | 3 | 3 | 2 | 3 | 2 | 3 | 1 | 2 | 2.3 | |
| **CO-5** | 3 | 3 | 3 | 1 | 2 | 3 | 2 | 3 | 1 | 2 | 2.3 | |
| | | | | | | | | | | **Mean Overall Score** | 2.2 | |
| | | | | | | | | | | | High | |

| Semester | Course Code | Title of the Course | Hours | Credits |
|----------|-------------|---------------------|-------|---------|
| 5 | 25UCC53ES02A | **Discipline Specific Elective – 2:** Human Resource Management | 4 | 3 |

| Course Objectives |
|-------------------|
| To Know the concept of Human resource management in an organization. |
| To apply Recruitment, slection and staffing in selection technique. |
| To Analyze the training and development in an organization. |
| To Evaluate the the performance management through performance appraisal |
| To Create compensation and benefits management in performance system. |

## Unit 1: Introduction to Human Resource Management                    (12 Hours)

Definition and scope of HRM - Importance of HRM in organizational success - Evolution of HRM from Personnel Management to Strategic HRM - HRM functions and their role in achieving organizational goals - HRM vs. Traditional Management

## Unit 2: Recruitment, Selection, and Staffing                    (12 Hours)

Recruitment process: internal vs. external sourcing - Job analysis and job design - Selection techniques (interviews, tests, assessments) - Induction and orientation programs - Managing diversity in recruitment and selection

## Unit 3: Training and Development                    (12 Hours)

Importance of training in HRM - Training needs analysis - Designing and implementing training programs - Methods of training (on-the-job vs. off-the-job) - Employee development vs. training - Career planning and development

**Ethical Leadership (Dharma)**: *The concept of* **Dharma** *in the Bhagavad Gita emphasizes the importance of righteous leadership. Training can focus on ethical decision-making, leading with integrity, and managing challenges with wisdom.*

## Unit 4: Performance Management                    (12 Hours)

Setting performance standards and objectives - Performance appraisal methods (360-degree feedback, self-assessment, etc.) - Reward systems and recognition - Dealing with underperformance and improvement plans -Employee motivation theories (Maslow, Herzberg, McGregor, etc.)

## Unit 5: Compensation and Benefits Management                    (12 Hours)

Compensation strategy and structures -Wage and salary administration - Incentive and bonus systems - Employee benefits (healthcare, retirement plans, etc.) - Legal compliance in compensation (equal pay, labor laws) - Pay-for-performance systems

| Teaching Methodology | PPT, Chalk and Talk |
|----------------------|---------------------|
| Assessment Methods | Seminar, Snap Test, MCQ |

**Books for Study:**
1. *Human Resource Management, (2020,)* Gary Dessler - Pearson Education, 15th Edition
2. *Human Resource Management: A Contemporary Approach (2023)*

**Books for Reference**:
1. *Fundamentals of Human Resource Management, (*2023) Robert N. Lussier, John R. Hendon, Sage Publications, 6th Edition,
2. *Training and Development: Enhancing Communication and Leadership Skills, (*2020) Steve McCartney, Dave Francis, Cengage Learning
3. *Employee Training & Development, (2020),* Raymond A. Noe, McGraw-Hill Education, 7th Edition

**Websites and e Learning Sources:**
1. https://www.techtarget.com/searchhrsoftware/definition/human-resource-management-HRM
2. https://en.wikipedia.org/wiki/Human_resource_management

3. https://onlinelibrary.wiley.com/journal/1099050x
4. https://learn.saylor.org/course/view.php?id=767
5. https://courses.leeds.ac.uk/7615/human-resource-management-ma

| | Course Outcomes | |
|---|---|---|
| **Co No.** | **CO- Statements**<br>On successful completion of this course, the students will be able to | **Cognitive Level (K- level)** |
| **CO 1** | Relate the importance of human resource management | **K1** |
| **CO 2** | Reflect on the recruitment, selection process in the management | **K2** |
| **CO 3** | Explain the training methods of the employees in the management. | **K3** |
| **CO 4** | Compare the performance methods applied in the management | **K4** |
| **CO 5** | Determine the compensation and benefit management practices. | **K5** |

| Relationship Matrix | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Semester** | **Course Code** | | **Title of the Course** | | | | | | | **Hours** | **Credits** |
| **5** | **25UCC53ES02A** | | **Discipline Specific Elective – 2:** Human Resource Management | | | | | | | **4** | **3** |
| **Course Outcomes↓** | **Programme Outcomes (PO)** | | | | | **Programme Specific Outcomes (PSO)** | | | | | **Mean Scores of COs** |
| | **PO1** | **PO2** | **PO3** | **PO4** | **PO5** | **PSO1** | **PSO2** | **PSO3** | **PSO4** | **PSO5** | |
| **CO-1** | 3 | 3 | 3 | 2 | 1 | 3 | 3 | 2 | 1 | 3 | 2.4 |
| **CO-2** | 2 | 3 | 2 | 2 | 1 | 3 | 3 | 2 | 2 | 3 | 2.3 |
| **CO-3** | 1 | 2 | 3 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2.0 |
| **CO-4** | 2 | 2 | 2 | 2 | 1 | 2 | 3 | 3 | 2 | 2 | 2.1 |
| **CO-5** | 1 | 2 | 2 | 3 | 2 | 2 | 2 | 3 | 2 | 3 | 2.2 |
| | | | | | | | | | **Mean Overall Score** | | 2.2 |
| | | | | | | | | | | | **High** |

| Semester | Course Code | Title of the Course | Hours | Credits |
|----------|-------------|---------------------|-------|---------|
| 5 | 25UCC53ES02B | **Discipline Specific Elective - 2:** Applications of Internet of Things | 4 | 3 |

| Course Objectives |
|-------------------|
| To understand the fundamentals of IoT |
| To explore IoT data acquisition |
| To analyze IoT applications across domains such as healthcare |
| To examine IoT security challenges |
| To develop IoT-based solutions using prototyping tools and explore emerging trends like AI |

**UNIT I: Introduction to IoT** (12 Hours)

Overview of IoT: Definition, Scope, and Importance-Components of IoT: Sensors, Actuators, Communication Protocols, Cloud Computing-IoT Architecture: Perception Layer, Network Layer, Application Layer-IoT Communication Technologies: RFID, NFC, Zigbee, Bluetooth, LoRaWAN, 5G-IoT Ecosystem and Applications in Various Domains

**UNIT II: IoT Data Acquisition and Processing** (12 Hours)

Sensors and Data Collection-IoT Data Processing and Storage-Edge Computing vs. Cloud Computing in IoT-IoT Middleware and Platforms (AWS IoT, Google Cloud IoT, Microsoft Azure IoT)-Data Analytics in IoT: Predictive Maintenance and Real-Time Monitoring

**UNIT III: IoT Applications in Various Domains** (12 Hours)

IoT in Smart Homes: Automation, Security, Energy Management-IoT in Healthcare: Wearable Devices, Remote Patient Monitoring, Smart Hospitals-IoT in Agriculture: Precision Farming, Smart Irrigation, Livestock Monitoring-IoT in Smart Cities: Traffic Management, Waste Management, Environmental Monitoring-IoT in Retail and Supply Chain Management

**UNIT IV: IoT Security and Privacy** (12 Hours)

IoT Security Challenges and Threats-Authentication and Access Control in IoT-Encryption and Data Protection in IoT-Secure Communication Protocols for IoT-Case Studies on IoT Security Breaches and Prevention Strategies

**UNIT V: IoT Project Development and Future Trends** (12 Hours)

IoT System Development Life Cycle-IoT Prototyping Tools: Raspberry Pi, Arduino-IoT Protocols: MQTT, CoAP, HTTP-Future Trends in IoT: AI and IoT, Blockchain for IoT, Digital Twins-Case Studies on Successful IoT Implementations.

| Teaching Methodology | PPT, Video |
|----------------------|------------|
| Assessment Methods | Slip Test, MCQ, Assignment |

**Books for Study:**
1. Raj Kamal, "Internet of Things: Architecture and Design Principles", II Edition, 2022, McGraw Hill, ISBN 10:9390727383, ISBN 13:978-9390727384,
2. ArshdeepBahga& Vijay Madisetti, "Internet of Things: A Hands-on Approach", Universities Press.http://www.internet-of-things-book.com

**Books for Reference:**
1. Adrian McEwen & Hakim Cassimally, "Designing the Internet of Things", Wiley.
2. Pethuru Raj &Anupama C. Raman, "The Internet of Things: Enabling Technologies, Platforms, and Use Cases", CRC Press.
3. CunoPfister, "Getting Started with the Internet of Things", O'Reilly Media.

**Websites and E-learning sources:**
1. https://www.rfpage.com/applications-of-internet-of-things-iot/
2. https://www.geeksforgeeks.org/blogs/top-applications-of-iot-in-the-world/

3. chrome-extension://efaidnbmnnnibpcajpcglclefindmkaj/https://mrcet.com/downloads/digital_notes/EEE/IoT%20&%20Applications%20Digital%20Notes.pdf
4. https://www.telit.com/resources/whitepapers/secure-data-acquisition-communication-and-processing-for-your-iot-solutions/
5. https://www.scribd.com/document/806277273/Data-Acquisition-Integration
6. https://www.telit.com/resources/whitepapers/secure-data-acquisition-communication-and-processing-for-your-iot-solutions/

| CO. No | Course Outcome | Cognitive Level (K- level) |
|---|---|---|
| CO1 | Ability to understand IoT concepts, architecture, and communication technologies. | K1 |
| CO2 | Ability to collect, process, and analyze IoT data using cloud and edge computing. | K2 |
| CO3 | Ability to apply IoT solutions in various domains like healthcare, agriculture, and smart cities. | K3 |
| CO4 | Ability to assess and implement security measures to protect IoT systems and data. | K4 |
| CO5 | Ability to design and develop IoT-based projects using prototyping tools and emerging technologies. | K5 |

| Relationship Matrix | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Semester | Course Code | | Title of the Course | | | | | | Hours | Credits |
| 5 | 25UCC53ES02B | | Discipline Specific Elective - 2: Applications of Internet of Things | | | | | | 4 | 3 |
| Course Outcomes↓ | Programme Outcomes (PO) | | | | | Programme Specific Outcomes (PSO) | | | | Mean Scores of COs |
| | PO1 | PO2 | PO3 | PO4 | PO5 | PSO1 | PSO2 | PSO3 | PSO4 | PSO5 | |

| Course Outcomes↓ | PO1 | PO2 | PO3 | PO4 | PO5 | PSO1 | PSO2 | PSO3 | PSO4 | PSO5 | Mean Scores of COs |
|---|---|---|---|---|---|---|---|---|---|---|---|
| CO-1 | 3 | 3 | 2 | 2 | 1 | 3 | 2 | 3 | 1 | 1 | 2.1 |
| CO-2 | 3 | 1 | 3 | 1 | 1 | 3 | 2 | 3 | 1 | 2 | 2 |
| CO-3 | 3 | 3 | 3 | 2 | 1 | 3 | 1 | 3 | 1 | 3 | 2.3 |
| CO-4 | 3 | 1 | 3 | 3 | 2 | 3 | 2 | 3 | 1 | 2 | 2.3 |
| CO-5 | 3 | 3 | 3 | 1 | 2 | 3 | 2 | 3 | 1 | 2 | 2.3 |
| Mean Overall Score | | | | | | | | | | | 2.2 (High) |

| Semester | Course Code | Title of the Course | Hours | Credits |
|---|---|---|---|---|
| 5 | 25UCC54OE01A | **Open Elective – 1 (WS):** Innovation Management | 4 | 2 |

| Course Objectives |
|---|
| To understand the concepts and importance of innovation in business. |
| To explore the process of innovation, from idea generation to implementation. |
| To learn the tools and techniques for managing innovation. |
| To examine the role of creativity and technology in driving innovation. |
| To analyze successful innovation strategies and their impact on business growth. |

## UNIT I: Introduction to Innovation (12 Hours)

Definition of Innovation and its Importance - Types of Innovation: Product, Process, and Organizational Innovation - Innovation vs. Invention - Innovation in the Context of Competitive Advantage - Challenges and Barriers to Innovation.

## UNIT II: The Innovation Process (12 Hours)

Stages of the Innovation Process: Idea Generation, Development, Commercialization - The Role of Research and Development (R&D) - Innovation in Product Development and Service Design - Open Innovation and Crowdsourcing - Collaboration with External Stakeholders for Innovation.

## UNIT III: Innovation Strategies (12 Hours)

Corporate Innovation Strategies: Incremental vs. Radical Innovation - Innovation in Business Models - Technology and Innovation Management - Case Studies on Successful Innovation Strategies (e.g., Apple, Tesla, Google) - Managing Risk and Uncertainty in Innovation.

## UNIT IV: Creativity and Technology in Innovation (12 Hours)

Role of Creativity in the Innovation Process - Techniques for Enhancing Creativity (Brainstorming, SCAMPER, Design Thinking) - Technological Tools for Managing Innovation - The Impact of Digital Transformation on Innovation - The Role of Artificial Intelligence in Innovation.

## UNIT V: Innovation in Practice and the Future of Innovation (12 Hours)

Innovation Management in Small and Large Enterprises - Innovation in Emerging Markets - Social and Sustainable Innovation - The Future of Innovation - Innovation as a Key Driver of Organizational Culture

| | |
|---|---|
| **Teaching Methodology** | Guest Lectures by Industry Experts, Presentations, Use of Multimedia and Online Learning Tools. |
| **Assessment method** | Case Studies, Group Discussions, Project Work |

**Books for Study:**
1. Tidd, J., Bessant, J., & Pavitt, K. (2009). Managing Innovation: Integrating Technological, Market and Organizational Change (5th Ed.). John Wiley & Sons.
2. Schilling, M.A. (2017). Strategic Management of Technological Innovation (5th Ed.). McGraw-Hill Education.
3. Barrett, P. (2014). Innovation and Entrepreneurship: A Competency Framework. Palgrave Macmillan.

**Books for Reference:**
1. Trott, P. (2017). *Innovation Management and New Product Development* (6th Ed.). Pearson Education.
2. Dodgson, M., Gann, D., & Salter, A. (2008). *The Innovation Handbook: Managing Innovation in the 21st Century*. Oxford University Press.

**Websites and eLearning Sources:**
1. MIT Sloan School of Management – Innovation @ Work https://executive.mit.edu/
2. Harvard Business Review – Innovationhttps://hbr.org/topic/innovation
3. Stanford Graduate School of Business - Innovation and Entrepreneurshiphttps://www.gsb.stanford.edu/

4. Coursera-InnovationManagement Courseshttps://www.coursera.org/courses?query=innovation%20management
5. edX - Innovation & Entrepreneurshiphttps://www.edx.org/learn/innovation
6. Innovation Management - IM Channelhttps://www.innovationmanagement.se/
7. The Innovation and Entrepreneurship Network (IEN)https://www.theiennetwork.com/
8. Khan Academy - Entrepreneurship and Innovationhttps://www.khanacademy.org/

| Course Outcomes | | |
|---|---|---|
| **CO No.** | **CO-Statements**<br>On successful completion of this course, the students will be able to | **Cognitive Levels (K-Level)** |
| **CO1** | Understand the importance and types of innovation. | **K1** |
| **CO2** | Apply the innovation process in real-world scenarios. | **K2** |
| **CO3** | Analyze different innovation strategies and their impact. | **K3** |
| **CO4** | Evaluate the role of creativity and technology in innovation. | **K4** |
| **CO5** | Create innovation strategies for businesses in various industries. | **K5** |

| Relationship Matrix | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Semester** | **Course Code** | **Title of the Course** | | | | | | | | **Hours/Week** | **Credits** |
| **5** | **25UCC54OE01A** | **Open Elective - 1 (WS):** Innovation Management | | | | | | | | **4** | **2** |
| **Course Outcomes** | **Programme Outcomes (POs)** | | | | | **Programme Specific Outcomes (PSOs)** | | | | | **Mean Score of COs** |
| | **PO1** | **PO2** | **PO3** | **PO4** | **PO5** | **PSO1** | **PSO2** | **PSO3** | **PSO4** | **PSO5** | |
| CO1 | 3 | 2 | 3 | 2 | 2 | 3 | 2 | 2 | 3 | 2 | 2.4 |
| CO2 | 2 | 3 | 2 | 3 | 2 | 3 | 2 | 3 | 2 | 1 | 2.3 |
| CO3 | 2 | 2 | 3 | 2 | 1 | 3 | 3 | 2 | 3 | 1 | 2.2 |
| CO4 | 3 | 3 | 2 | 3 | 2 | 3 | 3 | 2 | 3 | 2 | 2.6 |
| CO5 | 2 | 2 | 3 | 2 | 1 | 3 | 2 | 3 | 2 | 1 | 2.1 |
| | | | | | | | | | | **Mean Overall Score** | **2.4 (High)** |

| Semester | Course Code | Title of the Course | Hours/Week | Credits |
|----------|-------------|---------------------|------------|---------|
| 5 | 25UCC54OE01B | **Open Elective – 1 (WS):** AI in Human Resource Management | 4 | 2 |

| Course Objectives |
|---|
| To understand the fundamentals of Artificial Intlligence (AI) and its applicaions in Humna Resource Management (HRM) |
| To explore AI-driven tools and techniques for talent acquisition, employee engagement, and performance management. |
| To examine ethical, legal, and privacy issures in AI-based HR prctiece. |
| To develop critical thinking skills for applying AI solutions to HR challenges. |
| To analyze the future trends of AI in HRM for sustainable workforce management. |

## UNIT I: Introduction to AI in HRM                    (12 Hours)

Definition and Scope of AI in HR **-** Evolution of AI Applications in HRM **-** Benefits and Challenges of AI in HR **-**Role of AI in Talent Acquisition **-**Ethical and Legal Aspects of AI in HR

## UNIT II: AI in Recruitment and Selection            (12 Hours)

AI Tools for Candidate Screening **-** Automation in Interview Processes **-**Bias Reduction Techniques in AI Systems **-**Role of Chatbots in Recruitment **-**Case Studies of AI Recruitment Success Stories

## UNIT III: AI in Employee Engagement and Retention   (12 Hours)

AI for Personalized Employee Experience **-** Predictive Analytics for Retention Strategies **-** Sentiment Analysis in Employee Feedback **-**AI-Powered Learning and Development Programs **-**Building Inclusive Workplaces with AI

## UNIT IV: Performance Management and HR Analytics    (12 Hours)

AI in Performance Appraisal Systems **-** Predictive Performance Analysis **-** Data-Driven Decision Making in HR **-** AI for Workforce Planning and Development **-** Managing Employee Relations through AI Insights

## UNIT V: Future Trends and Strategic AI in HRM       (12 Hours)

AI for Strategic Workforce Management **-** Role of AI in Leadership Development- Future Skills for AI-Driven HR Professional **-**Emerging AI Technologies in HR **-**Global Perspectives on AI in HRM

| | |
|---|---|
| **Teaching Methodology** | Interactive lectures using multimedia presentations, Case study discussions focusing on AI applications in HR., Hands-on demonstrations of AI tools used in HR practices, Group projects on AI-driven HR solutions, Guest lectures by industry experts on AI and HRM. |
| **Assessment Methods** | Seminar, Snap Test, MCQ |

**Books for Study:**
1. Bessen, J. E. (2022). *AI and the Future of Work*. MIT Press.
2. Dessler, G. (2020). *Human Resource Management* (16th ed.). Pearson Education.
3. Stone, D. L., & Deadrick, D. L. (2015). *Emerging Issues in Theory and Research on Electronic Human Resource Management (eHRM)*. *Human Resource Management Review*, 25(3), 219-231.

**Books for Reference:**
1. Marr, B. (2023). *Artificial Intelligence in Practice: How 50 Successful Companies Used AI and Machine Learning to Solve Problems*. Wiley.
2. Minbaeva, D. B. (2018). *HRM Practices and Knowledge Transfer in MNCs: The Role of Individual HRM Practices in the Context of Emerging Markets*. *Journal of International Business Studies*, 49(9), 1239-1260.

**Websites and eLearning Sources:**
1. Harvard Business Review. (n.d.). *AI in HR: The Future of Work*. https://hbr.org/
2. Society for Human Resource Management (SHRM). (n.d.). *AI and HR*. https://www.shrm.org/
3. World Economic Forum. (n.d.). *The Role of AI in Human Resources*. https://www.weforum.org/
4. Coursera – *AI in People Management* (https://www.coursera.org/)

5. edX – *Artificial Intelligence and Business Strategy* (https://www.edx.org/)
6. LinkedIn Learning – *AI in HR: Strategies for Success* (https://www.linkedin.com/learning/)

| Course outcomes | | |
|---|---|---|
| **CO No.** | **CO-Statements** | **Cognitive Levels (K-Level)** |
| | On successful completion of this course, the students will be able to | |
| **CO1** | Recall key AI technologies and their functions in HRM. | **K1** |
| **CO2** | Explain how AI influences different HR functions. | **K2** |
| **CO3** | Apply AI tools for recruitment, training, and performance evaluation. | **K3** |
| **CO4** | Analyze data-driven HR decisions enabled by AI. | **K4** |
| **CO5** | Evaluate the effectiveness and ethical considerations of AI applications in HR. | **K5** |

| Relationship Matrix | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| **Semester** | **Course Code** | | **Title of the Course** | | | | **Hours/Week** | | **Credits** | |
| **5** | **25UCC54OE01B** | | **Open Elective – 1 (WS):** AI in Human Resource Management | | | | **4** | | **2** | |
| **Course Outcomes** | **Programme Outcomes (POs)** | | | | | **Programme Specific Outcomes (PSOs)** | | | | **Mean Score of COs** |
| | **PO1** | **PO2** | **PO3** | **PO4** | **PO5** | **PSO1** | **PSO2** | **PSO3** | **PSO4** | **PSO5** | |
| **CO1** | 3 | 2 | 3 | 2 | 2 | 3 | 2 | 2 | 3 | 2 | **2.4** |
| **CO2** | 2 | 3 | 2 | 3 | 2 | 3 | 2 | 3 | 2 | 1 | **2.3** |
| **CO3** | 2 | 2 | 3 | 2 | 1 | 3 | 3 | 2 | 3 | 1 | **2.2** |
| **CO4** | 3 | 3 | 2 | 3 | 2 | 3 | 3 | 2 | 3 | 2 | **2.6** |
| **CO5** | 2 | 2 | 3 | 2 | 1 | 3 | 2 | 3 | 2 | 1 | **2.1** |
| | | | | | | | | | **Mean Overall Score** | | **2.4 (High)** |

| Semester | Course Code | Title of the Course | Hours | Credits |
|:---:|:---:|:---:|:---:|:---:|
| 5 | 25UCC54SL04 | **Certificate Course:** Business Analytics | - | 2 |

| Course Objectives |
|---|
| To Know the concept of Business analytics and their terminologies |
| To apply group dynamics and leadership qualities in an organization... |
| To Analyze the best management practices across the world |
| To Evaluate the emerging trends in corporate structure, strategy and culture |
| To Create perception and motivation for employees in an organization. |

**UNIT I: Introduction To Business Analytics**

Business Analytics - Terminologies, Process, Importance, Relationship with Organizational Decision Making, Analytics in Decision Making, BA for Competitive Advantage.

**UNIT II: Managing Resources For Business Analytics**

Managing BA Personnel, Data and Technology. Organizational Structures aligning business analytics. Managing Information policy, data quality and change in business analytics.

**UNIT III: Descriptive Analytics**

Introduction to Descriptive analytics – Visualizing, and Exploring Data - Descriptive Statistics - Sampling and Estimation - Probability Distribution for Descriptive Analytics - Analysis of Descriptive analytics.

**UNIT IV: Predictive Analytics**

Introduction to Predictive analytics - Logic and Data Driven Models - Predictive Analysis Modeling and procedure - Data Mining for Predictive analytics. Analysis of Predictive analytics

*Ayurveda and Predictive Health*

*: Ayurveda, the traditional Indian system of medicine, emphasizes holistic health. Using predictive analytics to study Ayurvedic texts and practices could help forecast health outcomes based on lifestyle, diet, and environment. Leveraging historical health data along with Ayurvedic insights could improve healthcare predictions.*

**UNIT V: Prescriptive Analytics**

Introduction to Prescriptive analytics - Prescriptive Modelling – Non Linear Optimization - Demonstrating Business Performance Improvement.

| Teaching Methodology | PPT, Demonstration |
|---|---|
| Assessment Methods | Snap Test, MCQ |

**Books for Study:**
1. Marc J. Schniederjans, Dara G. Schniederjans and Christopher M. Starkey, (2022) "Business Analytics Principles, Concepts, and Applications - What, Why, and How", Pearson Ed,

**Books for Reference:**
1. Christian Albright S and Wayne L. Winston, (2022) "Business Analytics - Data Analysis and Decision Making", Fifth edition, Cengage Learning
2. James R. Evans, (2021) "Business Analytics - Methods, Models and Decisions", Pearson Ed.ns, "Business Analytics - Methods, Models and Decisions", Pearson Ed

**Websites and eLearning Sources:**
1) https://business.wfu.edu/masters-in-business-analytics/articles/what-is-analytics/#:~:text=Business%20analytics%20is%20the%20process,to%20create%20insights%20from%20data.
2) https://www.techtarget.com/searchbusinessanalytics/definition/business-analytics-BA
3) https://www.quora.com/What-is-business-analytics-explained-in-detail
4) https://www.youtube.com/watch?v=iEEe_w9Hois

| Course Outcomes | | |
|---|---|---|
| **CO. No.** | **CO- Statement**<br>On completion of this course, the students will be able to | **Cognitive Level (K- level)** |
| CO-1 | Gain knowledge on the concept of Business analytics. | K1 |
| CO-2 | Understand the different managing resources of Business analytics | K2 |
| CO-3 | Apply the various forms of descriptive analytics. | K3 |
| CO-4 | Analyze the predictive analytics models in business analytics. | K4 |
| CO-5 | Evaluate in demonstrating business performance improvement. | K5 |

| Relationship matrix | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Semester** | **Course Code** | | **Title of the Course** | | | | | | | **Hours** | **Credits** |
| 5 | 25UCC54SL04 | | **Certificate Course:** Business Analytics | | | | | | | - | 2 |
| **Course Outcomes↓** | **Programme Outcomes (PO)** | | | | | **Programme Specific Outcomes (PSO)** | | | | | **Mean Scores of Cos** |
| | **PO1** | **PO2** | **PO3** | **PO4** | **PO5** | **PSO1** | **PSO2** | **PSO3** | **PSO4** | **PSO5** | |
| CO-1 | 3 | 3 | 3 | 3 | 1 | 3 | 3 | 3 | 1 | 3 | 2.6 |
| CO-2 | 3 | 2 | 3 | 3 | 1 | 3 | 3 | 3 | 1 | 2 | 2.4 |
| CO-3 | 3 | 3 | 3 | 3 | 1 | 3 | 3 | 3 | 1 | 2 | 2.5 |
| CO-4 | 3 | 2 | 3 | 1 | 1 | 3 | 3 | 3 | 1 | 3 | 2.3 |
| CO-5 | 3 | 3 | 2 | 1 | 1 | 3 | 3 | 3 | 1 | 3 | 2.3 |
| **Mean Overall Score** | | | | | | | | | | | **2.42 (High)** |

| Semester | Course Code | Title of the Course | Hours | Credits |
|---|---|---|---|---|
| 6 | 25UCC63CC12 | **Core Course – 12:** Income Tax Law and Practice | 6 | 4 |

| Course Objectives |
|---|
| To Enable the students to know the basic concepts of income tax. |
| To Understand the calculation procedure of income from salary and its deductions. |
| To Determine the House Property Income |
| To Apply the rules of direct taxes for calculation of Income tax of an Individual and filing of tax returns. |
| To Understand and analyze the Gain on business or profession and capital gains in real life situation |

**Unit-I: Introduction to Income tax and Residential status       (18 Hours)**

Income tax- Ancient Indian Taxation System:- **Kautilya's Arthashastra**: , Manusmriti & Dharmashastra , Mughal & British Taxation Definitions - Previous Year, Assessment Year, Persons, Assessee, sources of Income, Gross Total Income, Capital and Revenue Receipts and Expenditure, Residential status and Incidence of Tax-: Vedic and Ancient Indian Concept of Residency -  Incomes exempt under sec.10.

**Unit-II: Computation of Income from Salary                (18 Hours)**

Computation of Income from Salary: Meaning and forms of salary- Taxability of Allowances, Valuation and Taxability of perquisites, Deductions from salary income.

**Unit-III: Computation of Income from House Property            (18 Hours)**

Types of House property - Taxability of income from let out property and self-occupied property, Treatment of unrealized rent and Arrears of Rent. Deduction u/s24

**Unit-IV: Computation of Income from Business or Profession         (18 Hours)**

Sources - Deductions – allowable and disallowable items under the Act - methods of valuation of closing stock.

**Unit-V: Computation of Income from Capital Gains and Other Sources       (18 Hours)**

Capital Gains exempt from Income Tax, Meaning of transfer, Cost of Acquisitions and Cost of Improvement - Long Term and Short Term Capital gain – Income from other sources - Grossing up of interest - Assessment of Individuals: Meaning- Total Income of an Individual - Tax Rates- Computation of Total Income and Tax Liability of Individual

Theory 20% Problems 80%

**Books for Study:**
1. Dr Vinod K Singhania, Students Guide to Income Tax, Taxmann Publications Pvt ltd., New Delhi (Latest Edition)

**Books for Reference:**
1. N. Hariharan, Income tax law and practice, Vijay Nicole, Chennai (Latest)
2. Bagavathi Prasad, Income Tax Law and Practice, WishwaPrakashan, New Delhi. (Latest)
3. Reddy and Reddy, Income Tax Law and Practice, Margam Publication, Chennai. (latest)

**Websites and eLearning Sources:**
1. https://www.icai.org/post/19154
2. https://onlinecourses.swayam2.ac.in/ini25_cm01/preview
3. https://www.icai.org/post/19154

| Course Outcomes | | |
|---|---|---|
| **CO.No.** | **CO- Statement**<br>On completion of this course, the students will be able to | **Cognitive Level (K- level)** |
| **CO-1** | Enable the knowledge on basic concepts of income tax. | **K1** |
| **CO-2** | Understand the calculation procedures of income tax | **K2** |
| **CO-3** | Apply the rules of direct taxes for calculation of Income tax of an Individual and filing of tax returns. | **K3** |
| **CO-4** | Analyze various sources of income of an individual | **K4** |
| **CO-5** | Evaluate the tax liability of assesses | **K5** |

| Relationship matrix | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Semester** | **Course Code** | | **Title of the Course** | | | | | | | **Hours** | **Credits** |
| **6** | **25UCC63CC12** | | **Core Course – 12:** Income Tax Law and Practice | | | | | | | **6** | **4** |
| **Course Outcomes↓** | **Programme Outcomes (PO)** | | | | | **Programme Specific Outcomes (PSO)** | | | | | **Mean Scores of Cos** |
| | **PO1** | **PO2** | **PO3** | **PO4** | **PO5** | **PSO1** | **PSO2** | **PSO3** | **PSO4** | **PSO5** | |
| **CO-1** | 3 | 3 | 3 | 3 | 1 | 3 | 3 | 3 | 1 | 3 | 2.6 |
| **CO-2** | 3 | 2 | 3 | 3 | 1 | 3 | 3 | 3 | 1 | 2 | 2.4 |
| **CO-3** | 3 | 3 | 3 | 3 | 1 | 3 | 3 | 3 | 1 | 2 | 2.5 |
| **CO-4** | 3 | 2 | 3 | 1 | 1 | 3 | 3 | 3 | 1 | 3 | 2.3 |
| **CO-5** | 3 | 3 | 2 | 1 | 1 | 3 | 3 | 3 | 1 | 3 | 2.3 |
| | | | | | | | | | | **Mean Overall Score** | **2.42 (High)** |

| Semester | Course Code | Title of the Course | Hours/Week | Credits |
|---|---|---|---|---|
| 6 | 25UCC63CC13 | **Core Course – 13:** Professional Accounting with Tally Prime | 3 | 2 |

| Course Objectives |
|---|
| To provide foundational knowledge of Accounting principles and the Double Entry System |
| To develop proficiency in operating Tally Prime for business accounting |
| To equip students with the ability to manage Inventory and Payroll systems in Tally |
| To enable students to apply Cost Centre, Budgeting, and Scenario Management techniques |
| To familiarize students with Statutory Compliance using Tally Prime |

**UNIT I: Introduction to Accounting & Tally Prime** **(9 Hours)**

Basics of Accounting & Double Entry System - Features and Installation of Tally Prime - Creating, Altering, and Deleting Company Data - Setting up Accounting Masters (Ledgers, Groups)

**UNIT II: Accounting Vouchers** **(9 Hours)**

Group – Ledger – Cost Category – Allocate Revenue Item – Allocate Non Revenue items – Cost Centre – Cost Centre Class – Currency – Budget – Scenario – Voucher type.

**UNIT III: Inventory Vouchers** **(9 Hours)**

Stock group – Stock Category – Stock item – unit – type – simple – compound – symbol – formal Name – unit quantity code (UQC)- Number of decimal places.

**UNIT IV: Payroll Vouchers** **(9 Hours)**

Employee group – Employee - Units (works) – Attendance – production type- Attendance/ leave with pay – leave without pay – production – user – defined calendar type – pay head – deduction from employee – earnings for employees – employee's statutory deductions – employer's statutory contributions – gratuity – employers statutory contributions – gratuity – loans and advances – reimbursements to employees – calculation type – As computed value – as user defined value – flat rate – on attendance – on production – define salary – payroll voucher type.

**UNIT V: Statutory Vouchers** **(9 Hours)**

TDS nature of payments – TCS Nature of Goods – Tax units – Statutory Details – GST Detail – TDS Details – TCS Details – VAT Registration Details – Excise – Registration Details – Pan/ CIN Details

| | |
|---|---|
| **Teaching Methodology** | Lectures & Classroom Discussions: Explanation of concepts with real - world examples – Hands - on Training - Practical exercises and demonstrations using Tally Prime 5- Case Studies & Project Work: Real - life accounting scenarios - Workshops & Guest Lectures: Insights from industry experts - Assignments & - |
| **Assessment Methods** | Regular tests and assignments to evaluate understanding |

**Books for Study:**
1. Tally Solutions. (Year). Tally Prime – Official Guide. Publisher.
2. Behera, S. R. (Year). Financial Accounting with Tally Prime. Publisher.
**3.** Nadhani, A. K. (Year). Mastering Tally Prime. Publisher.

**Books for Reference:**
1. Agrawal, R. K. (Year). Practical Approach to Tally Prime. Publisher.
2. Swayam Publication. (Year). Tally Prime – A Complete Guide. Swayam Publication.
3. Singh, V. P. (Year). Advanced Tally ERP 9 & Tally Prime. Publisher.

**Websites and eLearning Sources:**
1. Tally Solutions Official Website
2. NPTEL - Accounting Courses
3. Coursera - Financial Accounting
4. Udemy - Tally Prime Courses

5. YouTube - Tally Prime Tutorials

| | Course outcomes | |
|---|---|---|
| | **CO-Statements** | **Cognitive Levels (K-Level)** |
| **CO No.** | On successful completion of this course, the students will be able to | |
| **CO1** | Recall and explain the fundamental concepts of accounting and the double-entry system, along with the basic components and features of Tally Prime. | **K1** |
| **CO2** | Understand and describe the procedures for creating, altering, and deleting company data, accounting masters, and voucher types in Tally Prime. | **K2** |
| **CO3** | Apply Tally Prime tools to record accounting transactions, prepare inventory records, generate payroll statements, and process business transactions using vouchers. | **K3** |
| **CO4** | Analyse business data using cost categories, cost centres, budgets, currency features, and scenario management to support financial decision-making. | **K4** |
| **CO5** | Evaluate and process statutory compliance requirements such as GST, TDS, TCS, VAT, and employee statutory contributions using Tally Prime's statutory features. | **K5** |

| Relationship Matrix | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Semester** | **Course Code** | | **Title of the Course** | | | | | | | **Hours** | **Credits** |
| **6** | **25UCC63CC13** | | **Core Course – 13:** Professional Accounting with Tally Prime | | | | | | | **3** | **2** |
| **Course Outcomes↓** | **Programme Outcomes (PO)** | | | | | **Programme Specific Outcomes (PSO)** | | | | | **Mean Scores of Cos** |
| | **PO1** | **PO2** | **PO3** | **PO4** | **PO5** | **PSO1** | **PSO2** | **PSO3** | **PSO4** | **PSO5** | |
| **CO-1** | 3 | 2 | 3 | 2 | 2 | 3 | 2 | 2 | 3 | 2 | **2.4** |
| **CO-2** | 2 | 3 | 2 | 3 | 2 | 3 | 2 | 3 | 2 | 1 | **2.3** |
| **CO-3** | 2 | 2 | 3 | 2 | 1 | 3 | 3 | 2 | 3 | 1 | **2.2** |
| **CO-4** | 3 | 3 | 2 | 3 | 2 | 3 | 3 | 2 | 3 | 2 | **2.6** |
| **CO-5** | 2 | 2 | 3 | 2 | 1 | 3 | 2 | 3 | 2 | 1 | **2.1** |
| | | | | | | | | | | **Mean Overall Score** | **2.4 (High)** |

| Semester | Course Code | Title of the Course | Hours/Week | Credits |
|:---:|:---:|:---:|:---:|:---:|
| **6** | **25UCC63CP06** | **Core Practical – 6:** Professional Accounting with Tally Prime | **4** | **2** |

**Practical Exercises on Tally Prime**

1. **Exercise 1: Company Creation & Configuration**
   Install Tally Prime and create a new company named **XYZ Pvt. Ltd.**
   Set up financial year details and security controls.
   Alter company details and delete the company.

2. **Exercise 2: Creating Accounting Masters**
   Create Ledger accounts for:
     a. Bank Account
     b. Cash Account
     c. Sales Account
     d. Purchase Account
     e. Expenses (Rent, Salaries, Electricity)
   Create groups and allocate ledgers under correct groups.

3. **Exercise 3: Cost Category & Cost Centers**
   Create two Cost Categories: **Marketing & Production**
   Create Cost Centers under each category.
   Allocate expenses to cost centers and generate cost reports.

4. **Exercise 4: Inventory Masters & Stock Management**
   Create Stock Groups for **Electronics & Furniture**.
   Define Stock Items like **Laptop, Printer, Office Chair, Desk**.
   Assign Units of Measurement (Simple & Compound).
   Allocate stock items to different warehouses.

5. **Exercise 5: Budgeting & Scenario Management**
   Create a budget for **Marketing Expenses** for a quarter.
   Track expenses and generate budget variance reports.

6. **Exercise 6: Voucher Entry**
   Record transactions using different voucher types:
     a. Payment Voucher
     b. Receipt Voucher
     c. Contra Voucher
     d. Sales & Purchase Voucher
   Modify and delete incorrect voucher entries.

7. **Exercise 7: Payroll Processing**
   Create Employee Groups and Employees.
   Define Payroll Components like Basic Salary, HRA, PF, etc.
   Process payroll and generate payslips.

8. **Exercise 8: Statutory Compliance – GST & TDS**
   Enable GST in Tally and set GST rates for products.
   Record GST transactions for Sales & Purchases.
   Enable TDS and define TDS Nature of Payments.
   Process TDS deductions for vendor payments.

9. **Exercise 9: Bank Reconciliation**
     a. Import bank statements into Tally.
   Reconcile transactions and identify mismatches.

10. **Exercise 10: Generating Financial Reports**
    Generate &analyze reports like:
      a. Profit & Loss Account
      b. Balance Sheet
      c. Trial Balance
      d. GST Summary Report
    Export reports in Excel/PDF format.

| Teaching Methodology | Lecture & Demonstration (Instructor-led Training) - Hands-on Practical Sessions - Case Studies & Problem-Solving Approach - Group Activities & Collaborative Learning - Assessments & Feedback |
|---|---|
| Assessment Methods | Regular tests and assignments to evaluate understanding |

| | Course outcomes | |
|---|---|---|
| **CO No.** | **CO-Statements**<br>On successful completion of this course, the students will be able to | **Cognitive Levels (K-Level)** |
| CO1 | Understand the basic principles of accounting and the double-entry system. | K1 |
| CO2 | Develop company data, accounting masters, and inventory masters in Tally Prime. | K2 |
| CO3 | Record financial transactions using different voucher types and perform cost center allocation. | K3 |
| CO4 | Implement payroll processing, including employee salary structure and statutory deductions. | K4 |
| CO5 | Configure taxation (GST & TDS) and perform statutory compliance in Tally. | K5 |

| Relationship Matrix | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| **Semester** | **Course Code** | | **Title of the Course** | | | | | **Hours/Week** | | **Credits** |
| 6 | 25UCC63CP06 | | Core Practical – 6: Professional Accounting with Tally Prime | | | | | 4 | | 2 |
| **Course Outcomes** | **Programme Outcomes (POs)** | | | | | **Programme Specific Outcomes (PSOs)** | | | | **Mean Score of COs** |
| | PO1 | PO2 | PO3 | PO4 | PO5 | PSO1 | PSO2 | PSO3 | PSO4 | PSO5 | |

| Course Outcomes | PO1 | PO2 | PO3 | PO4 | PO5 | PSO1 | PSO2 | PSO3 | PSO4 | PSO5 | Mean Score of COs |
|---|---|---|---|---|---|---|---|---|---|---|---|
| CO1 | 3 | 2 | 3 | 2 | 2 | 3 | 2 | 2 | 3 | 2 | 2.4 |
| CO2 | 2 | 3 | 2 | 3 | 2 | 3 | 2 | 3 | 2 | 1 | 2.3 |
| CO3 | 2 | 2 | 3 | 2 | 1 | 3 | 3 | 2 | 3 | 1 | 2.2 |
| CO4 | 3 | 3 | 2 | 3 | 2 | 3 | 3 | 2 | 3 | 2 | 2.6 |
| CO5 | 2 | 2 | 3 | 2 | 1 | 3 | 2 | 3 | 2 | 1 | 2.1 |
| | | | | | | | | | | **Mean Overall Score** | **2.4 (High)** |

| Semester | Course Code | Title of the Course | Hours | Credits |
|----------|-------------|---------------------|-------|---------|
| 6 | 25UCC63CC14 | **Core Course - 14:** Advanced Auditing | 5 | 3 |

| Course Objectives |
|---|
| To Gain knowledge on the concept and techniques of auditing. |
| To Understand the features of vouchers and their factors. |
| To Examine audit report regarding entity`s financial statement. |
| To Appraise investigation report and ascertain the ownership of a company |
| To Evaluate the integrity of production system and potential security. |

**UNIT I: Introduction** (15 Hours)

Concept, Features; Accountancy and Auditing, Scope of Auditing, – Independent Audit – Materiality in Auditing - Efficiency Audit –Propriety Audit - Techniques of Auditing - Stages – Standards of Auditing – perception before commencing of audit**.**

**UNIT II: Vouching and Verification** (15 Hours)

Concept – Significance – Important factors obtained from Vouchers – Features of Vouchers, Differences between checking and vouching – Vouching of Cash Transactions - vouching of trading transactions– vouching of impersonal ledger- Verification and Valuation of assets and liabilities.

**UNIT III: Company Audit** (15 Hours)

Appointment of auditor, powers, duties and liabilities – Divisible profits and dividend –Types of audit report- Duties of an auditor while conducting the audit- Organizing Audit work– commencement of new audit- Criminal liability- Indian Penal Code-Reliefs and Remedies.

**UNIT IV: Investigation** (15 Hours)

Objectives, Difference between audit and investigations – Process of investigations – Special audit of banking companies, Educational, Non-profit institutions and Insurance companies- Investigation report- Investigation to ascertain ownership of a company-Investigation under Income Tax Act- Duties of investigators.

**IKS Perspective***: The concept of* **Vinaya** *(humility) in Indian thought suggests that an investigation report should be presented with clarity, honesty, and responsibility. It should not just seek to reveal facts but also propose constructive solutions, rooted in justice and righteousness. The report should reflect the values of* **Satyagraha** *(adherence to truth), calling for integrity and transparency in addressing issues.*

**UNIT V: EDP Auditing** (15 Hours)

Concept – Need for Control - Effects of EDP Auditing – Foundations of EDP Auditing – steps in EDP Audit – Some major Audit Decisions – Legal influences of EDP Audit – Division of Auditing in EDP Environment – Online Computer Systems.

| Teaching Methodology | PPT, Chalk and Talk |
|---|---|
| Assessment Methods | Seminar, Snap Test, MCQ |

**Books for Study:**
1. Dr. T. R. Sharma, Dr. I. M. Sahai, *Auditing*, First Edition, Sahitya Bhawan Publications, India, 2024.

**Books for Reference:**
1. C.A. Ravi Kanth Miriyala and C.A. Sunitanjani Miriyala, *Auditing and Assurance*, First Edition, Commercial Law Publishers, India, 2020
2. Dr. Aruna Jha, *Auditing and Corporate governance*, First Edition, Taxmann Publications,2020.

**Websites and e Learning Sources:**
1. https://online.mason.wm.edu/blog/what-is-advanced-auditing
2. https://www.icai.org/post/19166
3. https://www.taxmann.com/post/blog/introduction-to-auditing
4. https://josephscollege.ac.in/lms/Uploads/pdf/material/Material_AuditingUnit1.pdf
5. https://josephscollege.ac.in/lms/Uploads/pdf/material/Material_AuditingUNITS345.pdf

6. https://www.jsscacs.edu.in/sites/default/files/Department%20Files/DOC-20240103-WA0013..pdf
7. https://www.ojp.gov/ncjrs/virtual-library/abstracts/edp-electronic-data-processing-auditing-why-how-what

| Course Outcomes | | |
|---|---|---|
| **CO No.** | **CO- Statements** <br> On successful completion of this course, the students will be able to | **Cognitive Level (K- level)** |
| **CO 1** | Relate to the scope, techniques and stages of auditing | **K1** |
| **CO 2** | Demonstrate the knowledge in understanding various cash transactions and trading transactions. | **K2** |
| **CO 3** | Explain the commencement of new audit | **K3** |
| **CO 4** | Compare the educational, non-profit institutions and insurance companies | **K4** |
| **CO 5** | Determine the division of auditing in EDP environment. | **K5** |

| Relationship Matrix | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Semester** | **Course Code** | | **Title of the Course** | | | | | | | **Hours** | **Credits** |
| **6** | **25UCC63CC14** | | **Core Course - 14:** Advanced Auditing | | | | | | | **5** | **3** |
| **Course Outcomes↓** | **Programme Outcomes (PO)** | | | | | **Programme Specific Outcomes (PSO)** | | | | | **Mean Scores of Cos** |
| | **PO-1** | **PO-2** | **PO-3** | **PO-4** | **PO-5** | **PSO-1** | **PSO-2** | **PSO-3** | **PSO-4** | **PSO-5** | |
| **CO-1** | 3 | 2 | 3 | 2 | 1 | 3 | 2 | 1 | 2 | 2 | 2.1 |
| **CO-2** | 3 | 2 | 2 | 2 | 2 | 2 | 3 | 2 | 2 | 1 | 2.1 |
| **CO-3** | 1 | 3 | 2 | 1 | 2 | 2 | 2 | 2 | 2 | 3 | 2.0 |
| **CO-4** | 1 | 3 | 2 | 2 | 1 | 1 | 3 | 3 | 2 | 3 | 2.1 |
| **CO-5** | 1 | 3 | 3 | 2 | 2 | 1 | 2 | 2 | 2 | 2 | 2.0 |
| | | | | | | | | | **Mean Overall Score** | | 2.06 |
| | | | | | | | | | | | **Medium** |

| Semester | Course Code | Title of the Course | Hours | Credits |
|---|---|---|---|---|
| 6 | 25UCC63ES03A | **Discipline Specific Elective - 3:** Investment Management and stock trading | 4 | 3 |

| Course Objectives |
|---|
| To understand the various investment concepts |
| To acquire knowledge on various tools and techniques of financial risk management |
| To able to analyze the industry, company and economy operation |
| To identify the variations of options, Futures and determine the functions of OTCE1, in various markets |
| To learn the procedures in stock trading |

**UNIT I: Introduction to Financial Markets** (12 Hours)

Investment – Meaning, Importance - Features - Process – Nature and Scope – Deposits – Insurance – Mutual Funds - Real Estates - Financial Markets – Industrial Securities – Stock Exchange – Over the Counter Exchange of India (OTCEI) –National Stock Exchange (NSE) – Share Market – Commodity Market.

**UNIT II:  Risk and Return Analysis** (12 Hours)

Risk and Return Analysis: risk - sources of financial risk: credit vs. Market, default risk, foreign exchange risk, interest rate risk, purchasing power risk - Types of risks – Credit Rating Information Services of India Limited (CRISIL) – Investment Information and Credit Rating Agency of India Limited (ICRA). Security Exchange Board of India (SEBI) guidelines.

**UNIT III: Approaches to Security And Technical Analysis** (12 Hours)

Approaches to Security And Technical Analysis: Fundamental analysis- Gross Domestic Product (GDP) – Inflation - Influence of the economy- Economy Vs Industry and Company- Industry analysis- Company analysis - Guidelines for Investment- Technical analysis - Basic tenets- Dow theory- Index - Major trends- Principles.

**UNIT IV: Derivatives, Options & Futures Trading** (12 Hours)

Derivatives, Options & Futures Trading: Types - Factors – Option value – valuation - Limitations – Characteristics – Futures – Distinctions: Forwards and Futures- Futures and Options.

**UNIT V: Stock Trading** (12 Hours)

Stock Trading: Importance – Trading account - Online Stock Trading – brokerage – Research Stocks – Deciding – Trade first stock – advanced – alternative – Opportunities – opening of DEMAT account. Initial Public Offering (IPO).

| Teaching Methodology | PPT, VIDEOS and CASE STUDIES |
|---|---|
| Assessment method | Assignment, snap test, and group discussion |

**Books for Study:**
1. Punithavathi Pandian, "Security Analysis and Portfolio Management", 2nd Edition, Vikas Publishing House, Delhi. 2012 (I to IV units)
2. Art of Stock Investing: Book on Indian Stock Market (Indian Share Market). Core Basics to wealth building Kindle Edition (unit V)

**Books for Reference:**
1. Dr. L. Natarajan, "Investment Management", Margham Publications, Chennai. 2016
2. Preethi shing, "Investment Management", Himalaya Publishing House, New Delhi.2016
3. V. Aavadhani- Investment & Securities markets In India, Himalaya Publishing House, New Delhi, 1999.
4. Donald E Fischer & Ronald J Jordan, "Security analysis and Portfolio Management", Prentice Hall of India Pvt limited, New Delhi, 2001.
5. Art of Stock Investing: Book on Indian Stock Market (Indian Share Market). Core Basics to wealth building Kindle Edition

1. https://www.investopedia.com/terms/i/investment-management.asp
2. https://www.morganstanley.com/what-we-do/investment-management
3. https://www.investopedia.com/investing/investing-strategies/

## Course outcomes

| CO. No. | CO- Statement<br>On completion of this course, the students will be able to | Cognitive Level (K- level) |
|---|---|---|
| CO-1 | Understand the various concept of investment and its importance in the financial context. | K1 |
| CO-2 | Classify the technical analysis principles, including Dow theory, indices, and major trends, in investment decision-making. | K2 |
| CO-3 | Apply SEBI guidelines in making informed investment decisions. | K3 |
| CO-4 | Analyzing the variations of options, Futures and determine the functions of OTCE1, in various markets | K4 |
| CO-5 | Evaluate the nature and scope of investment opportunities, including deposits, insurance, mutual funds, and real estate. | K5 |

## Relationship matrix

| Semester | Course Code | Title of the Course | | Hours | Credits |
|---|---|---|---|---|---|
| 6 | 25UCC63ES03A | **Discipline Specific Elective - 3:** Investment Management and stock trading | | 4 | 3 |

| Course Outcomes↓ | Programme Outcomes (PO) | | | | | Programme Specific Outcomes (PSO) | | | | | Mean Scores of Cos |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | PO1 | PO2 | PO3 | PO4 | PO5 | PSO1 | PSO2 | PSO3 | PSO4 | PSO5 | |
| CO-1 | 2 | 3 | 2 | 3 | 1 | 3 | 3 | 2 | 2 | 3 | 2.4 |
| CO-2 | 2 | 3 | 2 | 1 | 2 | 3 | 3 | 2 | 2 | 3 | 2.3 |
| CO-3 | 2 | 2 | 3 | 2 | 3 | 2 | 3 | 3 | 3 | 3 | 2.6 |
| CO-4 | 1 | 2 | 2 | 3 | 2 | 2 | 3 | 2 | 2 | 3 | 2.2 |
| CO-5 | 3 | 2 | 2 | 2 | 3 | 2 | 3 | 2 | 2 | 3 | 2.4 |
| | | | | | | | | | Mean Overall Score | | 2.3 (High) |

| Semester | Course Code | Title of the Course | Hours | Credits |
|:---:|:---:|:---:|:---:|:---:|
| 6 | 25UCC63ES03B | **Discipline Specific Elective - 3:** Business Law | 4 | 3 |

| CO- Statement |
|---|
| To acquire the basic knowledge on laws of Indian contract Act |
| To understand the principles of special contract |
| To know the laws relating to sale of goods act |
| To apply concepts, principles while undergoing bailment and pledge |
| To analyse the concepts of laws of agency |

**UNIT I: Law of Contract Act**          **(12 Hours)**

Nature and source of business law-Law of Contract **-** Nature of contract – Essentials of Contract—Effect of Void, Voidable, Valid, Illegal, Unlawful Agreements--Contingent contract – remedies for breach of contract – quasi contract.

**UNIT II: Indemnity and Guarantee**          **(12 Hours)**

Special Contracts- Contract of Indemnity and Guarantee – Distinction between Indemnity and guarantee– Kinds of guarantee – rights of surety -discharge of surety.

**UNIT III: Bailment and Pledge**          **(12 Hours)**

Bailment- Classification – duties and rights of Bailer and Bailee–finder of lost goods– termination of bailment –Pledge – difference between bailment and pledge– rights and duties of Pawnor and Pawnee.
*Indian philosophical and legal traditions emphasize the **principle of Dharma** (moral responsibility). The ideas of **Ahimsa** (non-violence) and **Satya** (truthfulness) are significant in the context of bailment and pledge. The notion that the goods should be returned after fulfilling their purpose reflects the deeply ingrained values of **trust** and **responsibility** in Indian culture.*

**UNIT IV: Sale of Goods Act**          **(12 Hours)**

Sale of goods- Difference between Sale Agreement- other Disposition of goods– Implied conditions and warranties– Transfer of property in title to goods–unpaid Sellers rights.

**UNIT V: Law of Agency**          **(12 Hours)**

Concept– various kinds of Agency– Agency by Estoppel–Agency by Ratification –Rights and duties of Third parties to principles and agent– Termination of Agency

| Teaching Methodology | PPT, Chalk and Talk |
|---|---|
| Assessment Methods | Seminar, Snap Test, MCQ |

**Books for Study:**
1. Kapoor. N. D., (2024), Elements of Mercantile Law – 1st edition Published by Sultan and Sons, New Delhi.

**Books for Reference:**
2. Shukla. M. C., (2022), Manual of Mercantile Law, 1st edition Published by S. Chand & Co., New Delhi.
3. Gogna. P. P. S., (2018). A Textbook of Mercantile Law, 1st edition Published by S. Chand & Co, New Delhi.
4. Jain. D. P., (2022). Mercantile Law.1st edition Published by Konark Publishers Pvt. Ltd., New Delhi.

**Websites and e Learning Sources:**
1. https://www.indiacode.nic.in/bitstream/123456789/2187/2/A187209.pdf
2. https://en.wikipedia.org/wiki/Contract
3. http://bdlaws.minlaw.gov.bd/act-26/chapter-details-86.html?lang=bn
4. http://student.manupatra.com/Academic/Abk/Law-of-Contract-and-Specific-Relief/Chapter9.htm
5. https://www.bharaticollege.du.ac.in/images/media/IM-9993-BC.pdf
6. https://academic.oup.com/book/58196/chapter/481129285

7. https://www.indiacode.nic.in/bitstream/123456789/2390/1/193003.pdf
8. https://www.casrilanka.com/casl/images/stories/EDBA/law%20of%20agency.p

| | Course Outcomes | |
|---|---|---|
| **CO No.** | **CO- Statements**<br>On successful completion of this course, the students will be able to | **Cognitive Level (K- level)** |
| **CO 1** | Relate the nature and essentials of contract. | **K1** |
| **CO 2** | Demonstrate the knowledge in kinds of guarantee and rights of surety. | **K2** |
| **CO 3** | Explain the rights and duties of pawnor and pawnee. | **K3** |
| **CO 4** | Compare the implied conditions and warranties | **K4** |
| **CO 5** | Determine the rights and duties of third parties to principles and agent. | **K5** |

| Relationship Matrix | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Semester** | **Course Code** | | **Title of the Course** | | | | | | | **Hours** | **Credits** |
| **6** | **25UCC63ES03B** | | **Discipline Specific Elective - 3:** Business Law | | | | | | | **4** | **3** |
| **Course Outcomes↓** | **Programme Outcomes (PO)** | | | | | **Programme Specific Outcomes (PSO)** | | | | | **Mean Scores of COs** |
| | **PO-1** | **PO-2** | **PO-3** | **PO-4** | **PO-5** | **PSO-1** | **PSO-2** | **PSO-3** | **PSO-4** | **PSO-5** | |
| **CO-1** | 3 | 3 | 3 | 2 | 2 | 3 | 3 | 3 | 3 | 2 | 2.7 |
| **CO-2** | 3 | 3 | 3 | 3 | 2 | 3 | 3 | 2 | 2 | 3 | 2.7 |
| **CO-3** | 3 | 3 | 3 | 2 | 3 | 2 | 3 | 2 | 3 | 2 | 2.6 |
| **CO-4** | 3 | 3 | 3 | 3 | 2 | 2 | 3 | 2 | 2 | 3 | 2.8 |
| **CO-5** | 3 | 3 | 3 | 2 | 3 | 2 | 3 | 2 | 2 | 3 | 2.6 |
| | | | | | | | | | **Mean Overall Score** | | 2.7 |
| | | | | | | | | | | | **High** |

| Semester | Course Code | Title of the Course | Hours/Week | Credits |
|---|---|---|---|---|
| 6 | 25UCC63ES04A | **Discipline Specific Elective – 4:** AI in Business Practices | 4 | 3 |

| CO- Statement |
|---|
| To understand the role of AI in modern business environments. |
| To explore ethical principles and challenges associated with AI deployment in business. |
| To examine AI applications in Key business functions such as marketing, finance, and operations. |
| To develop skills to evaluate ethical dilemmas and compliance issues in AI adoption. |
| To analyse the impact of AI on corporate governance and sustainable business practices. |

**UNIT I: Foundations of AI in Business** (12 Hours)

Definition, Scope, and Importance of AI in Business - Key AI Technologies and Business Use Cases - Ethical Theories and Frameworks Relevant to AI - Regulatory Landscape for AI in Business – Corporate Responsibility in AI Adoption

**UNIT II: AI in Business Operations and Ethics** (12 Hours)

AI Applications in Supply Chain and Operations Management - Ethical Considerations in Automation and Job Displacement - Transparency and Accountability in AI Systems - Role of AI in Enhancing Operational Efficiency -Ethical Audits and Compliance in AI-Driven Operations

**UNIT III: AI in Marketing and Consumer Ethics** (12 Hours)

AI in Digital Marketing and Customer Relationship Management - Ethical Concerns in Consumer Data Usage and Privacy - Personalization vs. Consumer Manipulation: Ethical Boundaries -AI for Market Analysis and Consumer Insights -Case Studies on Ethical AI Use in Marketing

**UNIT IV: AI in Financial Management and Ethical Compliance** (12 Hours)

AI Applications in Financial Planning, Risk Analysis, and Investment - Ethical Issues in Algorithmic Trading and Financial Decision-Making - Bias and Fairness in AI-Driven Credit Scoring - Compliance and Legal Frameworks for AI in Finance - Real-World Ethical Dilemmas in Financial AI Implementations

**UNIT V: Future Perspectives on AI Ethics in Business** (12 Hours)

Emerging Trends in AI Ethics for Business Sustainability - Role of AI in Corporate Governance and Leadership - Building Ethical AI Cultures in Organizations - Societal Impact of AI in Business Practices - Global Ethical Standards and Future Challenges

| | |
|---|---|
| **Teaching Methodology** | Interactive lectures supplemented with real-world case studies. - Group discussions on ethical issues arising from AI applications. -Practical demonstrations of AI tools in business contexts. - Role-play and simulation exercises for ethical decision-making. - Expert talks from industry leaders on AI ethics and governance. |
| **Assessment Methods** | Seminar, Snap Test, MCQ |

**Books for Study:**

1. Russell, S., & Norvig, P. (2021). *Artificial Intelligence: A Modern Approach* (4th ed.). Pearson.
2. Mittelstadt, B. D., & Floridi, L. (2016). *The Ethics of Artificial Intelligence: Key Concepts and Issues*. *Journal of Ethics and Information Technology*, 18(2), 123-140.
3. Brynjolfsson, E., & McAfee, A. (2017). *Machine, Platform, Crowd: Harnessing Our Digital Future*. W.W. Norton & Company.

**Books for Reference:**

1. Jobin, A., Ienca, M., & Vayena, E. (2019). *The Global Landscape of AI Ethics Guidelines*. *Nature Machine Intelligence*, 1(9), 389-399.
2. Moor, J. H. (2006). *The Nature, Importance, and Difficulty of Machine Ethics*. *IEEE Intelligent Systems*, 21(4), 18-21.

## Websites and eLearning Sources:
1. Future of Life Institute. (n.d.). *AI Policy and Ethics*. https://futureoflife.org/
2. World Economic Forum. (n.d.). *Ethics of AI and Robotics*. https://www.weforum.org/
3. Stanford University. (n.d.). *AI Ethics and Society*. https://ai.stanford.edu/
4. Coursera – *AI For Everyone* (https://www.coursera.org/learn/ai-for-everyone)
5. edX – *Ethics of AI and Big Data* (https://www.edx.org/)
6. Udemy – *AI and Business Ethics: A Comprehensive Guide* (https://www.udemy.com/)

| CO No. | CO-Statements On successful completion of this course, the students will be able to | Cognitive Levels (K-Level) |
|---|---|---|
| | **Course outcomes** | |
| CO1 | Recall key AI technologies and ethical frameworks in business. | K1 |
| CO2 | Explain the ethical implications of AI in various business operations. | K2 |
| CO3 | Apply AI tools to business scenarios while considering ethical aspects. | K3 |
| CO4 | Analyze complex ethical issues related to AI adoption in businesses. | K4 |
| CO5 | Evaluate AI-driven business decisions from an ethical standpoint. | K5 |

| Relationship Matrix | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| **Semester** | **Course Code** | | **Title of the Course** | | | **Hours/Week** | | **Credits** | | |
| 6 | 25UCC63ES04A | | Discipline Specific Elective – 4: AI in Business Practices | | | 4 | | 3 | | |
| **Course Outcomes** | **Programme Outcomes (POs)** | | | | | **Programme Specific Outcomes (PSOs)** | | | | **Mean Score of COs** |
| | PO1 | PO2 | PO3 | PO4 | PO5 | PSO1 | PSO2 | PSO3 | PSO4 | PSO5 | |

| Course Outcomes | PO1 | PO2 | PO3 | PO4 | PO5 | PSO1 | PSO2 | PSO3 | PSO4 | PSO5 | Mean Score of COs |
|---|---|---|---|---|---|---|---|---|---|---|---|
| CO1 | 3 | 2 | 3 | 2 | 2 | 3 | 2 | 2 | 3 | 2 | 2.4 |
| CO2 | 2 | 3 | 2 | 3 | 2 | 3 | 2 | 3 | 2 | 1 | 2.3 |
| CO3 | 2 | 2 | 3 | 2 | 1 | 3 | 3 | 2 | 3 | 1 | 2.2 |
| CO4 | 3 | 3 | 2 | 3 | 2 | 3 | 3 | 2 | 3 | 2 | 2.6 |
| CO5 | 2 | 2 | 3 | 2 | 1 | 3 | 2 | 3 | 2 | 1 | 2.1 |
| | | | | | | | | | **Mean Overall Score** | | 2.4 (High) |

| Semester | Course Code | Title of the Course | Hours/Week | Credits |
|----------|-------------|---------------------|------------|---------|
| 6 | 25UCC63ES04B | **Discipline Specific Elective – 4:** Total Quality Management | 4 | 3 |

| Course Objectives |
|---|
| To Understand the importance of product and service quality |
| To Identify various quality; management principles and process |
| To Understand the methodology of quality system |
| To Apply the techniques of total quality management in business |
| To Analyze about the tools of quality |

**UNIT I: Introduction to quality management** (12 Hours)

Definition and Importance of Quality - Evolution of Quality Concepts - Quality Philosophies: Deming, Juran, Crosby - Principles of Total Quality Management (TQM) - Benefits and Challenges of TQM Implementation - Cost of Quality (COQ) and Quality Assurance - Barrier to TQM

**UNIT II: TQM Principles and Frame work** (12Hours)

Customer Focus and Satisfaction - Leadership and Strategic Quality Planning - Employee Involvement and Teamwork - Continuous Improvement (Kaizen) - Supplier Partnership and Quality in Supply Chain - 5S Concept and Housekeeping **"***Kaizen" parallels with "Nitya Nootana" (constant innovation) from Indian philosophy. "Pancha Kosha" model of holistic development—aligning with employee well-being and engagement in TQM*

**UNIT III: Tools and Techniques for Quality Improvement** (12 Hours)

Seven Basic Quality Tools (Check Sheets, Histograms, Pareto Charts, etc.) - Seven new management tools - Failure Mode and Effects Analysis (FMEA) - Benchmarking and Best Practices- Six Sigma Methodology and Lean Principles -Quality Function Deployment (QFD) *Chanakya's Arthashastra and its principles of strategic benchmarking. Ancient Indian measurement and standardization practices in trade and temple architecture*

**UNIT IV: Quality Standards and Certifications** (12 Hours)

ISO 9000 Series and ISO 14000 - Total Productive Maintenance (TPM) - Malcolm Baldrige National Quality Award (MBNQA) - European Foundation for Quality Management (EFQM) Model - HACCP and Other Industry-Specific Quality Standards - Case Studies on Quality Implementation

**UNIT V: Implementation and Sustainability of TQM** (12 Hours)

TQM Implementation Strategies - Organizational Culture and Change Management - Role of Leadership in Quality Management - Quality Audits and Performance Measurement - Business Excellence Models *Bhagavad Gita's leadership principles in quality and decision-making. Sustainability concepts in ancient Indian town planning (e.g., Harappan cities)*

| Teaching Methodology | PPT, Videos and group discussion |
|---|---|
| Assessment methods | MCQs, seminar, snap test, open book test, group discussion |

**Books for Study:**

1. Total Quality Management, 5e Paperback ,2018 - Dale H. Carol, , Glen H. , Mary , Urdhwareshe Hemant, Pearson Education
2. Quality Control and Management- 2010– James R. Evans and William M. Lindsay, South-Western
3. Total Quality Management – Poornima M. Charantimath, 2022, Pearson Education

**Books for Reference:**

1. Quality Management – Howard S. Gitlow, Alan J. Oppenheim, Rosa Oppenheim, and David M. Levine, 2017, 3rd edition, McGraw Hill Education
2. Managing for Quality and Performance Excellence – James R. Evans and William M. Lindsay, 2015,9th Edition, Cengage India Private Limited
3. Total Quality Management – K. Shridhara Bhat, 2017, Himalaya Publishing House

| CO. No. | CO- Statement | Cognitive Level (K- level) |
|---|---|---|
| | On successful completion of this course, students will be able to | |
| CO-1 | Understand the importance of product and service quality | K1 |
| CO-2 | Identify various quality, management principles and process | K2 |
| CO-3 | Understand the methodology of quality system | K3 |
| CO-4 | Apply the techniques of total quality management in business | K4 |
| CO-5 | Analyze about the tools of quality | K5 |

| Relationship matrix | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Semester | Course Code | | Title of the Course | | | | | | Hours | Credits | |
| 6 | 25UCC63ES04B | | Discipline Specific Elective – 4: Total Quality Management | | | | | | 4 | 3 | |
| Course Outcomes↓ | Programme Outcomes (PO) | | | | | Programme Specific Outcomes (PSO) | | | | | Mean Scores of Cos |
| | PO1 | PO2 | PO3 | PO4 | PO5 | PSO1 | PSO2 | PSO3 | PSO4 | PSO5 | |
| CO-1 | 3 | 1 | 3 | 1 | 2 | 3 | 2 | 3 | 3 | 2 | 2.3 |
| CO-2 | 2 | 3 | 2 | 3 | 3 | 3 | 3 | 3 | 1 | 2 | 2.5 |
| CO-3 | 2 | 1 | 2 | 3 | 3 | 3 | 2 | 2 | 2 | 1 | 2.1 |
| CO-4 | 3 | 1 | 2 | 1 | 3 | 3 | 2 | 3 | 3 | 1 | 2.2 |
| CO-5 | 2 | 3 | 3 | 2 | 3 | 2 | 1 | 3 | 3 | 3 | 2.5 |
| Mean Overall Score | | | | | | | | | | | 2.3 (High) |

| Semester | Course Code | Title of the Course | Hours/Week | Credits |
|---|---|---|---|---|
| 6 | 25UCC63EL01A | Project (Commerce) | 0 | 1 |

| Course Objectives |
|---|
| To apply theoretical knowledge of commerce, finance, and management to real-world business scenarios. |
| To develop research, analytical, and problem-solving skills in business and commerce-related fields. |
| To enhance decision-making and strategic planning abilities through project work. |
| To improve professional communication, documentation, and presentation skills. |
| To evaluate business challenges and propose innovative solutions for industry growth. |

## UNIT I: Problem Selection & Research Methodology

Identifying a business or commerce-related research problem - Conducting a literature review. Defining objectives, scope, and methodology - Data collection methods (primary & secondary) -Ethical considerations in business research.

## UNIT II: Business Analysis & Feasibility Study

Understanding market trends and business environments - Financial and operational feasibility analysis - SWOT and PESTLE analysis - Legal and regulatory considerations - Developing business models and strategies.

## UNIT III: Data Collection, Interpretation & Analysis

Data collection tools (surveys, interviews, financial reports, etc.) - Quantitative and qualitative data analysis - Use of statistical tools for business decision-making - Interpretation of financial statements and market data- Case study analysis and findings.

## UNIT IV: Report Writing & Documentation

Structuring the project report -Writing an executive summary - Preparing financial and analytical reports. Referencing and citation of sources- Compliance with business research standards.

## UNIT V: Presentation & Viva-Voce

Preparing an effective business presentation- Presenting key findings and recommendations - Handling Q&A sessions- Professional communication and confidence building - Submission of final project report.

**Evaluation Criteria (Total: 100 Marks)**

| Component | Marks Allocation |
|---|---|
| Project Proposal & Research Methodology | 10 Marks |
| Business Analysis & Feasibility Study | 20 Marks |
| Data Collection & Interpretation | 30 Marks |
| Report Writing & Documentation | 15 Marks |
| Presentation & Viva-Voce | 25 Marks |
| **Total** | 100 Marks |

**THIS SYLLABUS IS APPLICABLE ONLY TO STUDENTS WHO HAVE OPTED FOR A COMMERCE PROJECT.**

| Course Outcomes | | |
|---|---|---|
| **CO No.** | **CO-Statements** On successful completion of this course, the students will be able to | **Cognitive Levels (K-Level)** |
| CO1 | Relate theoretical concepts of commerce to practical business scenarios. | K1 |
| CO2 | Demonstrate analytical and research skills for problem-solving in business. | K2 |
| CO3 | Explain financial, managerial, and strategic implications of business decisions. | K3 |
| CO4 | Compare and contrast different business models and market trends. | K4 |
| CO5 | Determine effective solutions for business challenges based on data analysis and research. | K5 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Relationship Matrix | | | | | | | | | | |
| Semester | Course Code | | Title of the Course | | | | | | Hours/Week | Credits |
| 6 | 25UCC63EL01A | | Project (Commerce) | | | | | | 0 | 1 |

| Course Outcomes | Programme Outcomes (POs) | | | | | Programme Specific Outcomes (PSOs) | | | | | Mean Score of COs |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | PO1 | PO2 | PO3 | PO4 | PO5 | PSO1 | PSO2 | PSO3 | PSO4 | PSO5 | |
| CO1 | 3 | 2 | 3 | 2 | 2 | 3 | 2 | 2 | 3 | 2 | 2.4 |
| CO2 | 2 | 3 | 2 | 3 | 2 | 3 | 2 | 3 | 2 | 1 | 2.3 |
| CO3 | 2 | 2 | 3 | 2 | 1 | 3 | 3 | 2 | 3 | 1 | 2.2 |
| CO4 | 3 | 3 | 2 | 3 | 2 | 3 | 3 | 2 | 3 | 2 | 2.6 |
| CO5 | 2 | 2 | 3 | 2 | 1 | 3 | 2 | 3 | 2 | 1 | 2.1 |
| | | | | | | | | | Mean Overall Score | | 2.4 (High) |

| Semester | Course Code | Title of the Course | Hours/Week | Credits |
|----------|-------------|---------------------|------------|---------|
| 6 | 25UCC63PW01 | **Project (Computer Science)** | 0 | 1 |

| Course Objectives |
|-------------------|
| To apply theoretical knowledge to develop innovative solutions for real-world problems. |
| To enhance research, design, and implementation skills in a specific domain. |
| To develop problem-solving, teamwork, and project management skills. |
| To demonstrate effective technical communication through reports and presentations. |
| To evaluate project outcomes and propose improvements for future advancements. |

## UNIT I: Project Identification & Proposal Preparation

Identifying a research problem or project topic - Conducting a literature review - Defining objectives and scope - Preparing a project proposal -Approval process and ethical considerations.

## UNIT II: System Design & Methodology

Understanding system architecture and design - Choosing appropriate tools, technologies, and frameworks - Developing a workflow and methodology - Risk assessment and mitigation strategies - Setting up development/testing environments.

## UNIT III: Implementation & Development

Coding, simulations, or prototype development - Debugging and troubleshooting issues -Version control and documentation - Iterative development and feedback implementation - Adhering to industry standards and best practices.

## UNIT IV: Testing, Validation & Performance Evaluation

Testing methodologies (unit testing, integration testing, etc.) - Performance analysis and result validation - Debugging and optimization Documentation of test cases and results- Comparing expected and actual outcomes.

## UNIT V: Final Report & Presentation

Structuring the final project report - Preparing project documentation and user manuals - Creating an effective presentation- Demonstrating project outcomes - Addressing feedback and final submission.

Evaluation Criteria (Total: 100 Marks)

| Component | Marks Allocation |
|-----------|------------------|
| Project Proposal & Literature Review | 10 Marks |
| Design & Methodology | 20 Marks |
| Implementation & Development | 30 Marks |
| Testing & Validation | 15 Marks |
| Final Report & Presentation | 25 Marks |
| **Total** | **100 Marks** |

**THIS SYLLABUS IS APPLICABLE ONLY TO STUDENTS WHO HAVE OPTED FOR A COMPUTER SCIENCE PROJECT**

## Course Outcomes

| CO No. | CO-Statements<br>On successful completion of this course, the students will be able to | Cognitive Levels (K-Level) |
|---|---|---|
| CO1 | Relate academic concepts to practical applications in project development. | K1 |
| CO2 | Demonstrate problem-solving, teamwork, and critical thinking skills. | K2 |
| CO3 | Explain the methodologies, tools, and technologies used in project implementation. | K3 |
| CO4 | Compare and contrast different approaches to testing and performance evaluation. | K4 |
| CO5 | Determine the success of a project based on outcomes, feedback, and future enhancements | K5 |

## Relationship Matrix

| Semester | Course Code | Title of the Course | | | | | Hours/Week | Credits |
|---|---|---|---|---|---|---|---|---|
| 6 | 25UCC63PW01 | Project (Computer Science) | | | | | 0 | 1 |

| Course Outcomes | Programme Outcomes (POs) | | | | | Programme Specific Outcomes (PSOs) | | | | | Mean Score of COs |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | PO1 | PO2 | PO3 | PO4 | PO5 | PSO1 | PSO2 | PSO3 | PSO4 | PSO5 | |
| CO1 | 3 | 2 | 3 | 2 | 2 | 3 | 2 | 2 | 3 | 2 | 2.4 |
| CO2 | 2 | 3 | 2 | 3 | 2 | 3 | 2 | 3 | 2 | 1 | 2.3 |
| CO3 | 2 | 2 | 3 | 2 | 1 | 3 | 3 | 2 | 3 | 1 | 2.2 |
| CO4 | 3 | 3 | 2 | 3 | 2 | 3 | 3 | 2 | 3 | 2 | 2.6 |
| CO5 | 2 | 2 | 3 | 2 | 1 | 3 | 2 | 3 | 2 | 1 | 2.1 |
| | | | | | | | | | | **Mean Overall Score** | **2.4 (High)** |

| Semester | Course Code | Title of the Course | Hours | Credits |
|----------|-------------|---------------------|-------|---------|
| 6 | 25UCC63CE01 | Comprehensive Examination | - | 2 |

| Course Objectives |
|-------------------|
| To know the concept and gain knowledge On Financial, corporate and management accounting. |
| To enlighten the concepts of cost accounting and compute various material control techniques, Labour and overheads |
| To create scientific and technical documents incorporating equations, images, tables, and bibliographies. |
| To apply concepts and principles of business law, Auditing Income tax |
| To analyze the concept of computer Application in business |

## UNIT I: Marketing and Accounting

Thoughts – F. W. Taylor, Henry Fayol, Peter F. Drucker, Elton Mayo - Functions of Management - Trends and Challenges of Management. Managers – Qualification – Duties and Responsibilities Market Segmentation and Consumer Behaviour- Product Management, Advertising and Personal Selling New Horizons in Marketing -Fundamentals of Financial Accounting, corporate accounting: Basic Accounting Concepts and Conventions - Journal, Ledger Accounts– Subsidiary Books — Trial Balance - Classification of Errors – Rectification of Errors Issue, Forfeiture and reissue of shares – Absorption, Amalgamation and Merger-Preparation of consolidated balance sheet – cost of control – Pre-acquisition reserves and profits – Post-acquisition profits – Minority interest -

## UNIT II: C programming, Tall

Features of C Language, Variables, Data Types and Operators, Control Flow Statements – computer systems MS-Word--MS – Excel-concepts of OOPs -Pointers, Virtual functions and polymorphism-Accounting Software Tally: Characteristics of the Software – Creation of a Company – Security Control – Configuration – Accounts Information – Creation of Ledgers – Vouchers – Types of Vouchers – Cost Center Budgets

## UNIT III: Management accounting and cost accounting

Analysis of financial statements; Common size and comparative financial statements- fund flow, cash analysis- capital budgeting - Cost, Costing and Cost Accountancy – Functions of Cost Accounting - Comparison of cost accounting and management Accounting and Financial Accounting - classification of Cost –Methods costing–Techniques of costing –Material costing - Labour cost – Overheads -     Contract costing

## UNIT IV: Contract, Banking, Auditing

The Indian Contract Act- Nature of contract – Essentials of Contract—Effect of Void, Voidable, Valid, Illegal,– quasi contract-Kinds of deposits - Joint accounts – Nomination - Closure of deposit accounts and Deposit insurance - Fund-based services - Non-Fund based services - Money Remittance Services and Banking Channels-Efficiency Audit –Property Audit - Techniques of Auditing - Stages – Standards of Auditing – perception before commencing of audit- Income tax- Definitions - Previous Year, Assessment Year, Persons, Assessee, sources of Income, Gross Total Income,

## UNIT V: Data base and R

Data modeling for a Database-Relational Database - Attributes and Domain-Fundamentals of PL/SQL-Loading and handling data in R-Challenges in Analytical Data Processing-Mathematical and statistical functions-Character functions - Looping and conditional execution-User-written functions-Ways to aggregate and reshape data

**Books for Study:**
1. Philip T. Kotler, Gary Armstrong, (2018) Principles of Marketing, PrafullaAgnihotri, Pearson Publications, 2018. (UNIT- I)
2. Dr. S. M. Shukla, Dr. K. L. Gupta, (2018), *Corporate Accounting*, Fifty Second Edition, Sahitya Bhawan Publication, India (UNIT II)
3. Jain &Narang-Cost Accounting Principles and Practice –Kalyani Publishers, 2016. (UNIT III)
4. Kapoor. N. D., (2011), Elements of Mercantile Law – 1st edition Published by Sultan and Sons, New Delhi (UNIT IV)

5. Alexis Leon, Mathews Leon, Leena Leon (2013). Introduction to Information Technology, 1st Edition, Vijay Nicole Imprints Private Limited, Chennai. (UNIT V)
6. Programming In C, Dr. Reema Thareja, 2023, Oxford University Press

**Books for Reference:**
1. Suresh K Basendra (2001). Computers Today,1st Edition, Galgotia publication private Ltd., New Delhi.
2. S. P. Jain, K. L. Narang, (2018), *Advanced Accounting*, First Edition, Kalyani Publishers, India.
3. A Murthy and S. Gursamy- Cost Accounting, Vijay Nicole Imprints Private Ltd., 2016.
4. Shukla. M.C., (2010), Manual of Mercantile Law, 1st edition Published by S. Chand & Co., New Delhi.
5. Suresh K Basendra (2001). Computers Today,1st Edition, Galgotia publication private Ltd., New Delhi.

| CO. No. | CO- Statements | Cognitive Level (K- level) |
|---|---|---|
| | On successful completion of this course, students will be able to | |
| **CO-1** | Know and understand the concepts and gain knowledge On financial, corporate and management accounting. | **K1** |
| **CO-2** | Enlighten the concepts of cost accounting and compute various material control techniques, Labour and overheads | **K2** |
| **CO-3** | Create scientific and technical documents incorporating equations, images, tables, and bibliographies. | **K3** |
| **CO-4** | Apply concepts and principles of business law | **K4** |
| **CO-5** | Analyze the concept of computer Application in business | **K5** |

| Relationship matrix | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Semester** | **Course Code** | **Title of the Course** | | | | | | | **Hours** | | **Credits** |
| 6 | **25UCC63CE01** | Comprehensive Examination | | | | | | | - | | 2 |
| **Course Outcomes↓** | **Programme Outcomes (PO)** | | | | | **Programme Specific Outcomes (PSO)** | | | | | **Mean Scores of Cos** |
| | **PO1** | **PO2** | **PO3** | **PO4** | **PO5** | **PSO1** | **PSO2** | **PSO3** | **PSO4** | **PSO5** | |
| **CO-1** | 2 | 1 | 3 | 3 | 1 | 2 | 3 | 2 | 3 | 2 | 2.2 |
| **CO-2** | 3 | 1 | 2 | 3 | 2 | 1 | 3 | 3 | 3 | 3 | 2.4 |
| **CO-3** | 2 | 3 | 2 | 3 | 2 | 2 | 3 | 3 | 2 | 1 | 2.3 |
| **CO-4** | 3 | 3 | 3 | 3 | 3 | 1 | 2 | 3 | 2 | 1 | 2.4 |
| **CO-5** | 2 | 3 | 3 | 2 | 1 | 2 | 3 | 1 | 3 | 2 | 2.2 |
| | | | | | | | | | **Mean Overall Score** | | 2.3 |
| | | | | | | | | | | | **High** |

| Semester | Course Code | Title of the Course | Hours | Credits |
|----------|-------------|---------------------|-------|---------|
| 6 | 25UCC64OE02A | **Open Elective – 2:** Social Media Marketing | 4 | 2 |

| Course Objectives |
|-------------------|
| To Employ the important concepts of social media marketing |
| To Practice the various theoretical aspects in Facebook marketing |
| To Discuss the different ways of marketing using Twitter and LinkedIn |
| To Illustrate YouTube marketing and optimization |
| To Create Instagram business profile and promote business |

**UNIT-I: Introduction to social media advertising** (12 Hours)

Why is social media marketing important- Introduction to social media advertising - Developing Social Media strategy- Social Media Management Tools: How to Cut Posting Time - in Half-Different types of Social Media Platforms

**UNIT-II: Facebook Marketing** (12 Hours)

Facebook Marketing-Introduction to Facebook Marketing- Create Facebook Page and Cover - Pages-Page Settings, Description and About Page- Post Formulas Guaranteed to Drive – Engagement Facebook Ads and Campaign- Types of Facebook Ads – In Depth Analysis- Facebook Engagement, Reporting and Insights-Facebook Analytics- How to Start a Facebook - Ads Business/Agency

**UNIT-III: Twitter and LinkedIn Marketing** (12 Hours)

Introduction to Twitter Marketing- How Twitter Works- What Not to Do on Twitter- Ways to Get More Re Tweet- Steps to Optimize Your Profile- Hashtags to Increase Discoverability- Twitter Advertisement- Introduction to LinkedIn Marketing- Optimize Your LinkedIn Profile-LinkedIn for Advertisement- Reach Your Target Audience with LinkedIn-How to Get 500+ Connections and Why you Should- How to Make Sales on LinkedIn- Advanced LinkedIn Strategies for B2B Marketing

**UNIT-IV: YouTube Marketing** (12 Hours)

Introduction to YouTube Marketing- YouTube Marketing Strategy-The Subscriber Advantage- Account Set Up, Optimization, Keyword Research and Video Structure- YouTube SEO, Thumbnails, Annotations and Cards- YouTube Promotion and Analytics- YouTube Monetarization

**UNIT-V: Instagram- Marketing** (12 Hours)

How to Create an Instagram Business Profile- Optimize your Instagram Bio & Profile Image- Instagram Captions &Hashtags -Reposting Instagram Content- How to Increase your Instagram Followers & Exposure- Ways to Convert Instagram Followers to Sales & Leads- Sponsored Posts -Instagram Ads via Facebook - Instagram Analytics -Instagram Profile + Instagram Post Captions- Instagram Ads-Engagement + Instagram Algorithm- Instagram Stories + Instagram Reels + IGTV-Shopping on Instagram.

| Teaching Methodology | PPT, Video |
|----------------------|------------|
| **Assessment Methods** | Practical Assignments, Case Studies & Real-World Applications, Peer Reviews & Group Activity |

**Books for Study:**
1. Crittenden, V., & Crittenden, W. (2015). Digital and social media marketing in business education: Implications for the marketing curriculum.
2. Evans, L. (2010). Social media marketing: strategies for engaging in Facebook, Twitter & other social media. Pearson Education.
3. Geho, P. R., &Dangelo, J. (2012), The evolution of social media as a marketing tool for entrepreneurs. The Entrepreneurial Executive, 17, 61.

**Books for Reference:**
1. Heinze, A., Fletcher, G., Rashid, T., & Cruz, A. (Eds.). (2020). Digital and social media marketing: a results-driven approach. Routledge.

2. Shen, C. W., Luong, T. H., Ho, J. T., & Djailani, I. (2019). Social media marketing of IT service companies: Analysis using a concept-linking mining approach. Industrial Marketing Management.
3. Tuten, T. L., & Solomon, M. R. (2017). Social media marketing Sage

**Websites and eLearning Sources:**
1. https://www.wordstream.com/social-media-marketing
2. https://sproutsocial.com/insights/social-media-marketing-strategy/
3. https://www.investopedia.com/terms/s/social-media-marketing-smm.asp
4. https://sproutsocial.com/insights/marketing-resources/

| CO. No | CO Statements On successful completion of the course students will be able | Cognitive Level (K- level) |
|--------|------------------------------------------------------------------------------|----------------------------|
| CO1 | To Employ the important concepts of social media marketing | K1 |
| CO2 | To Practice the various theoretical aspects in Facebook marketing | K2 |
| CO3 | To Discuss the different ways of marketing using Twitter and LinkedIn | K3 |
| CO4 | To Illustrate YouTube marketing and optimization | K4 |
| CO5 | To Create Instagram business profile and promote business | K5 |

| Relationship Matrix | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Semester** | **Course Code** | | **Title of the Course** | | | | | | **Hours** | **Credits** | |
| 6 | 25UCC64OE02A | | Open Elective – 2: Social Media Marketing | | | | | | 4 | 2 | |
| **Course Outcomes↓** | **Programme Outcomes (PO)** | | | | | **Programme Specific Outcomes (PSO)** | | | | | **Mean Scores of COs** |
| | PO1 | PO2 | PO3 | PO4 | PO5 | PSO1 | PSO2 | PSO3 | PSO4 | PSO5 | |
| CO-1 | 3 | 3 | 2 | 2 | 1 | 3 | 2 | 3 | 1 | 1 | 2.1 |
| CO-2 | 3 | 1 | 3 | 1 | 1 | 3 | 2 | 3 | 1 | 2 | 2 |
| CO-3 | 3 | 3 | 3 | 2 | 1 | 3 | 1 | 3 | 1 | 3 | 2.3 |
| CO-4 | 3 | 1 | 3 | 3 | 2 | 3 | 2 | 3 | 1 | 2 | 2.3 |
| CO-5 | 3 | 3 | 3 | 1 | 2 | 3 | 2 | 3 | 1 | 2 | 2.3 |
| | | | | | | | | | **Mean Overall Score** | | 2.2 |
| | | | | | | | | | | | High |

| Semester | Course Code | Title of the Course | Hours | Credits |
|----------|-------------|---------------------|-------|---------|
| 6 | 25UCC64OE02B | **Open Elective – 2:** Basics of Banking | 4 | 2 |

| Course Objectives |
|-------------------|
| To learn the fundamentals of banking system and monetary parameters |
| To enhance knowledge on the various services related to banking sector |
| To Know the monetary policy of Central bank |
| To gain Competency in Security creation, NPA and BASEL Frameworks |
| To Gain knowledge on the new trends and challenges in banking sector |

**Unit 1: Introduction to Banking** (12 Hours)

Evolution of banking in India and globally - Definition and functions of a bank - Types of banks: Commercial, Cooperative, Development, Central Bank - Structure of Indian Banking System - Regulatory framework – RBI and its functions

**Unit 2: Banking Products and Services** (12 Hours)

Types of bank accounts: Savings, Current, Fixed Deposit, Recurring Deposit - Loans and advances: Personal loans, Home loans, Education loans, Business loans - Cheques and its features – types, endorsement, dishonor - Debit and credit cards, ATMs - Internet banking, Mobile banking, NEFT, RTGS, IMPS - UPI and digital payment systems

**Unit 3: Central Banking and Monetary Policy** (12 Hours)

Role and functions of the Reserve Bank of India - Monetary policy – objectives and instruments - CRR, SLR, Repo rate, Reverse repo rate, Bank rate, MSF - RBI's role in currency issuance and inflation control - Financial inclusion and RBI initiatives

**Unit 4: Banker-Customer Relationship** (12 Hours)

Definition of banker and customer - General and special relationship - Rights and obligations of a banker - KYC norms and AML guidelines - Customer grievances and Banking Ombudsman Scheme

**Unit 5: Recent Trends and Developments in Banking** (12 Hours)

E-banking and fin-tech innovations - Core banking solutions (CBS) - Cybersecurity in banking - Role of AI and block-chain in banking - Mergers and consolidations in Indian banking sector - Financial literacy and customer awareness programs

| Teaching Methodology | PPT, Videos, chalk and talk method |
|----------------------|-----------------------------------|
| **Assessment methods** | MCQs, seminar, snap test, open book test, group discussion |

**Books for Study:**
1. Bank Regulation, Risk Management, and Compliance: Theory, Practice, and Key Problem Areas, Alexander Dill, 2021, Informa law from Routledge, Taylor & Francis Group
2. Sundaram, K. P. M. & Varshney, P.N. (2014). *Banking Theory Law &Practice*. Sultan Chand & Sons.

**Books for Reference:**
1. Tannan, M. L**.** (2021*). Banking Law and Practice in India*. India Book House.
2. Gurusamy, S**.** (2017). *Banking Theory Law and Practice*. Tata McGraw Hill.
3. Gordon, E.& Natarajan, K. (2020). *Banking Theory Law & Practice*. Himalaya. Publishing House.

## Course Outcomes

| CO No. | CO-Statements<br>On successful completion of this course, students will be able to | Cognitive Levels (K-Level) |
|---|---|---|
| **CO1** | Learn the fundamentals of banking system | **K1** |
| **CO2** | Acquire the various product and service knowledge related to banking sector | **K2** |
| **CO3** | Know the monetary policy of Central bank | **K3** |
| **CO4** | Gain Competency in Security creation, NPA and BASEL Frameworks | **K4** |
| **CO5** | Gain knowledge on the new trends and challenges in banking sector | **K5** |

## Relationship Matrix

| Semester | Course Code | Title of the Course | | Hours | Credits |
|---|---|---|---|---|---|
| **6** | **25UCC64OE02B** | **Open Elective – 2:** Basics of Banking | | **4** | **2** |

| Course Outcomes | Programme Outcomes (POs) | | | | | Programme Specific Outcomes (PSOs) | | | | | Mean Score of Cos |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | PO1 | PO2 | PO3 | PO4 | PO5 | PSO1 | PSO2 | PSO3 | PSO4 | PSO5 | |
| **CO1** | 3 | 3 | 2 | 3 | 2 | 3 | 3 | 2 | 3 | 1 | **2.5** |
| **CO2** | 3 | 3 | 2 | 2 | 3 | 2 | 3 | 2 | 3 | 2 | **2.5** |
| **CO3** | 3 | 3 | 2 | 3 | 1 | 2 | 3 | 3 | 3 | 2 | **2.5** |
| **CO4** | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 3 | 3 | 2 | **2.2** |
| **CO5** | 3 | 3 | 1 | 1 | 2 | 1 | 3 | 2 | 2 | 2 | **2.0** |
| | | | | | | | | | | **Mean Overall Score** | **2.3(High)** |