B. Com.
(INFORMATION TECHNOLOGY)

CHOICE BASED CREDIT SYSTEM (CBCS)

Curriculum and Syllabus

Regular (2026–2027)

Enable | Enlighten | Enrich
KARPAGAM
ACADEMY OF HIGHER EDUCATION
(Deemed to be University)
(Established Under Section 3 of UGC Act, 1956)

DEPARTMENT OF COMMERCE WITH INFORMATION TECHNOLOGY

FACULTY OF ARTS, SCIENCE, COMMERCE AND MANAGEMENT

KARPAGAM ACADEMY OF HIGHER EDUCATION

(Deemed to be University)

(Established Under Section 3 of UGC Act,1956)

(Accredited with A+ Grade by NAAC in the Second Cycle)
Eachanari (Post), Coimbatore – 641 021.
Tamil Nadu, India
PhoneNo.0422-2980011-14 FaxNo:0422-2980022-23

Email ID: info@kahedu.edu.in
Web: www.kahedu.edu.in

KARPAGAM ACADEMY OF HIGHER EDUCATION

(Deemed to be University)
(Established under Section 3 of UGC Act, 1956)
(Accredited with A+ Grade by NAAC in the Second Cycle)
Eachanari Post, Coimbatore - 641 021, Tamil Nadu, India

FACULTY OF ARTS, SCIENCE, COMMERCE AND MANAGEMENT
UNDERGRADUATE PROGRAMMES
REGULAR MODE
CHOICE BASED CREDIT SYSTEM (CBCS)

REGULATION – 2026- 2027

The following regulations shall apply to candidates admitted to the Undergraduate (UG) programmes under the Faculty of Arts, Science, Commerce and Management at Karpagam Academy of Higher Education (KAHE), with effect from the academic year 2026-2027 onwards.

1 PROGRAMMES OFFERED, MODE OF STUDY AND ADMISSION REQUIREMENTS

1.1 UG Programmes Offered

A candidate may enroll in any one of the undergraduate programmes approved and offered by Karpagam Academy of Higher Education (KAHE), as listed below:

S.No.	PROGRAMME	DISCIPLINE
1.	B.Com.	Commerce
2.	B.Com.	Computer Applications
3.	B.Com.	Professional Accounting
4.	B.Com.	Business Process Services
5.	B.Com.	Financial Analytics
6.	B.Com.	International Accounting and Finance
7.	B.Com.	Information Technology
8.	B.Com.	FinTech
9.	BBA	Business Administration
10.	BCA	Computer Applications
11.	B.Sc.	Biotechnology
12.	B.Sc.	Microbiology
13.	B.Sc.	Computer Science
14.	B.Sc.	Information Technology
15.	B.Sc.	Computer Science (Cyber Security)
16.	B.Sc.	Computer Science (Cognitive Systems)

17.	B.Sc.	Computer Science (Artificial Intelligence and Data Science)
18.	B.Sc.	Computer Science (Artificial Intelligence and Machine Learning)

1.2 Admission Requirements (Eligibility)

A candidate shall be eligible for admission to the first year of the Undergraduate (UG) Degree Programme if he/she has passed the Higher Secondary Examination (10+2) [Academic or Vocational] conducted by the Government of Tamil Nadu, or any other examination accepted by Karpagam Academy of Higher Education (KAHE) as equivalent thereto.

1.3 Mode of Study

All Programmes are offered in the Full-Time Regular mode.

---

2. DURATION OF THE PROGRAMMES

2.1 The minimum and maximum duration for the completion of the UG Programmes shall be as follows:

Programme(s) (Honors)	**Min. No. of Semesters**	**Max. No. of Semesters**
B.Sc., B.Com., BCA and BBA	8	16

2.2 Each semester normally consists of 90 working days or 450 instructional hours of study. Examination shall be conducted at the end of each semester for the respective courses.

2.3 Multiple Entry and Exit

Students are permitted to exit the programme after the successful completion of 2, 4, 6, or 8 semesters, and shall be awarded the following qualifications accordingly:

- After 2 semesters – Undergraduate Certificate
- After 4 semesters – Undergraduate Diploma
- After 6 semesters – Bachelor's Degree
- After 8 semesters – Bachelor's Degree with Honours / Honours Research) *

Similarly, students from other recognized institutions may seek admission to Karpagam Academy of Higher Education (KAHE) under the Multiple Entry provision in the 3rd, 5th, or 7th semester, provided they possess an appropriate Undergraduate Certificate, Undergraduate Diploma, or Bachelor's Degree, respectively, as per the eligibility norms and regulations of KAHE.

4-year UG Degree (Honours): *A four-year UG Honours degree in the major discipline will be awarded to those who complete a four-year degree programme with 168-175 credits and have satisfied the credit requirements as given in Clause 4.*

***4-year UG Degree (Honours with Research):** Students who secure 75% marks and*

above in the first six semesters and wish to undertake research at the undergraduate level can choose a research stream in the fourth year. They should do a research project or dissertation under the guidance of a faculty member of the University. The research project/dissertation will be in the major discipline. The students who secure 168-175 credits, including 12 credits from a research project/dissertation, are awarded UG Degree (Honours with Research).

3. CHOICE BASED CREDIT SYSTEM (CBCS)

A credit refers to the weightage assigned to each course, as determined by the respective Board of Studies. All programmes are offered under the Choice Based Credit System (CBCS).

For a three-year undergraduate programme, a student shall earn a minimum of 128 credits and up to a maximum of 135 credits. An additional 40 credits may be earned upon successful completion of the fourth year.

Accordingly, a total of 168 to 175 credits shall be offered for the four-year undergraduate programme, in accordance with the UGC guidelines.

4. CURRICULAR STRUCTURE

The curricular structure of all undergraduate programmes shall comprise the following components:

- Major Courses
- Minor Courses
- Multidisciplinary Courses (MDC)
- Skill Enhancement Courses (SEC)
- Ability Enhancement Courses (AEC)
- Value Added Courses (VAC) *(common to all UG programmes)*
- Internship
- Project *(for three-year programmes)*
- Research Project / Dissertation *(for four-year programmes)*

4.1 Major Courses

Major Courses comprise the theory and practical components related to the core domain of the respective department. Students shall earn a minimum of 60 credits in Major Courses for the three-year programme and a minimum of 80 credits for the four-year programme.

4.1.1 Major – Track Specific Elective

- Students shall choose a Track-Specific Elective from the list of course buckets offered by their respective departments under the Major stream.
- Students must continue with the same track opted for in the previous semester to ensure progression and in-depth learning within the chosen specialization.
- Students who wish to switch to a different track may be permitted to do so, subject to fulfilling the prerequisite requirements prescribed for the selected course.

- As part of the Track-Specific Elective, students shall be permitted to undertake a Certification Course or a Mini Project relevant to the selected track, as approved by the Department.

4.2 Minor Courses

Students shall undertake courses from disciplinary or interdisciplinary minors, which include skill-based components. They shall earn a minimum of 24 credits in Minor Courses for the three-year programme and a minimum of 32 credits for the four-year programme.

4.2.1 Minor – Interdisciplinary Elective (Semester V & VI)

- Students may opt for an Interdisciplinary Minor from the list of approved courses offered by other Schools or Faculties, such as the Faculty of Arts, Science, Commerce and Management (FASCM), the Faculty of Engineering (FoE), Faculty of Performing Arts FPA), Faculty of Architecture, Design and Planning (FADP), Faculty of Pharmacy (FoP) other than their Major discipline.
- The Interdisciplinary Minor aims to broaden the student's academic exposure and enhance cross-disciplinary competencies relevant to emerging fields of study.
- Selection of the Interdisciplinary Minor shall be made in accordance with the guidelines prescribed by the Institution, and students shall meet any prerequisite requirements specified for the chosen course.

4.3 Multi-Disciplinary Courses (MDC)

There shall be four Multidisciplinary Courses (MDC) offered during the first four semesters of the undergraduate programme. Students are required to earn a minimum of 09 credits under this category.

The MDC component includes Tamil or any one of the Indian languages such as Hindi or Malayalam. Alternatively, a student may opt for a Foreign Language offered by the Institution.

A student who wishes to discontinue the opted Foreign Language may be permitted to switch to the language studied at the Class X (CBSE) / XII level, provided the change is made before the commencement of the End Semester Examinations (ESE).

4.4 Skill Enhancement Courses (SEC)

Skill Enhancement Courses (SEC) are offered to develop practical skills, hands-on experience, and soft skills that enhance the employability and entrepreneurial ability of students. A total of three SEC courses shall be offered during the first four semesters of the Undergraduate Programme, and students shall earn a minimum of 09 credits under this category.

4.5 Ability Enhancement Course (AEC)

Ability Enhancement Courses (AEC) are introduced to strengthen the communication skills, analytical thinking, and overall personality development of students. Three English courses shall be offered during the first three semesters of the Undergraduate Programme, and students are required to earn a minimum of 09 credits under this category.

4.6 Value Added Courses (VAC)

Value Added Courses (VAC) courses are offered to promote holistic development and enhance employability skills. Students shall earn a minimum of 09 credits under this category. The assessment of the VAC is based on Internal Evaluation.

4.7 Internship

Internship forms an essential part of the undergraduate curriculum, providing students with practical exposure and an opportunity to apply their academic learning in professional settings. It also aims to enhance employability and industry readiness.

Students exiting the programme after the first year or second year shall have completed an internship/apprenticeship of 2 credits or 4 credits, respectively, during the summer term following the corresponding academic year.

4.8 Project Work

The Project Work shall commence at the beginning of the sixth semester and may be carried out in the Department, Industry, or a Research Institute (National or International). The Project Report shall be submitted at the end of the semester. Projects may be done individually or in groups, under the supervision of a faculty member assigned by the Head of the Department (HoD). Each student shall earn 06 credits for the successful completion of the project.

Students undertaking projects outside the Department shall be guided by a Department Supervisor and a Co-supervisor from the host organization, and must submit an attendance certificate upon completion.

A Project Assessment Committee (PAC) shall conduct three reviews as part of internal assessment. Students shall present the progress and demonstration of their work before the PAC in the presence of their Supervisor.

4.9 Research Project /Dissertation

Students shall undertake the Research Project Work in the eighth semester in the Department, Industry, or a Research Institute (National or International). The Project Report / Dissertation shall be submitted at the end of the semester, and students are required to earn a minimum of 12 credits under this category.

For projects carried out outside the Department, a Department Supervisor and a Co-supervisor from the host organization shall jointly guide the student. An attendance certificate from the host institution must be submitted upon completion.

A Project Assessment Committee (PAC) shall oversee the evaluation process. The PAC shall schedule three reviews as part of the internal assessment. Students shall present their progress in the project and demonstrate before the PAC in the presence of their Supervisor.

5. ADVANCED LEARNERS AND ON-DEMAND EXAMINATION

Students who fulfill the following criteria are classified as *Advanced Learners*:

- Secure a minimum CGPA of 7.5 and maintain at least 75% attendance in every semester;
- Pass all courses in their first attempt.

If a student fails to meet any of the above conditions at any point in time, they will no longer be considered an Advanced Learner.

Advanced Learners are permitted to opt for on-demand examinations for courses in their forthcoming semester(s). Upon prior registration, they may appear for these examinations in advance and complete their courses ahead of the prescribed duration of study. This enables them to undertake a full-time Research Project, Internship, or Minor Project during the remaining period of their programme. Both Internal and External examinations for such courses will be conducted in the same manner as regular courses.

---

6. TRANSFER OF CREDITS EARNED THROUGH ONLINE PLATFORM / INTERNATIONAL STUDIES

Students are encouraged to enrol in courses offered through NPTEL, SWAYAM, SWAYAM Plus, and international institutions of higher learning, either in virtual or in-person mode. The equivalence of credits for such courses shall be determined by a *Course Equivalence Committee and Grade Equivalence Committee*.

The committee shall comprise the Dean of the Faculty as Chairperson, the Dean International Relations, the Head of the Department (HoD), and one faculty member nominated by the Vice-Chancellor as members. The recommendations of the committee shall be submitted for ratification and approval by the Academic Council.

6.1 MOOC Courses

6.1.1 Students are permitted to enrol in Massive Open Online Courses (MOOCs) offered through authorized platforms such as NPTEL, SWAYAM, or any other platform approved by the Institution.

6.1.2 A student may undertake a MOOC course *in lieu* of a prescribed semester course, provided that the course content and learning outcomes are appropriately mapped to the corresponding institutional syllabus and approved by the Department.

6.1.3 Students are allowed to complete the MOOC course prior to the commencement of the upcoming semester with the approval of the Department and the Institution.

6.1.4 In the event of non- completion or failure in the MOOC course, the student shall be required to register for and complete the corresponding regular course during the semester as per the prescribed curriculum.

6.1.5 Upon successful completion of the approved MOOC course, the earned credits shall be transferred, and the student shall be exempted from appearing for the End Semester Examination (ESE) in the equivalent institutional course.

6.1.6 If a student wishes to pursue a MOOC course outside their subject domain, they may be permitted to do so with prior approval. The credits earned from such courses shall be considered as additional credits and recorded in the Academic Bank of Credits (ABC). However, a student shall be permitted to earn a maximum of 4 additional credits through such courses during the entire duration of the programme

7. EXTRA CURRICULAR ACTIVITIES / COMMUNITY ENGAGEMENT REQUIREMENT

It is mandatory for every student to enroll in any one of the following Community Engagement Programmes during the first semester:

- National Service Scheme (NSS)
- National Cadet Corps (NCC)
- Youth Red Cross (YRC)
- Sports
- Approved Clubs and Societies

Each student shall complete a minimum of 30 hours of service under the selected Community Engagement Activity to earn 2 credits at the end of the second semester.

8. MEDIUM OF INSTRUCTION

The medium of instruction and examination shall be **English** for all courses, including seminar presentations and project/thesis/dissertation reports, except for Language I courses (Tamil / Hindi / Malayalam / French / German / Japanese), for which the medium shall be the respective language concerned.

9. FACULTY MENTOR

To assist students in planning their course of study and to provide general academic guidance, the Head of the Department (HoD) shall assign approximately twenty students to a faculty member, who will serve as their Faculty Mentor throughout the period of study.

The Faculty Mentor shall advise the students, monitor their academic performance and behaviour, and provide periodic counselling as required. The mentor shall also keep the parents informed about the progress of their mentees.

Further, the Faculty Mentor shall periodically display (once every 15 working days) the cumulative attendance details of their mentees on the Notice Board to enable students to track their attendance status and to ensure compliance with Clause 14 of these regulations.

10. ONLINE COURSE COORDINATOR

To assist students in planning their online courses and to provide general orientation, the Head of the Department (HoD) shall nominate an Online Course Coordinator.

The coordinator shall identify suitable courses relevant to the programme from various online platforms and periodically inform students about the available options.

The coordinator shall also orient students on the selection and enrolment process and monitor their participation and progress in the online courses.

11. CLASS COMMITTEE

Every class shall have a class committee consisting of teachers of the class concerned, student representatives (usually 2 boys and 2 girls) and a chairperson who is not teaching the class. It is like the 'Quality Circle' (more commonly used in industries) with the overall goal of improving the teaching- learning process. The functions of the class committee include:

- Solving problems experienced by students in the classroom and in the laboratories.
- Informing the student representatives, the academic schedule including the dates of assessments and the syllabus coverage for each assessment.
- Informing the student representatives the details of Regulations regarding weightage used for each assessment. In the case of practical courses (laboratory/ project work/seminar etc.) the breakup of marks for each experiment/exercise/module of work, should be clearly discussed in the class committee meeting and informed to the students.
- Analyzing the performance of the students of the class after each test and finding the ways and means of solving problems, if any.
- Identifying the slow learners, if any, and requesting the teachers concerned to provide some additional academic support.
- The class committee shall be constituted within the first week of each semester.
- The Chairperson of the class committee may convene the meeting of the class committee.
- The chairperson is required to prepare the minutes of every meeting, submit the same to the Dean through HoD within two days of the meeting and arrange to circulate it among the students and teachers concerned. If there are some points in the minutes requiring action by the Executive Council, the same shall be brought to the notice of the Registrar/VC by the HoD through Dean.
- The first meeting of the class committee shall be held within one week from the date of commencement of the semester, in order to inform the students about the nature and weightage of assessments within the framework of the Regulations. Two or three subsequent meetings may be held in a semester at suitable intervals.
- During these meetings the student members representing the entire class, shall meaningfully interact and express the opinions and suggestions of the other students of the class in order to improve the effectiveness of the teaching-learning process.

12. COURSE COMMITTEE FOR COMMON COURSES

Each common course offered to more than one programme or department shall have a “Course Committee” comprising all the teachers handling the common course with one of them nominated as Course Coordinator.

The nomination of the course coordinator shall be made by the Head of the Department / Dean depending upon whether all the teachers handling the common course belong to a single department or to various other departments.

The 'Course Committee' shall meet at least three times during the course in order to arrive at a common scheme of evaluation for the tests to ensure a uniform evaluation of the tests. If feasible, the course committee shall prepare a common question paper for the Internal Assessment Test(s).
Course codes for common courses shall be suffixed with the letter "**G**".

13. ATTENDANCE REQUIREMENTS FOR APPEARING FOR THE END SEMESTER EXAMINATION

a. Every student is expected to attend all classes and earn 100% attendance. However, a student shall secure not less than **75% attendance in each course**, taking into account the number of instructional hours prescribed for that course in the curriculum, to become eligible to appear for the End Semester Examination in that course.

b. A student who has secured attendance between **65.00% and 74.4%** (both included) in **a course or in all the courses of a semester**, due to medical reasons such as hospitalization, accident, or specific illness, may be granted exemption from the prescribed minimum attendance requirement and permitted to appear for the End Semester Examination, subject to the recommendation of the Head of the Department concerned and the approval of the Dean. The Head of the Department shall verify and certify the genuineness of the case before forwarding the recommendation. The student shall submit an undertaking jointly signed by the parent/guardian assuring that such a situation will not recur. This concession shall be granted only once during the entire period of study.

c. A student who has secured **less than 75% attendance in a course without a valid reason** shall not be permitted to appear for the End Semester Examinations in that course. However, the student shall be promoted to the next semester and shall be required to **earn a minimum of 75% attendance in the course concerned** by attending special classes conducted during the summer term or through any other mode prescribed by the Institution. Upon satisfying the attendance requirement, the student shall become eligible to appear for the End Semester Examinations of that course during a subsequent examination session.

d. A student who has secured **less than 55% attendance in more than 50% of the courses offered in a semester**, irrespective of the reason, shall not be permitted to appear for the End Semester Examinations of that semester. Such a student shall be required to redo the semester along with the subsequent batch of students, subject to the approval of the Dean concerned. However, the student shall be permitted to appear for arrear examinations, if any.

14. SCHEME OF EXAMINATION

Evaluation: Evaluation of the course comprises two parts such as the Continuous Internal Assessment (CIA) and the End Semester Examination (ESE) unless otherwise specified as only internal/only external.

The theory and practical courses shall carry a maximum of 100 marks. The evaluation of each course shall comprise two components, namely for Continuous Internal Assessment (CIA) and End Semester Examination (ESE), unless otherwise specified as an Internal Assessment Only course or under any other approved assessment pattern.
Theory and practical courses shall carry a maximum of 100 marks, of which 40 marks shall be allotted for Continuous Internal Assessment (CIA) and 60 marks for the End Semester Examination (ESE). For courses designated as Internal Assessment Only, the entire 100 marks shall be awarded through Continuous Internal Assessment. For Laboratory Integrated Theory (LIT) courses, the evaluation shall also carry a maximum of 100 marks., with 50 marks allotted for Continuous Internal Assessment and 50 marks for the End Semester Examination (ESE), in accordance with the assessment pattern prescribed for the respective LIT course.

15. PROCEDURE FOR AWARDING MARKS FOR INTERNAL ASSESSMENT

15.1 Attendance and Assessment: Every Faculty is required to maintain an **Attendance and Assessment Record (Log book)** which consists of attendance marked in each theory or practical or project work class, the test marks and the record of class work (topic covered), separately for each course

15.2 Continuous Internal Assessment (CIA): The performance of students in each course will be continuously assessed by the respective teachers as per the guidelines given below:

(a) Theory Courses

S. No.	Category	Maximum Marks
1.	Internal Component -I*	5
2.	Internal Component – II*	5
3.	Test – I (2 ½ Units)	15
4.	Test – II (2 ½ Units)	15
Total		**40**

**The internal assessment components for each course may be selected from the pool given below:*

Internal Components Pool: Assignments, solution to application-oriented problems using software, solving of GATE questions, projects, prototype development, flipped classroom activities, seminars, group activities, report writing, role play, quizzes, presentations, practical works, case studies, literature review, article review, etc.

(b) Practical Courses

S.No	Category	Maximum Marks
1.	Observation	10
2.	Continuous Assessment of Experiments *	10
3.	Model Examination	15
4.	Viva – Voce	5
Total		**40**

** Each practical exercise/experiment shall be evaluated on the day of practice, and 10 marks shall be awarded upon successful completion. The total marks will be scaled down to 10 at the end of the semester.*

Every practical Exercise / Experiment shall be evaluated based on the conduct of Exercise/ Experiment and records need to be maintained.

(c)-Laboratory Integrated Theory Courses (LIT)

Weightage of Continuous Internal Assessment and End Semester Examination marks will be 50% each. The distribution of marks for the theory and laboratory components in the Continuous Internal Assessments:

Type I - Lab Integrated Theory (LIT) Courses (L-T-P-C: 3-0-2-4)

Theory Component

S. No.	Category	Maximum Marks
1.	Test – I (2 ½ Units)	15
3.	Test – II (2 ½ Units)	15
Total		**30**

Practical Component

S.No	Category	Maximum Marks
1	Observation	5
2	Continuous Assessment of Experiments *	10
3	Model Exam	5
Total		**20**

** Each practical exercise/experiment shall be evaluated on the day of practice, and 10 marks shall be awarded upon successful completion. The total marks will be scaled down to 10 at the end of the semester.*

The End Semester Evaluation for **Type I – Lab Integrated Theory (LIT) Courses** shall consist of both **Theory** and **Practical** components. The Theory component shall be evaluated through an End-Semester Examination conducted for 100 marks, and the marks obtained shall be scaled down to 30 marks. The Practical component shall be evaluated through an End-Semester Practical Examination conducted for 50 marks, and the marks obtained shall be scaled down to 20 marks.

Thus, the External Evaluation for Type I – Lab Integrated Theory (LIT) Courses shall be for a total of 50 marks, comprising 30 marks from the Theory component and 20 marks from the Practical component.

Type II - Lab Integrated Theory (LIT) Courses (L-T-P-C: 1-0-4-3)

Continuous Internal Assessment

Theory & Laboratory Component – 50 Marks		
S. No.	**Category**	**Marks**
1	Theory - Test	20
2	Observation	10
3	Continuous Assessment of Experiments *	15
4	Mini Project / Viva Voce	5
	Total	**50**

** Each practical exercise/experiment shall be evaluated on the day of practice, and 10 marks shall be awarded upon successful completion. The total marks will be scaled down to 15 at the end of the semester*

For Value Added Courses: (2 credits)

S. No.	**Category**	**Maximum Marks**
1.	Continuous Assessment	25
2.	Activity	25
3.	Test	50
Total		100

For Value Added Courses: (1 credit)

S. No.	**Category**	**Maximum Marks**
1.	Field Visit	20
2.	Test	30
Total		50

For Skill Enhancement Courses (2 credit)

S. No.	**Category**	**Maximum Marks**
1.	Continuous Assessment	20
2.	Test	80
Total		100

15.3 Pattern of Question Paper for Continuous Internal Assessment I & II

Theory Courses:

Maximum Marks: 60* **Duration: 2.5 Hours**

Section	Description
Part – A	Short Answers - Answer ALL the Questions **(6 x 2 = 12 Marks)**
Part - B	Long Answers - 2 five-marks questions 'either – or' type Answer ALL the Questions **(3 x 6 = 18 Marks)**
Part - C	Essay type Answers– 3 ten-mark questions 'either – or 'type Answer ALL the Questions **(3 x 10 = 30 Marks)**

* *The 60 Marks will be scaled down to 15 Marks.*

16. END SEMESTER EXAMINATIONS (ESE)

16.1 End Semester Examinations (ESE) will be held at the end of each semester for each course, for 100 marks

16.2 Pattern of End Semester Examination Question Paper:

Theory Courses:

Maximum Marks: 100* **Duration: 3 Hours**

Section	Marks
Part – A	Short Answer - Answer ALL the Questions (10 x 2 = 20 Marks)
Part - B	Long Answer – 5 Six Mark questions 'either – or' type Answer ALL the Questions (5 x 6 = 30 Marks)
Part - C	Essay type Answer– 5 Ten Mark questions 'either – or' type Answer ALL the Questions (5 x 10 = 50 Marks)

*****_The 100 Marks will be scaled down to 60 Marks._

Practical Courses: There shall be combined evaluation by the Internal and External examiners. The pattern of distribution of marks shall be as given below:

S. No.	Category	Maximum Marks
1.	Experiment - 1	20
2.	Experiment – 2	20
3.	Viva-Voce	10
4.	Record	10
Total		**60**

Type I - Lab Integrated Theory (LIT) Courses (L-T-P-C: 3-0-2-4)

S. No.	Category	Maximum Marks
1.	Experiment - 1	20
2.	Experiment – 2	20
3.	Viva-Voce	05
4.	Record	05
Total		**50**

**For Laboratory Integrated Theory Courses 50 Marks will be scaled down to 20 marks.*

Type II - Lab Integrated Theory (LIT) Courses (L-T-P-C: 1-0-4-3)

S.No.	Category	Maximum Marks
1.	Record	10
2.	Experiment - I	40
3.	Experiment – II	40
4.	Viva – Voce	10
	Total	**100**

**For Laboratory Integrated Theory Courses 100 Marks will be scaled down to 50 marks.*

Record Notebooks for Practical Examination

Candidates taking the practical examination should submit a prescribed Bonafide Record Notebook for the practical examination; failing which the candidate will not be permitted to take the practical examination.

In case of failures in Practical Examination, the marks awarded for the Record at the time of first appearance of the Practical Examination shall remain the same at the subsequent appearance also by the candidate.

16.3. PROJECT WORK – Evaluation Process

16.3.1. Final year project work shall normally be carried out in-house. However, in special cases, if a student secures a project in a government organization or a private/public sector company, permission may be granted to undertake the project in that institution, research organization, or industry.

The evaluation of Project Phase-I shall be conducted through Continuous Internal Assessment (three reviews). Continuous Assessment shall carry a weightage of 40 % marks

The distribution of marks for the Continuous Internal Assessment (CIA) is given below:

Maximum Marks: 80

S. No.	Category	Maximum Marks
1.	Problem Selection	20
2.	Progress of the work (3 reviews) (5+10+10)	30
3.	Presentation of the work (3 reviews) (5+10+10)	30
Total		**80**

The evaluation of Project Phase II shall be based on the assessment of the project thesis report and a viva voce examination carrying a combined weightage of 60 % marks.

The distribution of marks for the End Semester Examination is given below:

Maximum Marks: 120*

S. No.	Category	Maximum Marks
1.	Project Report *	60
2.	Project Presentation *	40
3.	Viva Voce*	20
	Total	**120**

***Combined valuation of Internal and External Examiners.*

16.3.2 The project report, prepared in accordance with the approved guidelines and duly signed by the supervisor(s), shall be submitted to the Head of the Department (HoD).

16.3.3 The evaluation of the project shall be based on the submitted project report and a *viva voce* examination conducted by a panel consisting of the supervisor, who shall serve as the Internal Examiner, and an External Examiner appointed by the Controller of Examinations. In the absence of the supervisor, the HoD shall act as the Internal Examiner.

16.3.4 If a candidate fails to submit the project report on or before the date specified by the Examination Section, the candidate shall be deemed to have failed in the Project Work and shall re-enrol for the same in a subsequent semester.
If a candidate fails in the *viva voce* examination, he/she shall resubmit the project report within 30 days from the date of declaration of results. The resubmitted report shall be evaluated in the subsequent semester.

16.3.5 A copy of the approved project report, after successful completion of the viva voce examination, shall be submitted to and retained in the KAHE Library.

17. PASSING REQUIREMENTS

17.1 Passing minimum: A candidate needs to secure a minimum of **50% of the maximum marks** in the **Continuous Internal Assessment (CIA)** and **50% of the maximum marks** in the **End Semester Examination (ESE)** separately to be declared to have passed the course.

17.2 If a candidate fails to secure a pass in a particular course (either CIA or ESE or Both) as per clause 17.1, it is mandatory that the candidate has to register and reappear for the examination in that course during the subsequent semester when examination is conducted for the same till, he / she receives pass both in CIA and ESE (vide Clause 2.1).

17.3 The CIA marks secured by the candidate in the first passed attempt shall be retained by the Office of the Controller of Examinations and considered valid for all subsequent attempts till the candidate secures a pass in ESE.

17.4 Candidates who fail the Internal Assessment shall be permitted to reappear for the Internal Assessment in the subsequent semesters by taking the prescribed tests and resubmitting the required internal assessment components.

The distribution of marks for the Internal Assessment shall be as given below.

S. No.	Category	Maximum Marks
1.	Internal Component 1	5
2.	Internal Component 2	5
3.	Test*	30
	Total	**40**

** Tests shall be conducted in the ESE pattern for 100 marks and is scaled down to 30 marks.*

Type I - Lab Integrated Theory (LIT) Courses (L-T-P-C: 3-0-2-4)

S. No.	Category	Maximum Marks
1.	Test*	30
2.	Observation	5
3.	Model Examination	15
	Total	**50**

** Test shall be conducted in the CIA pattern for 60 marks and scaled down to 30 marks.*

Type II - Lab Integrated Theory (LIT) Courses (L-T-P-C: 1-0-4-3)

Theory & Laboratory Component – 50 Marks		
S. No.	**Category**	**Marks**
1	Test *	20
2	Observation	10
3	Model Examination	20
	Total	**50**

** Test shall be conducted in the CIA pattern for 60 marks and scaled down to 20 marks.*

The re-assessment shall be completed within 6 weeks from the date of reopening of the subsequent semester.

17.5 A Candidate who is absent in ESE in a Course / Practical / Project Work after having enrolled for the same shall be considered to have Absent (AAA) in that examination.

---

18. ONLINE EXAMINATIONS

The students who are going for Project / Internship / Coursework at National level are permitted to write their CIA test through Online Mode and ESE in Offline/Online mode. When they go for an International Project / Internship / Coursework, both the CIA and ESE shall be conducted through online mode.

---

19. IMPROVEMENT OF MARKS IN THE COURSES ALREADY PASSED

Candidates who wish to improve the marks secured in a course passed in their first attempt may reappear once, only for the End Semester Examination (ESE), in the subsequent semester. **The improved marks shall be considered for classification but not for ranking.** If no improvement is achieved, the marks awarded earlier shall remain unchanged.

---

20. AWARD OF LETTER GRADES

All assessments of a course will be done on an absolute mark basis. However, for the purpose of reporting the performance of a candidate, letter grades, each carrying certain number of points, will be awarded as per the range of total marks (out of 100) obtained by the candidate in each course as detailed below:

Letter grade	Marks Range	Grade Point	Description
O	91-100	10	OUTSTANDING
A+	81 - 90	9	EXCELLENT
A	71 - 80	8	VERY GOOD
B+	61 - 70	7	GOOD
B	56 - 60	6	AVERAGE
C	50 - 55	5	PASS
RA	Below 50	-	REAPPEARANCE
AAA	-	-	ABSENT

---

21. GRADE SHEET

After the declaration of the results, Grade Sheets will be issued to each student which will contain the following details:

i. The list of courses enrolled during the semester and the grade scored.
ii. The Grade Point Average (**GPA**) for the semester and
iii. The Cumulative Grade Point Average (**CGPA**) of all courses enrolled from first semester onwards.
iv. Remark on Extension Activities (only in the 6th Semester Grade Sheet)

GPA of a Semester and CGPA of a programme will be calculated as follows.

$$GPA = \frac{\Sigma (Ci \times GPi)}{\Sigma Ci} \qquad \frac{\text{Sum of (Credits for each course * Grade Points)}}{\text{Total Credits Registered in Semester}}$$

$$CGPA = \frac{\Sigma (\text{GPA of each Semester * Total Credits in that Semester})}{\text{Total Credits across ALL Semesters}}$$

were,

Ci is the credit fixed for the course 'i' in any semester
GPi is the grade point obtained for the course 'i' in any semester
'n' refers to the Semester in which such courses are credited.

Note: RA grade will be excluded for calculating **GPA** and **CGPA**.

---

22. REVALUATION

A candidate may apply for revaluation or re-totalling of his/her semester examination answer scripts (theory courses only) within two weeks from the date of declaration of results, on payment of the prescribed fee. The application, in the prescribed format, shall be submitted to the Controller of Examinations through the Head of the Department (HoD).

A candidate may apply for revaluation for a maximum of five courses at a time. The Controller of Examinations shall arrange for the revaluation, and the results shall be communicated to the candidate through the concerned HoD. Revaluation shall not be permitted for Supplementary Examinations.

23.TRANSPARENCY AND GRIEVANCE COMMITTEE

As per Clause 22, revaluation and re-totalling are permitted upon representation. A candidate may obtain a photocopy of the evaluated answer script on payment of the prescribed fee.

- If the candidate has any grievance, it may be represented to the Grievance Committee, which shall consist of:
- The Dean of the Faculty (if the Dean is also the HoD, a Dean from another Faculty nominated by Vice Chancellor)

- The Head of the Department concerned
- The faculty member handling the course
- A Dean from another discipline nominated by Vice Chancellor, and
- The Controller of Examinations.

If the Committee is satisfied that the grievance is genuine, the answer script may be sent for external evaluation. The marks awarded by the External Examiner shall be final. The candidate shall pay the prescribed fee for the same.

---

24. ELIGIBILITY FOR THE AWARD OF THE DEGREE

A student shall be declared eligible for the conferment of the Degree if he/she satisfies the following requirements:

24.1 Successfully completes all components prescribed under the Curriculum and Credit Framework for Undergraduate Programmes of the UGC and earns the minimum required credits as specified in the curriculum of the respective programme within the stipulated period (vide Clause 2.1).

24.2 Has no pending disciplinary enquiry or action against him/her.

24.3 The award of the Degree is approved by the Executive Council.

---

25. CLASSIFICATION OF THE DEGREE AWARDED

25.1 Candidates who qualify for the award of the Degree (vide Clause 24), having passed all courses in their first appearance within the specified minimum number of semesters and securing a CGPA of not less than 8.0, shall be declared to have passed with **First Class with Distinction.**

25.2 Candidates who qualify for the award of the Degree (vide Clause 24), having passed all courses within the maximum number of semesters specified (vide Clause 2.1) and securing a CGPA of not less than 6.5, shall be declared to have passed with **First Class**.

25.3 Candidates who qualify for the award of the Degree (vide Clause 24) but do not fall under Clauses 25.1 and 25.2 shall be declared to have passed with **Second Class.**

---

26. RANKING

Candidates who qualify for the UG Degree Programme by passing all examinations in the first attempt and within the minimum prescribed duration of the programme (from Semester I through Semester VI/VIII, as applicable) shall be eligible for ranking.
Ranking shall be limited to 10% of the total number of candidates who have qualified in the particular programme, subject to a maximum of 10 ranks.

---

27. SUPPLEMENTARY EXAMINATION

Supplementary Examination will be conducted only for the final semester students within ten days from the date of publication of results for students who have failed in one theory course only. This is applicable only for the ESE component of the course which the student failed. Such students shall apply with prescribed fee to the Controller of Examinations within the stipulated time.

28. DISCIPLINE

28.1 If a student indulges in malpractice in any of the Internal / External Examinations he / she shall be liable for punitive action as prescribed by the KAHE from time to time.
28.2 Every student is required to observe discipline and decorous behavior both inside and outside the campus and not to indulge in any activity which will tend to bring down the prestige of the KAHE. The erring students will be referred to the disciplinary committee constituted by the KAHE, to enquire into acts of indiscipline and recommend the disciplinary action to be taken.
28.3 A student who is placed under suspension for involvement in any disciplinary misconduct shall be required to complete an additional 30 hours of service under NSS / Yoga as a prerequisite for revocation of suspension.

29. KAHE ENTRANCE EXAMINATION

At the end of Sixth / Eighth Semester, the KAHE Entrance Examinations will be conducted for those candidates who are aspiring for Higher Education (PG / Ph.D).

30. REVISION OF REGULATION AND CURRICULUM

Karpagam Academy of Higher Education may from time-to-time revise, amend or change the Regulations, Scheme of Examinations and Syllabi, if found necessary.

31. STRUCTURE OF UG PROGRAMME

The Semester-wise and Broad Course Category-wise Distribution of credits of the Undergraduate Programme:

KARPAGAM ACADEMY OF HIGHER EDUCATION, COIMBATORE.

FACULTY OF ARTS, SCIENCE, COMMERCE AND MANAGEMENT

UG PROGRAMME - CBCS CURRICULUM FRAMEWORK

(2026 – 2027 Batch and onwards)

SEM	Major (Core Displine)		Inter Disciplinary (Minor Courses)	Ability Enhancement Course	Skill Enhancement Course	Muitldisciplinary Courses	Value Added Course	Intership	Research Projects	Total Credit
	Major	DSE	Minor	AEC	SEC	MDC	VAC			
	C = L / T / P	C = L / T / P	C = L / T / P	C = L / T / P	C = L / T / P	C = L / T / P	C = L / T / P	C = L / T / P	C = L / T / P	
	3 or 4 Credit	4 Credit	4 Credit	3 Credit	2 Credit	3 Credit	1 or 2 Credit	2 Credit		
I	Major - I Major - II		Minor - I	Language II – Communicative English	SEC - I - Aptitude 1 (Amcat) Level -1	Language I (Regional/ Foreign Languages)	VAC - I			21
II	Major - III Major - IV		Minor - II	Language II – Professional English	SEC - II - Aptitude 2 (Amcat) - Level -2	Language I (Regional/ Foreign Languages)	VAC - II VAC- III -Community Engagement-1C			22
Exit with UG Certificate (in field of Study /Discipline) Securing 43 Credits										43
III	Major - V Major Elective - I (Track-specific) OB-CFC		Minor - III	Language II – Technical English	SEC - III - Aptitude 3 (Amcat Test) - Level 3	Language I (Regional/ Foreign Languages)	VAC - IV VAC - V- EVS-1C	Internship -I		24
IV	Major -VI Major - VII Major Elective - 2 (Track-specific) Industry Integrated Course-2 (Track Specific) -2		Minor- IV		Language II – Applied English for Employability - 3C	Language I (Regional/ Foreign Languages)				23
Exit with UG Diploma (in field of Study /Discipline) Securing 90 credits										90
V	Major - VIII Major Elective - III (Track-specific) Industry Integrated Course - III (Track Specific) - 2	Major - IX	Minor V: Interdisciplinary - Elective				VAC - VI- UHV-1C	Internship-II		20
VI	Major- X	Major- XI	Minor VI: Interdisciplinary - Elective						Project (Industry / Research) - 6	18
Exit with a Bachelor's (UG) Degree (in field of Study /Discipline) Securing 128 credits										128
VII	Major- XII Major – XIII - Major - XIII (Lab)	DSE XIV DSE -XV	Minor A							20
VIII	Major- XVI (A&B)	DSE XVII (A) DSE XVIII (A)	Minor B (A)						Project Research Project	20
Exit with a Bachelor's (UG) Degree (in field of Study /Discipline) Hons. / Hons with Research . Securing 168 credits										168

Annexure – I

S.No.	Programme	Subject	Eligibility
1.	B. Sc.	Biotechnology	Candidates who have passed Higher Secondary Education (XII) or any equivalent examination conducted by a State Government, University, or Board under the 10+2 pattern, with **Biology, Botany, Zoology, or Chemistry** as subjects at the Higher Secondary level.
2.	B. Sc.	Computer Science	Candidates who have passed Higher Secondary Education (XII) or any equivalent examination conducted by a State Government, University, or Board under the 10+2 pattern, or those who hold a 3-year diploma after 10th grade, with **Computer Science or Mathematics** as one of the subjects.
3.	B. Sc.	Microbiology	Candidates who have passed Higher Secondary Education (XII) or any equivalent examination conducted by a State Government, University, or Board under the 10+2 pattern, with **Biology, Botany, Zoology, or Chemistry** as subjects at the Higher Secondary level.
4.	B. Sc.	Information Technology	Candidates who have passed Higher Secondary Education (XII) or any equivalent examination conducted by a State Government, University, or Board under the 10+2 pattern, or those who hold a 3-year diploma after 10th grade, with **Computer Science or Mathematics** as one of the subjects.
5.	B. Sc.	Computer Technology	Candidates who have passed Higher Secondary Education (XII) or any equivalent examination conducted by a State Government, University, or Board under the 10+2 pattern, or those who hold a 3-year diploma after 10th grade, with **Computer Science or Mathematics** as one of the subjects.
6.	B.Sc.	Computer Science (Cognitive Systems)	Candidates who have passed Higher Secondary Education (XII) or any equivalent examination conducted by a State Government, University, or Board under the 10+2 pattern, or those who hold a 3-year diploma after 10th grade, with **Computer Science or Mathematics** as one of the subjects.
7.	B.Sc.	Computer Science (Artificial Intelligence and Data Science)	Candidates who have passed Higher Secondary Education (XII) or any equivalent examination conducted by a State Government, University, or Board under the 10+2 pattern, or those who hold a 3-year diploma after 10th grade, with **Computer Science or Mathematics** as one of the subjects.

8.	BCA	Computer Application	Candidates who have passed Higher Secondary Education (XII) or any equivalent examination conducted by a State Government, University, or Board under the 10+2 pattern, or those who hold a 3-year diploma after 10th grade, with **Computer Science or Mathematics** as one of the subjects.
9.	B. Com.	Commerce	Candidates who have passed Higher Secondary Education (XII) or any equivalent examination conducted by a State Government, University, or Board under the 10+2 pattern, with **Commerce** as a subject under the academic or vocational stream at the Higher Secondary level.
10.	B.Com (CA)	Commerce with Computer Applications	Candidates who have passed Higher Secondary Education (XII) or any equivalent examination conducted by a State Government, University, or Board under the 10+2 pattern, with **Commerce** as a subject under the academic or vocational stream at the Higher Secondary level.
11.	B. Com. (PA)	Commerce with Professional Accounting	Candidates who have passed Higher Secondary Education (XII) or any equivalent examination conducted by a State Government, University, or Board under the 10+2 pattern, with **Commerce** as a subject under the academic or vocational stream at the Higher Secondary level.
12.	B. Com. (BPS)	Commerce with Business Process Services	Candidates who have passed Higher Secondary Education (XII) or any equivalent examination conducted by a State Government, University, or Board under the 10+2 pattern, with **Commerce** as a subject under the academic or vocational stream at the Higher Secondary level.
13.	B.B.A.	Business Administration	Candidates who have passed Higher Secondary Education (XII) or any equivalent examination conducted by a State Government, University, or Board under the 10+2 pattern, with **Commerce** as a subject under the academic or vocational stream at the Higher Secondary level.
14.	B. Com	Financial Analytics	Candidates who have passed Higher Secondary Education (XII) or any equivalent examination conducted by a State Government, University, or Board under the 10+2 pattern, with **Commerce** as a subject under the academic or vocational stream at the Higher Secondary level.
15.	B. Com	International Accounting and Finance	Candidates who have passed Higher Secondary Education (XII) or any equivalent examination conducted by a State Government, University, or Board under the 10+2 pattern, with **Commerce** as a subject under the academic or vocational stream at the Higher Secondary level.

16.	B. Com	Information Technology	Candidates who have passed Higher Secondary Education (XII) or any equivalent examination conducted by a State Government, University, or Board under the 10+2 pattern, with **Commerce** as a subject under the academic or vocational stream at the Higher Secondary level.
17.	B. Sc.	Computer Science (Cyber Security)	Candidates who have passed Higher Secondary Education (XII) or any equivalent examination conducted by a State Government, University, or Board under the 10+2 pattern, or those who hold a 3-year diploma after 10th grade, with **Computer Science or Mathematics** as one of the subjects.
18.	B. Com	FinTech.	Candidates who have passed Higher Secondary Education (XII) or any equivalent examination conducted by a State Government, University, or Board under the 10+2 pattern, with **Commerce** as a subject under the academic or vocational stream at the Higher Secondary level.
19.	B.Sc.	Computer Science (Artificial Intelligence and Machine Learning)	Candidates who have passed Higher Secondary Education (XII) or any equivalent examination conducted by a State Government, University, or Board under the 10+2 pattern, or those who hold a 3-year diploma after 10th grade, with **Computer Science or Mathematics** as one of the subjects.

Karpagam Innovation and Incubation Council (KIIC)

(A Section 8 Company)

Based on the 2019 National Innovation and Startup Policy and the 2019–2023 Tamil Nadu Startup Policy, KIIC has recommended to the KAHE students who are affiliated with the KIIC that it be incorporated in the university Program Regulations 2023-24 and implement from this academic year.

Norms to Student Start-Ups

a) Any (UG/PG /(Ph.D.) Research scholars, student, right from the first year of their program is allowed to set a startup (or) work part time/ full time in a startup or work as intern in a startup

b) Any (UG/PG / (Ph.D.) Research scholars) student right from the first year of their program is allowed to earn credit for working on Innovative prototypes/business Models/ Pre incubation (case to case basis).

c) Start Up activities will be evaluated based on the guidelines being given by the expert committee of the KIIC

d) Student Entrepreneurs may use the address of incubation center (KIIC) to register their venture while studying in KAHE.

e) Students engaged in startups affiliated with the KIIC or those who work for them may be exempted from KAHE's attendance requirements for academic courses under current regulations, up to a maximum of 30% attendance per semester, including claims for ODs and medical emergencies Potential Students who have been incubated at KIIC may be permitted to take their University semester exams even if their attendance is below the minimum acceptable percentage, with the proper authorization from the head of the institution.
(On case-to-case basis depends upon the applicability strength, societal benefits and quality of the Innovation and Subsequent engagement of the students with the/ her business)

f) Any Students Innovators/entrepreneurs are allowed to opt their startup in place mini project /major project, /seminar and summer training etc. (In plant training, Internship, value added Course.). The area in which the student wishes to launch a Startup may be interdisciplinary or multidisciplinary.

g) Student's startups are to be evaluated by Expert committee, formed by KIIC and KAHE

Guide lines to award Credits/ Marks to a Student startup

Student's startup stages are divided into five phases and these startup phases can be considered equally in place of the course title as mentioned below with the same credits allotted to the course title in a University curriculum.

Sl. No.	Description/Startup phases	In place of the Subject / Course title	Grades/Credits /Marks
1	Idea stage/Problem Identification	Seminar	Same Marks/Credits can be awarded that are listed in the course title's curriculum for the respective startup phases.
2	Proof of Concept (POC) /Solution development	In-plant training /Internship	
3	Product Development (Lab scale) /Prototype Model/ Company Registered	Mini Project/ Value added Course	
4	Validation/Testing	Main Project phase I	
5	Business Model/Ready for Commercialization/Implementation	Main Project phase II,	

PREAMBLE

The convergence of commerce and information technology has transformed the modern business landscape, creating a demand for professionals who possess expertise in business management, accounting, finance, and digital technologies. The rapid advancement of artificial intelligence (AI), data analytics, enterprise resource planning (ERP), financial technology (FinTech), e-commerce, cloud computing, and digital business solutions has redefined organizational operations, enabling businesses to improve efficiency, innovation, decision-making, and global competitiveness.

The B.Com. Information Technology programme is designed to provide students with a strong foundation in commerce, accounting, finance, taxation, economics, business management, and information technology. The curriculum integrates business knowledge with emerging technologies through courses in web designing, Java programming, R programming, artificial intelligence, financial technology, digital banking, business analytics, and e-commerce, complemented by laboratory courses, internships, mini projects, and research-based projects. The programme equips graduates with analytical, technical, digital, communication, and problem-solving skills required to address contemporary business challenges. It prepares students for successful careers in finance, banking, business analytics, information technology-enabled services (ITeS), e-commerce, digital business, consulting, entrepreneurship, and corporate organizations, while also providing a strong foundation for higher education, professional certifications, research, and lifelong learning in the digital economy.

PROGRAMME EDUCATIONAL OBJECTIVES (PEOs)

PEO I : Graduates will acquire knowledge in stock market, accounting, taxation, finance and management concepts and apply it in business to become qualified professionals.

PEO II : Graduates will possess the professional skills and competence to perform effectively in higher-level roles, studies, jobs and entrepreneurial ventures.

PEO III : Graduates will develop a lifelong learning by applying the gain knowledge and skills in research and practice.

PEO IV : Graduates will demonstrate high standard of ethical conduct and become socially responsible citizens contributing to the sustainable growth of the career and the community.

PROGRAMME OUTCOMES (POs):

By the end of the programme, our graduates will

1. **Disciplinary knowledge:** Possess a profound understanding of the foundational concepts, theories, methodologies, and practices within the discipline of Information Technology.
2. **Communication Skills:** Emerge as confident communicators capable of articulating complex concepts, advocating for their viewpoints, and engaging in meaningful discourse to address contemporary issues and drive positive change.
3. **Critical thinking:** Master advanced critical thinking skills, analyzing complex issues, and solving problems through evidence-based decision-making.
4. **Problem solving:** Excel in problem-solving, applying analytical techniques and creative thinking to address complex challenges in the field of Information Technology.
5. **Analytical reasoning:** Emerge as adept analytical thinkers, equipped to tackle challenging problems, make informed decisions, and contribute to the advancement of knowledge in the field of Information Technology.
6. **Research-related skills:** Demonstrate proficiency in data analysis, critical appraisal, and ethical research practices, contributing original insights to the advancements in Information Technology.
7. **Cooperation/Team work:** Develop strong cooperation and teamwork skills, collaborating effectively with diverse peers to achieve common goals.
8. **Scientific reasoning:** Excel in scientific reasoning, applying logic and evidence to analyze phenomena, solve problems, and advance knowledge in the area of Information Technology.
9. **Reflective thinking:** Master reflective thinking, fostering self-awareness and insight to evaluate experiences, perspectives, and actions critically.
10. **Information/digital literacy:** Excel information and digital literacy, adeptly locating, evaluating, and ethically using diverse sources of information
11. **Self-directed learning:** Be empowered individuals to take ownership of their educational journey, fostering autonomy, critical thinking, and adaptability.
12. **Multicultural competence:** Be enabled to effectively navigate diverse contexts, fostering empathy, understanding, and collaboration across cultures.
13. **Moral and ethical awareness/reasoning:** Possess the capacity to critically analyze ethical issues from various perspectives and apply ethical principles to real-world situations.
14. **Leadership readiness/qualities:** Develop the skills and attributes necessary to effectively lead and inspire others.
15. **Lifelong learning:** Foster a commitment to lifelong learning by cultivating curiosity, critical thinking, and a growth mindset.

PROGRAMME SPECIFIC OUTCOMES (PSOs)

1. Graduates will gain lifelong learning practice by identifying, formulating, and analysing complex business and stock market problems to reach substantiated conclusions through research considering the changing environmental factors.
2. Graduate will demonstrate legal, ethical code and socially sustainable code of conduct in both personal and professional decision-making process pertaining to their career.

MAPPING of PEOs and POs

POs	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	PSO1	PSO2
PEO I	X	X	X	X	X		X			X						X	X
PEO II		X	X	X	X		X			X	X	X		X		X	X
PEO III			X			X			X	X	X				X	X	
PEO IV		X				X	X					X	X	X	X		X

KARPAGAM ACADEMY OF HIGHER EDUCATION

FACULTY OF ARTS, SCIENCE, COMMERCE AND MANAGEMENT

DEPARTMENT OF COMMERCE WITH INFORMATION TECHNOLOGY

UG PROGRAM (CBCS) – B.Com. Information Technology

(2026–2027 Batch and onwards)

Semester I											
Code No.	**Name of the Course**	**L**	**T**	**P**	**C**	**Hours/ Week**	**CIA**	**ESE**	**Total**	**Category**	**Page No.**
Theory Courses											
26LTU101G / 26LHU101G / 26LMU101G / 26LFU101G / 26LGU101G / 26LJU101G	Language: Tamil – I / Hindi – I / Malayalam – I / French – I / German – I / Japanese – I	3	0	0	3	3	40	60	100	MDC	1
26ENU101G	English I – Communicative English	3	0	0	3	3	40	60	100	AEC	16
Theory Cum Laboratory Courses											
26CMU141G	Principles of Accountancy	1	0	4	3	5	50	50	100	Major	19
26CCU141G	Computer Application in Business	1	0	4	3	5	50	50	100	Major	22
26MAU144G	Business Mathematics and Statistics	3	0	2	4	5	50	50	100	Minor	26
Two Credit Courses											
26SEC101G	Logical Reasoning and Analytical Skills	2	0	0	2	2	100	0	100	SEC	29
26VACXXXG	Value Added Course – I	1	0	2	2	3	100	0	100	VAC	32
Total		**14**	**0**	**12**	**20**	**26**	**430**	**270**	**700**		
Semester II											
Code No.	**Course**	**L**	**T**	**P**	**C**	**Hours/ Week**	**CIA**	**ESE**	**Total**	**Category**	**Page No.**
Theory Courses											
26LTU201G / 26LHU201G / 26LMU201G / 26LFU201G / 26LGU201G / 26LJU201G	Language: Tamil – II / Hindi – II / Malayalam – II / French – II / German – II / Japanese – II	3	0	0	3	3	40	60	100	MDC	57
26ENU201G	English II - Professional English	3	0	0	3	3	40	60	100	AEC	73
26CMU201G	Higher Financial Accounting	3	1	0	4	4	40	60	100	Major	75
26CIU201	Micro Economics	4	0	0	4	4	40	60	100	Minor	77
Theory Cum Laboratory Courses											
26CIU241G	Web designing	1	0	4	3	5	50	50	100	Major	80
Two Credit Courses											
26SEC201G	Numerical Ability and Quantitative Aptitude	2	0	0	2	2	100	0	100	SEC	84

26VACXXXG	Value Added Course – II	1	0	2	2	3	100	0	100	VAC	87
One Credit Course											
26VAC211G	Community Engagement and Social Responsibility	1	0	0	1	1	50	0	50	VAC	109
Total		**18**	**1**	**6**	**22**	**25**	**460**	**290**	**750**		

Semester III

Code No.	Course	L	T	P	C	Hours/Week	CIA	ESE	Total	Category
Theory Courses										
26LTU301G / 26LHU301G / 26LMU301G / 26LFU301G / 26LGU301G / 26LJU301G	Language: Tamil – III / Hindi – III / Malayalam – III / French – III / German – III / Japanese – III	3	0	0	3	3	40	60	100	MDC
26ENU301G	English III - Technical English	3	0	0	3	3	40	60	100	AEC
26CMU301G	Corporate Accounting	3	1	0	4	4	40	60	100	Major
26XXX302G	Professional Elective – I	4	0	0	4	4	40	60	100	Major
Theory Cum Laboratory Courses										
26CCU341G	MY SQL	1	0	4	3	5	50	50	100	Minor
Two Credit Courses										
26SEC301G	Verbal Ability and English Communication	2	0	0	2	2	100	0	100	SEC
26VACXXXG	Value Added Course – IV	1	0	2	2	3	100	0	100	VAC
26CIU391	Internship – I	15 Days			2	0	100	0	100	Internship
One Credit Course										
26VAC311G	Environmental Studies	1	0	0	1	1	50	0	50	VAC
Total		**18**	**1**	**6**	**24**	**25**	**560**	**290**	**850**	

Semester IV

Code No.	Course	L	T	P	C	Hours/Week	CIA	ESE	Total	Category Page No.
Theory Courses										
26LTU401G / 26LHU401G / 26LMU401G / 26LFU401G / 26LGU401G / 26LJU401G	Language: Tamil – IV / Hindi – IV / Malayalam – IV / French – IV / German – IV / Japanese – IV	3	0	0	3	3	40	60	100	MDC
26ENU401G	English IV – Applied English for Employability	3	0	0	3	3	40	60	100	SEC
26CCU401G	Principles of Taxation	3	1	0	4	4	40	60	100	Major
26XXX402G	Professional Elective – II	4	0	0	4	4	40	60	100	Major
26CMU403AG (NOC25_MG115) / 26CMU403BG (BCOS-184)	Marketing Management/ E-Commerce***	4	0	0	4	4	40	60	100	Minor

Theory Cum Laboratory Courses										
26CIU441G	Java Programming	1	0	4	3	5	50	50	100	Major
Laboratory Course										
26CIU411	Mini Project - I	0	0	0	2	0	100	0	100	Major
Total		**18**	**1**	**4**	**23**	**23**	**350**	**350**	**700**	
Semester V										
Code No.	**Course**	**L**	**T**	**P**	**C**	**Hours/Week**	**CIA**	**ESE**	**Total**	**Category**
Theory Courses										
26CMU501G	Cost Accounting	3	1	0	4	4	40	60	100	Major
26XXX502G	Professional Elective – III	4	0	0	4	4	40	60	100	Major
26XXXOEXXXG	Open Elective – I	4	0	0	4	4	40	60	100	Minor
Theory Cum Laboratory Courses										
26CIU541	R Programming	1	0	4	3	5	50	50	100	Major
Laboratory Course										
26CIU511	Mini Project – II	0	0	0	2	0	100	0	100	Major
Two Credit Course										
26CIU591	Internship – II	15 Days			2	0	100	0	100	Internship
One Credit Course										
26VAC501G	Universal Human Values and Cyber Security	1	0	0	1	1	50	0	50	VAC
Total		**13**	**1**	**4**	**20**	**18**	**420**	**230**	**650**	
Semester VI										
Code No.	**Course**	**L**	**T**	**P**	**C**	**Hours/Week**	**CIA**	**ESE**	**Total**	**Category**
Theory Courses										
26CCU601G	Accounting for Decision Making	3	1	0	4	4	40	60	100	Major
26XXXOEXXXG	Open Elective – II	4	0	0	4	4	40	60	100	Minor
Theory Cum Laboratory Courses										
26CCU641G	Basis of Research	1	0	4	3	5	50	50	100	Major
26CIU641G	Artificial Intelligence	1	0	4	3	5	50	50	100	Major
Project - I										
26CIU691	Project – I	0	0	12	6	12	80	120	200	Major
Total		**9**	**1**	**20**	**20**	**30**	**260**	**340**	**600**	
SIX SEM TOTAL		**90**	**5**	**52**	**129**	**147**	**2480**	**1770**	**4250**	
*- Course Code and Course Name subject to change with respect to NPTEL or SWAYAM										

Semester VII										
Code No.	**Course**	**L**	**T**	**P**	**C**	**Hours/ Week**	**CIA**	**ESE**	**Total**	**Category**
Theory Courses										
26CMU701G	Business Environment	4	0	0	4	4	40	60	100	Major
26CMU702AG/ 26CMU702BG	Treasury Management / Financial Derivatives	4	0	0	4	4	40	60	100	Major
26CMU703AG/ 26CMU703BG	Entrepreneurship / Insurance and Risk Management	4	0	0	4	4	40	60	100	Major
26CMU704G	Managerial Economics	4	0	0	4	4	40	60	100	Minor
Theory Cum Laboratory Courses										
26CMU741G	Research Methodology	2	0	4	4	5	50	50	100	Major
Total		**18**	**0**	**4**	**20**	**21**	**210**	**290**	**500**	
Semester VIII A (Honours)										
Code No.	**Course**	**L**	**T**	**P**	**C**	**Hours/ Week**	**CIA**	**ESE**	**Total**	**Category**
Theory Courses										
26CMU801AG/ 26CMU801BG	International Financial Management /Corporate Governance	4	0	0	4	4	40	60	100	Major
26CMU802AG 26CMU802BG	International Trade / Forensic Accounting	4	0	0	4	4	40	60	100	Major
26CMU803G	Strategic Business Management	4	0	0	4	4	40	60	100	Minor
Theory Cum Laboratory Courses										
26CMU841G	NGO Accounting	1	0	4	3	5	50	50	100	Major
Project - II										
26CIU891A	Project – II	0	0	8	4	8	40	60	100	Project
Total		**13**	**0**	**12**	**19**	**25**	**210**	**290**	**500**	
Semester VIII B (Honours with Research)										
Code No.	**Course**	**L**	**T**	**P**	**C**	**Hours/ Week**	**CIA**	**ESE**	**Total**	**Category**
Theory Courses										
26PAU801/ 26CMU801BG	Banking Theory Law and Practice / Corporate Governance	4	0	0	4	4	40	60	100	Major
26CMU803G	Strategic Business Management	4	0	0	4	4	40	60	100	Minor
Project - II										
26CIU891B	Research Project	0	0	24	12	24	120	180	300	Project
Total		**8**	**0**	**24**	**20**	**32**	**200**	**300**	**500**	
Grand Total Sem I to Sem VIII A		**121**	**5**	**68**	**168**	**193**	**2900**	**2350**	**5250**	
Grand Total Sem I to Sem VII + VIII B		**116**	**5**	**80**	**169**	**200**	**2890**	**2360**	**5250**	

VALUE ADDED COURSES

S.No.	Semester	Course Code	Course Name
1	I	26VAC101G	Yoga for Youth Empowerment
2	I	26VAC102G	Beauty Artistry - Basic Level
3	I	26VAC103G	Swara Gaanam (Music) - Basic Level
4	I	26VAC104G	Freestyle Fusion (Dance) - Basic Level
5	I	26VAC105G	Aari Embroidery Techniques
6	I	26VAC106G	Computer Repair and Services
7	I	26VAC107G	Mobile Repair and Services
8	I	26VAC108G	Mushroom Cultivation
9	I	26VAC109G	Photography
10	I	26VAC110G	Sustainable Production Techniques
11	II	26VAC201G	Advanced Yoga Practices
12	II	26VAC202G	Beauty Artistry - Advance Level
13	II	26VAC203G	Swara Gaanam (Music) - Advanced Level
14	II	26VAC204G	Freestyle Fusion (Dance) -Advanced Level
15	II	26VAC205G	Fashion Design & Tailoring
16	II	26VAC206G	Prompt Engineering and Gen Ai
17	II	26VAC207G	Fundamentals Of Drone Design and Operation
18	II	26VAC208G	Financial Literacy and Money Management
19	II	26VAC209G	Short Film Production Techniques
20	II	26VAC210G	Microgreens Cultivation

PROFESSIONAL ELECTIVE COURSES

PROFESSIONAL ELECTIVE – I		
Semester	**Course Code**	**Course Name**
III	26CMU302AG	Corporate Finance
	26CCU302BG	Digital Banking
	26CIU302CG	Mercantile Law
PROFESSIONAL ELECTIVE – II		
Semester	**Course Code**	**Course Name**
IV	26CMU402AG	Financial Modelling and Fintech Applications
	26CCU402BG	Risk and Investment Management
	26CIU402CG	Company Law
PROFESSIONAL ELECTIVE – III		
Semester	**Course Code**	**Course Name**
V	26CMU502AG	Security Analysis and Portfolio Management
	26CCU502BG	Financial Technology
	26CIU502CG	Labour & Industrial Law

OPEN ELECTIVE COURSES

Semester V:

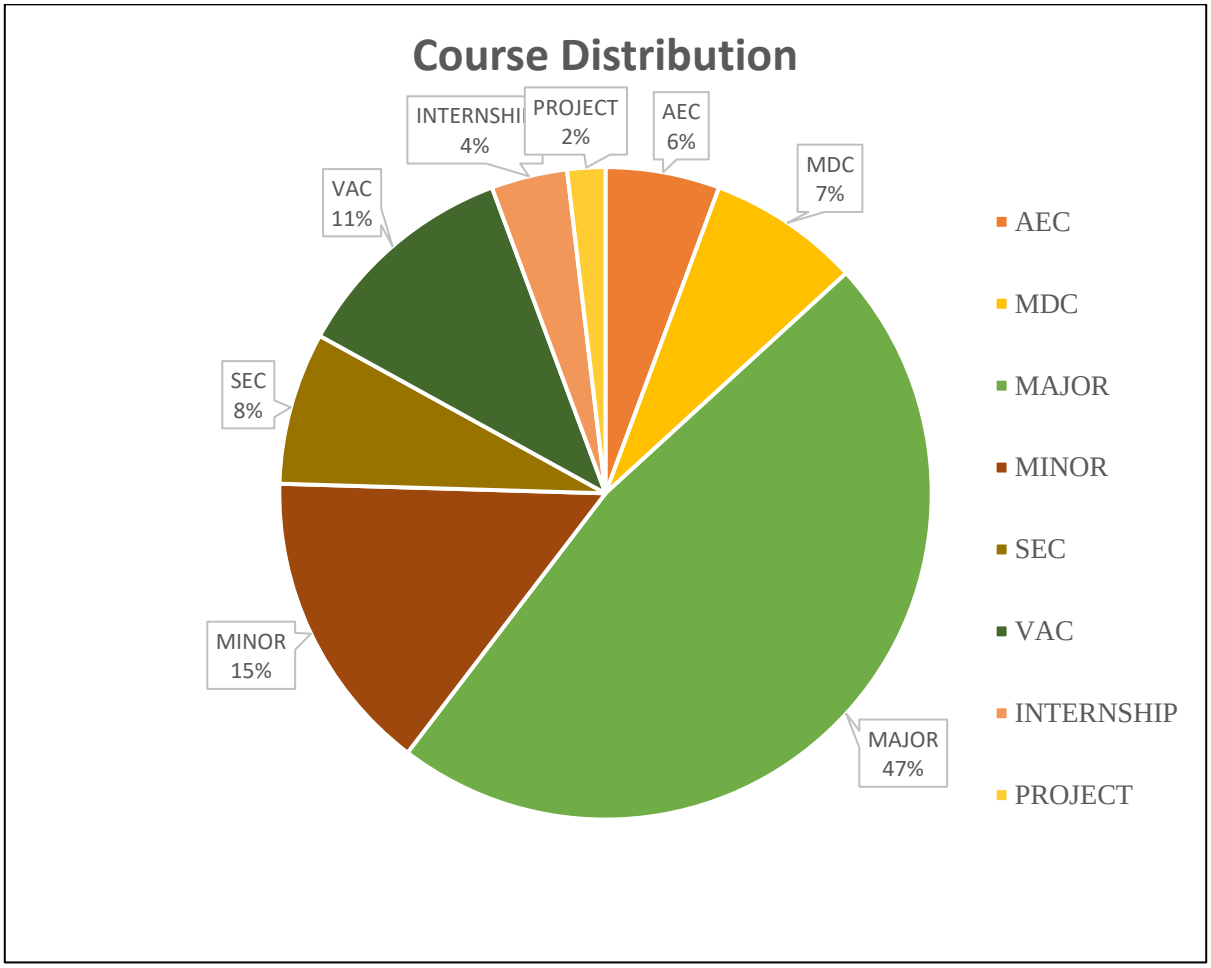
S. No	Name of the Offering Department	Course Code	Course Name
1	Commerce	26CMUOE501G	Business Ethics and Corporate Governance
2	Commerce CA	26CCUOE501G	Stock market Instruments and Operations
3	Commerce IT	26CIUOE501G	Campus to Corporate Transition
4	Management	26BAUOE501G	Business Analytics using Python
5	Biotechnology	26BTUOE501G	Health and Hygiene
6	Microbiology	26MBUOE501G	Biofertilizers
7	Computer Applications	26CAUOE541G	Web Designing
8	Computer Science	26CSUOE541G	Data Engineering
9	Information Technology	26ITUOE541G	Introduction to Python Programming
10	Cyber Security and Cognitive Systems	26CYUOE501G	Introduction to Cyber Security
11	Artificial Intelligence and Data Science	26ADUOE541G	Introduction to Data Science
12	Mathematics	26MAUOE501G	Theory of Matrices
13	English	26EGUOE541G	English Proficiency I

Semester VI:

S. No	Name of the Offering Department	Course Code	Course Name
1	Commerce	26CMUOE601G	Corporate Performance and Analysis
2	Commerce CA	26CCUOE601G	Personal Finance and Planning
3	Commerce IT	26CIUOE601G	Social Media Marketing
4	Management	26BAUOE601G	Transportation and Distribution Management
5	Biotechnology	26BTUOE601G	Medicinal Plants and Human Health
6	Microbiology	26MBUOE601G	Functional Food
7	Computer Applications	26CAUOE641G	Data Analysis Using Excel
8	Computer Science	26CSUOE641G	Digital Productivity
9	Information Technology	26ITUOE641G	UI/ UX Design
10	Cyber Security and Cognitive Systems	26CYUOE601G	Ethical Hacking
11	Artificial Intelligence and Data Science	26ADUOE641G	Prompt Engineering
12	English	26EGUOE641G	English Proficiency II

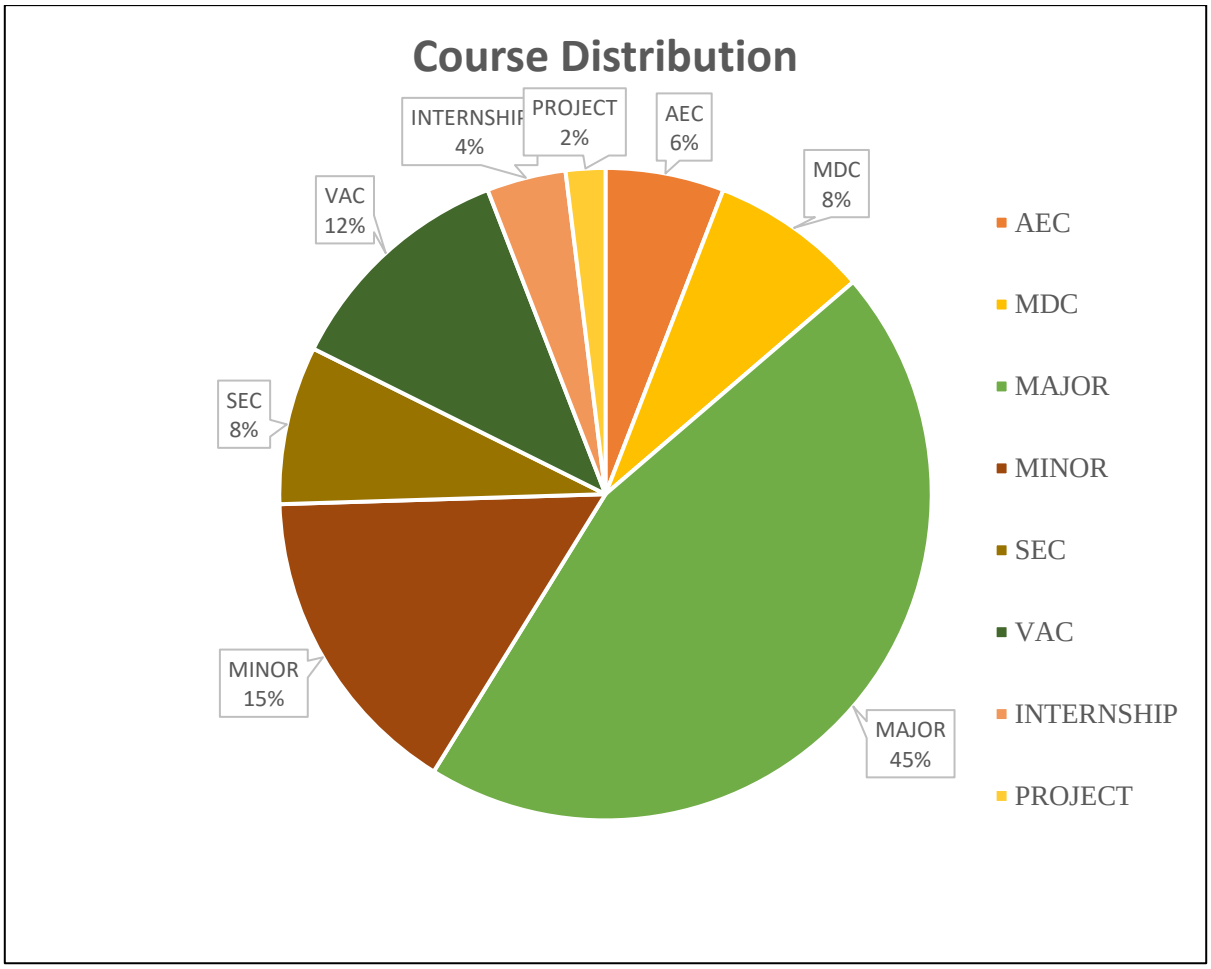
B.Com. Information Technology (Honours) - Course Distribution

Category	No. of Courses			Total
	Theory	Practical	Integrated	
AEC	3	0	0	3
MDC	4	0	0	4
MAJOR	16	2	7	25
MINOR	6	0	2	8
SEC	4	0	0	4
VAC	3	0	3	6
INTERNSHIP	0	2	0	2
PROJECT	0	1	0	1
Total				53



B.Com. Information Technology (Honours with Research) - Course Distribution

Category	No. of Courses			Total
	Theory	Practical	Integrated	
AEC	3	0	0	3
MDC	4	0	0	4
MAJOR	14	2	7	23
MINOR	6	0	2	8
SEC	4	0	0	4
VAC	3	0	3	6
INTERNSHIP	0	2	0	2
PROJECT	0	1	0	1
Total				51



B.Com. (Information Technology) **2026-2027**

Category: MDC **SEMESTER I**

26LTU101G **Language: Tamil – I இலக்கிய நெறிகள்** **3H-3C**

Instruction Hours / Week: L:3 T: 0 P: 0 **Marks:** Internal**: 40** External**: 60** Total**: 100**

End Semester Exam:3 Hours

பாடத்திட்டப் பொதுநோக்கம் (CO):

- மாணவர்களுக்கு ஒழுக்கம் மற்றும் அறவாழ்க்கையின் இன்றியமையாமையை உணர்த்துதல்.
- வாழ்வியல் மதிப்புகளை அறிவுறுத்தல்.
- இன்புறுதல் மற்றும் அறிவுறுதல் நிலைகளில் தமிழ் இலக்கியங்களின் பங்களிப்பை உணர்த்துதல்.
- மொழித்திறன் மேம்பாட்டுப் பயிற்சி அளித்தல்.
- மாணவர்களைப் போட்டித் தேர்வுகளுக்கு ஆயத்தமாக்குதல்.

பாடத்திட்டப் பயன்விளைவு (COs):

பாடத்திட்டத்தின் விளைவாக மாணவர்கள் அடையும் பயன்கள்**:**

COs	Course Outcomes	Blooms Level
CO1	அற வாழ்க்கைக்குரிய நன்னடத்தை மேம்பாடு	K2
CO2	தனிமனித அமைதி மற்றும் சமூக நல்லிணக்க மதிப்புகளைக் கடைப்பிடித்தல்	K3
CO3	தமிழ் இலக்கிய நுட்பங்களையும், தமிழ்ப்பண்பாட்டுக் கூறுகளையும் உணர்ந்திருத்தல்	K2
CO4	மொழி ஆளுமைக்குரிய நுட்பங்களை உணர்ந்திருத்தல்	K4
CO5	தமிழ் இலக்கியங்களைப் போட்டித்தேர்வு நோக்கில் பகுத்தாய்கின்ற திறன் பெற்றிருத்தல்	K4
K1- மீண்டும் நினைவு கூர்தல், **K2** – புரிந்துகொள்ளுதல் **K3** - உள்ளிடுதல் **K4** - பகுத்தாய்தல் **K5**- மதிப்பிடுதல், **K6**- படைப்பாக்கம்		
K1 - Remember; **K2** - Understand; **K3** - Apply; **K4** - Analyze; **K5** - Evaluate; **K6** – Create		

அலகு 1: **9 மணிநேரம்**

தமிழ் இலக்கிய வரலாறு - முச்சங்கங்கள் அறிமுகம் – சங்க இலக்கியத்தின் தோற்றுவாய் - பத்துப்பாட்டு அறிமுகம்

சங்க இலக்கியம் - முல்லைப்பாட்டு – "பால்போல" முதல் "குறுநீர்" வரை (1-58)

அற இலக்கியம் - திருக்குறள் - பெரியாரைத் துணைக்கோடல் (அதிகாரம் 45), அறன் வலியுறுத்தல் (அதிகாரம் 4).

காப்பியம் - சிலப்பதிகாரம் –

அ) புகார்க்காண்டம் – மங்கல வாழ்த்துப்பாடல் - "நாகநீள் நகரொடு" முதல் "புகார் நகர் அது தன்னில்" வரை (21 - 22) மனையறம் படுத்த காதை – "வார் ஒலி கூந்தலை" முதல் "கண்ணகி தனக்கு என்" வரை (84 - 90).

ஆ) மதுரைக்காண்டம் – கொலைக்களக் காதை – "இரு முதுகுரவர் ஏவலும்" முதல் "என் செய்தனை" வரை (67 - 70) "வினை விளை காலம்" முதல் "அச் சிலம்பு கொணர்க ஈங்கு" வரை (148-153) கட்டுரை காதை – "கடி பொழில்" முதல் "கட்டுரை கேள் நீ" வரை (138 - 170) வழக்குரை காதை – "அல்லவை செய்தார்க்கு" முதல் " உண்டளவே தோற்றான் உயிர்" வரை (82 - 93)

இ) வஞ்சிக்காண்டம் – நடுகல் காதை - "மதுரை மூதூர்" முதல் "வடதிசை வணக்கிய மன்னவர் ஏறு" (218-234) வாழ்த்துக் காதை – "என்னே! இஃது என்னே!" முதல்

	"மீவிசும்பில் தோன்றுமால்" வரை (9)
இலக்கணம்	- அகத்திணைகள்
அலகு 2:	**9 மணிநேரம்**
தமிழ் இலக்கிய வரலாறு	- எட்டுத்தொகை அறிமுகம்
சங்க இலக்கியம்	- நற்றிணை - "விளையாடு ஆயமொடு" - (172)
சங்க இலக்கியம்	- குறுந்தொகை - "நோமென் னெஞ்சே" - தலைவி கூற்று (202)- "ஈதலுந் துய்த்தலு" - தலைவன் கூற்று – (63)
அற இலக்கியம்	- நாலடியார் - கூடா நட்பு – "செறிப்பில்" முதல் "செய்யாது செய்து" வரை (1 முதல் 5 பாடல்கள்),
காப்பியம்	- மணிமேகலை - பாத்திரம் பெற்ற காதை - "போதிநீழல்" முதல் "நல்அறம்கண்டனை" வரை (73-98)
இலக்கணம்	- புறத்திணைகள்
அலகு 3:	**9 மணிநேரம்**
தமிழ் இலக்கிய வரலாறு	- அற இலக்கியங்கள் அறிமுகம்
சங்க இலக்கியம்	- ஐங்குறுநூறு - வேட்கைப்பத்து – "வாழி ஆதன் வாழி அவின" எனத் தொடங்கும் முதல் ஐந்து பாடல்கள்.
சங்க இலக்கியம்	- பதிற்றுப்பத்து – ஏழாம்பத்து - "எறிபிணம் இடறிய செம்மறுக்" (65)
அற இலக்கியம்	- நான்மணிக்கடிகை -எள்ளற்க என்றும் (1) - புகழ் செய்யும் (2) - சிறந்தார்க்கு (3) - கொடுப்பின் (4) – நல்லார்க்கும் (5) - (தேர்ந்தெடுத்த ஐந்து பாடல்கள்)
காப்பியம்	- கம்பராமாயணம் – தேர்ந்தெடுக்கப்பட்ட பாடல்கள் (12) – மன்னவன் (1604), பின்னும் பகர்வாள் (1752), பஞ்சி ஒளிர் (2762), மயில் உடை (3151), ஆண்டு ஆயிடை (3390), மற்று இனி (3812), கண்டனன் (5249), வேலையுள் (6037), மண்ணொடும் (6038), வாங்கிய ஆழி (6049), இங்கு உள (6051), கண்டனென் (6031)
சிற்றிலக்கியம்	கலிங்கத்துப்பரணி – போர்க்களக்காட்சிகள் – "தேவாசுரம் (472), உடலின்மேல் (475), நெடுங்குதிரை (476), விருந்தினரும் (477), தரைமகள் (483), பொருதடக்கை (484), வெயில்தாரை (488)".
இலக்கணம்	- முதலெழுத்துகள், சார்பெழுத்துகள்.
அலகு 4:	**9 மணிநேரம்**
தமிழ் இலக்கிய வரலாறு	- காப்பியங்கள் - தோற்றமும் வளர்ச்சியும்
சங்க இலக்கியம்	- பரிபாடல் - வையை - (பாடல் – 6) "நிறைகடல் முகந்து உராய்" முதல் "சேறு ஆடுபுனலது செலவு" வரை (1-50 அடிகள்).
சங்க இலக்கியம்	- கலித்தொகை - "சுடர்தொடீஇக் கேளாய்" (51)
அற இலக்கியம்	- ஆசாரக்கோவை - 5 பாடல்கள் (நன்றியறிதல் (1), பிறப்பு (2), தக்கணை (3), வைகறை (4), எச்சிலார் (5)).
சிற்றிலக்கியம்	- தமிழ்விடு தூது – "சீர்கொண்ட" முதல் – "கல்லாதார்" வரை (1 முதல் 15 கண்ணிகள்)
இலக்கணம்	- வேற்றுமை உருபுகள்.

அலகு 5: **9 மணிநேரம்**

தமிழ் இலக்கிய வரலாறு - சிற்றிலக்கியங்கள் தோற்றமும் வளர்ச்சியும்

சங்க இலக்கியம் - அகநானூறு - "ஈன்று புறம் தந்த எம்மும் உள்ளாள்" – பாலை
- நற்றாய் கூற்று (35).

சங்க இலக்கியம் - புறநானூறு – "புலவரை இறந்த புகழ்சால் தோன்றல்" – (21)

அற இலக்கியம் - பழமொழி நானூறு - (5 பாடல்கள்)
1. அவையறிதல் – கேட்பாரை நாடி (17),
2. அறிவுடைமை - அறிவினால் (26),
3. ஒழுக்கம் – விழுத் தொடையர் (34),
4. இன்னா செய்யாமை - பூ உட்கும் (43),
5. வெகுளாமை - இறப்பச்சிறியவர் (51).

சிற்றிலக்கியம் - முக்கூடற் பள்ளு- நெல்வகைகள், மாடுவகைகள்

இலக்கணம் - வினா, விடை வகைகள்.

மொத்த மணிநேரம் - 45

TEXT BOOKS:

1. கற்பகச் சோலை – தமிழ்ப்பாட நூல், இலக்கிய நெறிகள், தமிழ்த்துறை வெளியீடு, கற்பகம் உயர்கல்விக்கழகம், கோயம்புத்தூர் – 21.

REFERENCE BOOKS:

1. தமிழ் இலக்கிய வரலாறு, முனைவர் கா.கோ. வேங்கடராமன், கலையக வெளியீடு, நாமக்கல்.

2. வகைமை நோக்கில் தமிழ் இலக்கிய வரலாறு, முனைவர் பாக்யமேரி, பூவேந்தன் பதிப்பகம், சீனிவாசா சாலை, மயிலாப்பூர், சென்னை.

WEBSITES:

1.W1-www.tvu.org.in
2.W2- www.maduraitamilproject.com

JOURNALS:

1. International Research Journal of Indian Literature, irjil.in
2. International Tamil Research Journal, iorpress.in

CO, PO, PSO Mapping

CO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12	PO 13	PO 14	PO 15	PSO 1	PSO 2
CO1	-	-	-	-	-	-	-	-	2	-	2	1	3	2	2	-	-
CO2	-	-	-	-	-	-	2	-	-	-	2	-	2	2	3	-	-
CO3	-	-	-	-	-	-	-	-	-	3	2	1	-	-	1	-	-
CO4	-	3	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-
CO5	-	-	-	-	-	-	-	-	1	2	3	-	-	2	2	-	-
Average	**-**	**3**	**-**	**-**	**-**	**-**	**2**	**-**	**1.5**	**2.5**	**2.25**	**1**	**2.5**	**2**	**2**	**-**	**-**

1 - Low, 2 - Medium, 3 - High, - No Correlation

B.Com. (Information Technology) **2026-2027**

Category: MDC **SEMESTER I**

26LHU101G **Language: Hindi - I** **3H-3C**

Instruction Hours / Week: L:3 T: 0 P: 0 **Marks:** Internal**: 40** External**: 60** Total**: 100**

End Semester Exam:3 Hours

COURSE OBJECTIVES(CO):

- Understand the text styles and grammatical elements
- Discuss the content of a reading passage
- Develop an interest in the appreciation of short stories

COURSE OUTCOMES(COs) :

Upon completion of this course, the student will be able to:

COs	Course Outcomes	Blooms Level
CO1	Develop an interest in the appreciation of literature.	K3
CO2	Discuss and respond to content of a reading passage.	K4
CO3	Learning the literacy knowledge of Hindi specially reading and writing.	K3
CO4	Learning the literary knowledge specially reading and understanding of Hindi short Stories	K2
CO5	Learning the history of Hindi literature.	K2
K1 - Remember; **K2** - Understand; **K3** - Apply; **K4** - Analyze; **K5** - Evaluate; **K6** – Create		

UNIT I: **9 HOURS**

Prose - Bharathiya Sangrah; Non-Detailed - Naya Mehman; Nibandh – Anushasan; Grammar - Bhasha Aur Vyakaran

UNIT II: **9 HOURS**

Prose - Pahtha Pani Nirmal; Non-Detailed - Eakankki ki Visheshatha; Nibandh – Onam; Grammar – Varna Vichar , Sangya

UNIT III: 9 **HOURS**

Prose – Rashtriya Pitha Mahathma; Non-Detailed – Maha Bharat ki Eak Sanjh; Nibandh – Eakatha Ka Mahathva; Grammar – Sarvanam , Gender

UNIT IV: 9 **HOURS**

Prose – Gapshap; Non-Detailed – Yahang Sona Mana Hai; Nibandh – Ganga Pradhushan Ki Samasya; Grammar – Number , Karak , Visheshan

UNIT V: **9 HOURS**

Prose – Nindha Ras; Non – Detailed Eakanki ki Katha Vasthu; Nibandh – Paropkar; Grammar - Kriya , Kriya Visheshan **TOTAL: 45 HOURS**

Suggested AI Tools / Software Tools

S.No.	AI Tools / Software Tools	Purpose
1.	**Grammarly**	**To improve written communication by offering grammar, tone, and style suggestions**
2.	**Quillbot**	**To improve Students' writing by paraphrasing, summarizing, and refining text for better clarity and tone.**

TEXT BOOKS:

1. Jayaprakash, **(**2002**)**. Nuthan Gathya Sangrah **(**Lesson - 1, 5, 6, 8, 9**),** Sumithra Prakasan**,** 16/5**.** Hasting Road, Illahabad - 211001**.**

2. Tiwari,S.M. Dr**., (**2008**).** Naveen Ekhanki Sangrah**,** Sumithra Prakashan**,** 204. Leela Apartment**,** Ashok Nagar**,** Illahabad - 211001.

REFERENCE BOOKS:

1. Sing,B.K.P.D Dr**., (**2018**).** Nibandh : Subod Hindi Nibandh**,**

Manoj Publication**,** 1583 - 84 Dariba Kala**,** Chandni Chouk**,** Delhi - 110006.

2. Pro,V.D.S., & Dharmapal**, (**2005**).** Sugam Hindi Vyakaran**,** Shiksha Bharathi**,** Kashmir Gat**,** Delhi - 110006**.**

WEBSITES:

1. https://www.hindivi.org
2. https://www.ikouniv.ac.in

JOURNALS:

1. International Journal of hindi research
2. National Journal of hindi & sanskrit research

CO, PO, PSO Mapping

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PO13	PO14	PO15	PSO1	PSO2	PSO3
CO1	-	-	-	-	-	-	-	-	2	-	2	1	3	2	2	-	-	-
CO2	-	-	-	-	-	-	2	-	-	-	2	-	2	2	3	-	-	-
CO3	-	-	-	-	-	-	-	-	-	3	2	1	-	-	1	-	-	-
CO4	-	3	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-
CO5	-	-	-	-	-	-	-	-	1	2	3	-	-	2	2	-	-	-
Average	**-**	**3**	**-**	**-**	**-**	**-**	**2**	**-**	**1.5**	**2.5**	**2.25**	**1**	**2.5**	**2**	**2**	**-**	**-**	**-**

1 - Low, 2 - Medium, 3 - High, '-' - No Correlation

B.Com. (Information Technology) **2026-2027**

Category: MDC **SEMESTER I**

26LMU101G **Language: Malayalam - I** **3H-3C**

Instruction Hours / Week: L:3 T: 0 P: 0 **Marks:** Internal**: 40** External**: 60** Total**: 100**

End Semester Exam:3 Hours

COURSE OBJECTIVE (CO):

- To improve grammatical knowledge
- To read and learn about articles and think about them
- To read and understand short stories and understand the thoughts and life ofthe people of this state.

COURSE OUTCOME: (COs)

COs	**Course Outcomes**	**Blooms Level**
CO1	Understand the text styles and grammatical elements	K2
CO2	Discuss the content of a reading passage	K3
CO3	Develop an interest in the appreciation of short stories	K2
CO4	Comprehend the grammatical structures and sentence making	K4
CO5	Understand the language and developing English to Malayalam translation skill	K4
K1 - Remember; **K2** - Understand; **K3** - Apply; **K4** - Analyze; **K5** - Evaluate; **K6** – Create		

Unit No.		**HOURS**
I	**Novel – Pathummayude Aadu - Vaikam Muhammed Basheer** **I-I - Introduction to the Author**: Cover Basheer's return from his nomadic travels to his family home in Thalayolaparambu. **I - II The Character Matrix:** Map out the key human characters including his mother (Umma), his brothers (Abdul Khader, Hanifa, Anis), and his sister Pathumma. Introduction of Malayalam Novels **I - III Socio-Economic Themes:** Analyze the financial reliance of the family on Basheer, the underlying poverty, and the resilience of rural women. **I - IV The Alternative Title Perspective:** Debate why Basheer originally gave it the alternative title Pennungalude Buddhi (The Wisdom of Women).	**9**
II	**Novel- - Pathummayude Aadu - Vaikam Muhammed Basheer** **II-I The Legend of the Goat**: Study the behavior of Pathumma's goat as a central character that enjoys complete freedom and eats everything from clothing to book manuscripts **II - II The Animal Menagerie**: Examine the roles of the other domestic animals (the cats, rats, and crows) that blur the lines between human and animal living spaces **II - III Humor and Satire**: Break down the comedic elements and situational irony used to process tragic or stressful real-life situations **II – IV Colloquial Language and Style**: Analyze Basheer's choice to publish the manuscript unedited, using the regional, raw spoken slang of the region rather than high literary prose	**9**

III	**Short Story - Ente Priyappeta Kadhakal – Akbar Kakkattil)** **III - I Genesis of Teacher Fiction** **III - II** The Vulnerable Teacher **III -** Student-Teacher Dynamics **III - III** Institutional Satire	**9**
IV	**Short Story - Ente Priyappeta Kadhakal – Akbar Kakkattil)** **IV – I** Socio-Cultural Realism **IV – II** The "Unfailing Humor" Aesthetic **IV – III** Fictional Portraits of Real Icons **IV – IV** Domesticity and Gender	**9**
V	Composition & Translation (English to Malayalam)	**9**
TOTAL HOURS		**45**

Suggested AI Tools / Software Tools

S.No.	AI Tools / Software Tools	Purpose
1.	**Grammarly**	To improve written communication by offering grammar, tone, and style suggestions
2.	**Quillbot**	To improve Students' writing by paraphrasing, summarizing, and refining text for better clarity and tone.

TEXT BOOKS:

1. Basheer.V.M, (1959),*PathummayudeAadu*, D.C.Books, Kottayam, Kerala
2. Akbar Kakkattil ,(2022), *Ente Priyappeta Kadhakal*,D.C. Books, Kottayam, Kerala
3. Expansion of ideas, General Eassay and Translation. (A simple passage)

REFERENCE BOOKS:

1. Tharakan K.M ,(2023),Malayala Novel SahithyaCharitram, B.C.Book,Kerala Sast Rasahitya,Kerala
2. Achuyuthan, M (2023),Cherukatha Innale Innu,D.C Books, Kottayam, Kerala
3. George K.M ,(2013)Sahithya CharitramPrasthanangalilude-, D.C.Books, Kottayam, Kerala
4. Sukumar Azheekode ,(2018)MalayalaSahithyaVimarsam,D.C.Books,Kottayam,Kerala

Website:

1. http://malayalamuniversity.edu.in/en/publication/Journals
2. https://iucml.keralauniversity.ac.in/

Journals

3. https://benjaminbaileyfoundation.org/Information_on_journal.html
4. Indian Journal of Malayalam Language Research Studies

CO, PO, PSO Mapping

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PO13	PO14	PO15	PSO1	PSO2	PSO3
CO1	-	-	-	-	-	-	-	-	2	-	2	1	3	2	2	-	-	-
CO2	-	-	-	-	-	-	2	-	-	-	2	-	2	2	3	-	-	-
CO3	-	-	-	-	-	-	-	-	-	3	2	1	-	-	1	-	-	-
CO4	-	3	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-
CO5	-	-	-	-	-	-	-	-	1	2	3	-	-	2	2	-	-	-
Average	**-**	**3**	**-**	**-**	**-**	**-**	**2**	**-**	**1.5**	**2.5**	**2.25**	**1**	**2.5**	**2**	**2**	**-**	**-**	**-**

1 - Low, 2 - Medium, 3 - High, '-' - No Correlation

COURSE OBJECTIVES (CO):

The objectives of this course are:

- To enable the learner to communicate effectively and appropriately.
- To develop and integrate the use of the four language skills.
- To train students to acquire proficiency in French by reading different genres of literature and learning grammar.

COURSE OUTCOMES (COs):

At the end of this course, students will be able to

COs	Course Outcomes	Blooms Level
CO1	Retrieve fundamentals of French language to construct error free sentences.	K3
CO2	Construct and maintain social relationships.	K4
CO3	Construct business letters, proposals and E-Mail communication	K3
CO4	Adopt the skills of planning, structuring, and delivery techniques in group discussions and presentations.	K2
CO5	Classify communication skills in business environment	K2
K1 - Remember; **K2** - Understand; **K3** - Apply; **K4** - Analyze; **K5** - Evaluate; **K6** – Create		

UNITE I: **9 HOURS**

Leçon – Bienvenue, Communication – Un cours de francais,Entrer en contact saluer; Verbes - être ou avoir Lexique – Les couleurs, l' alphabet; e) Culture – La France

UNITE II: **9 HOURS**

Leçon - Bonjour ça va ?; Communication - Demander et dire,Comment ça va; Verbes – Les verbes réguliers en –er; Lexique - Les Pays et les nationalités , Les animaux domestiques; Les jours de la semaine; Culture – La France et la Francophonie

UNITE III: **9 HOURS**

Leçon - Salut ! Je m'appelle Agnès; Communication - Se présenter et présenter quelqu'un Demander et dire la date; Grammaire - Les pronoms personnels sujets ,Les verbes être et avoir; Les articles définis et indéfinis; Verbes - Les verbes aller et venir; Lexique - Les mois de l'année, Les nombres de 0 à 69 » La famille (1); Culture - La France physique et politique

UNITE IV: **9 HOURS**

Leçon - Qui est-ce ? Dans mon sac, j ' ai; Communication - Demander et répondre poliment ,Demander des; informations Personnelles; Grammaire - La formation du feminine, La formation du pluriel Le adjectifs possessifs; Verbes -Les verbes ir et re; Lexique - Les professions ,Quel ques objets ,La fiche d'identité; Culture - Les symbols de la France.

UNITE V: **9 HOURS**

Leçon - Il est comment ? Allô ?; Communication - Décrire l'aspect physique et le caractère Parler au telephone; Grammaire - La formation du féminin , La phrase interrogative; Qu'est-ce que... ? La phrase negative; Verbes - Le verbe Faire Lexique - L'aspect physique , Le caractère, Les; prépositions de lieu , Les nombres à partir de 70; Culture - Les frontiers de la france,les villes connues en france.

TOTAL: 45 HOURS

Suggested AI Tools / Software Tools

S.No.	AI Tools / Software Tools	Purpose
3.	Speak AI	Focused on speaking fluency with AI conversations and pronunciation feedback. Frequently recommended for realistic speaking practice.
4.	Duolingo Max	Good for beginners and daily practice habits. AI roleplay and explanations help with French basics.

TEXT BOOKS:

1. Cocton ,M-N, (2015, December), Saison 1: méthode de français, Volume 89, Number 2, Johns Hopkins University Press, Difier Paris.
2. Alcaraz,M,Escoufier, D., Gomy, C., Landier, M., Quéméner, FI., Ripaud, 2014, Saison 1- Cahier d'activites, Dider, Paris.

REFERENCE BOOKS:

1. Akvüz A., Bernadette Bazelle-Shahmaei, Joëlle Bonenfant, Marie-Françoise Gliemann, 24 Aug. 2005, Les 500 Exercices De Grammaire Avec Corrigés, Hachette Francais Langue Etrangere, Paris.
2. Beaulieu C,2011, Je Pratique Exercice De Grammaire A1, French, Goyal Publishers, Paris.
3. Bié N.,Philippe Santinan, April 2014, Grammaire pour adolescents 250 exercices, French, CLE International, Paris

WEBSITES:

1. http:// enseigner.tv5 monde.com/
2. bonjourdumonde.com /exercises/contenu/le – francais-du- tourisme.html
3. http://www.bonjurdefrance.com/
4. https://www.lepointdufle.net/

JOURNALS:

1. French cultural studies
2. Australian journal of French studies

CO, PO, PSO Mapping

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PO13	PO14	PO15	PSO1	PSO2
CO1	–	3	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
CO2	–	-	1	–	–	–	–	–	2	–	–	1	–	–	–	–	–
CO3	–	3	3	–	–	–	–	–	–	–	1	3	–	–	–	–	–
CO4	–	-	2	–	–	–	–	–	–	–	–	2	–	–	–	–	–
CO5	–	-	–	–	–	–	–	–	2	–	–	1	–	–	3	–	–
Average	**–**	**3**	**2**	**–**	**–**	**–**	**–**	**–**	**2**	**–**	**1**	**1.75**	**–**	**–**	**3**	**–**	**–**

1 - Low, 2 - Medium, 3 - High, '-' - No Correlation

Category: MDC **SEMESTER I**

26LGU101G **Language: German – I** **3H-3C**

GRUNDSTUFE DEUTSCH – (LEVEL A1)

Instruction Hours / Week: L:3 T: 0 P: 0 **Marks:** Internal**: 40** External**: 60** Total**: 100**

End Semester Exam:3 Hours

COURSE OBJECTIVES(CO):

1. Improve the communication skills in German Language
2. Improve the Listening and Understanding capability of German FM Radio, and TV Programmes, Films
3. Build the confidence of the usage of German language and better understanding of the culture

COURSE OUTCOMES (COs):

At the end of this course, students will be able to

Cos	Course Outcomes	Blooms Level
CO1	Create proficiency in advanced grammar and rules	K2
CO2	Understand the texts including scientific subjects.	K2
CO3	Create the ability of listening and speaking in real time situations	K3
CO4	Create the vocabulary in different context-based situations.	K4
CO5	Create written communication in profession life, like replaying or sending E-mails and letters in a company.	K3
K1 - Remember; **K2** - Understand; **K3** - Apply; **K4** - Analyze; **K5** - Evaluate; **K6** – Create		

UNIT I: **9 HOURS**

Grammatik : Tempus – Perfekt, Präteritum, Plusquamperfekt, Futur-I, Futur-II, Wiederholung der Grundstufen grammatik. Grammatik : Passiv, Personalpronomen (Nominativ, Akkusativ, Dativ)

Lernziel: Sätze schreiben in verschiedenen Zeiten. Passiv, Formen der Personalpronomen.

UNIT II: **9 HOURS**

Adjektivdeklination, Nebensätze, Präpositionen mit Akkusativ und Dativ, Infinitivsätze. Übersetzung: Technische Terminologie, wissenschaftliche, Literarische Texte aus dem Deutschen ins Englische umgekehrt.

Lernziel: Verbindung zwischen Adjektiv und Nomen, Übung von Grammatik und Wortschatz.

UNIT III: **9 HOURS**

Hörverstandnis durch Audioubung: Familie, Leben in Deutschland, Am Bahnhof, Video : Politik, Historie, Tagesablauf in einer anderen Stadt.

Lernziel: Ubung der Sprache.

UNIT IV: **9 HOURS**

Horverstandnis durch Audioübung : Über berühmte Persönlichkeiten, Feste in Deutschland, Video: Wetter, An der Universitat, ein Zimmer buchen, Studentenleben, Städte und Landeskunde

Lernziel: Horverstandnis, landeskunde.

UNIT V: **9 HOURS**

Horverstandnis durch Audioubung: FM Radio aus Deutschland Videos: Fernseher aus Deutschland, Invited Talk: Contemporary

Lernziel: LSRW Fahigkeiten.

TOTAL: 45 HOURS

Suggested AI Tools / Software Tools

S.No.	AI Tools / Software Tools	Purpose
1.	Grammarly	To improve written communication by offering grammar, tone, and style suggestions
2.	Quillbot	To improve Students' writing by paraphrasing, summarizing, and refining text for better clarity and tone.

TEXT BOOK(S)

1. Text Book: 1. TangramAktuell II, Rosa Maria Dallapizza, Beate Bluggel, Max Hueber Verlag, Munchen:2010

REFERENCE BOOKS:

1. ThemenAktuell, Heijo Bock, Mueller Jutta, MaxHueber Verla, Muenchen :2010.
2. Deutsch Sprachlehre fuer Auslander, Schulz Griesbach, Max Hueber Verlag, Muenchen:2012
3. Lagune, Deutsch als Fremdsprache, Jutta Muller, Storz Thomas, Hueber Verlag, Ismaning:2013
4. Studio d A 1, Hermann Funk, Christina Kuhn, Max HuerberVerlag, Munchen: 2011

WEB SITES:

1. WWW.goethe.de
2. Wirtschaftsdeutsh.de
3. Hueber.de
4. Klett-sprachen.de
5. www.deutschtraning.org

JOURNALS

1.https://guides.library.upenn.edu/germanic/journals

2.https://guides.library.harvard.edu/

CO, PO, PSO Mapping

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PO13	PO14	PO15	PSO1	PSO2
CO1	–	3	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
CO2	–	-	1	–	–	–	–	–	2	–	–	1	–	–	–	–	–
CO3	–	3	3	–	–	–	–	–	–	–	1	3	–	–	–	–	–
CO4	–	-	2	–	–	–	–	–	–	–	–	2	–	–	–	–	–
CO5	–	-	–	–	–	–	–	–	2	–	–	1	–	–	3	–	–
Average	**–**	**3**	**2**	**–**	**–**	**–**	**–**	**–**	**2**	**–**	**1**	**1.75**	**–**	**–**	**3**	**–**	**–**

3. **1 - Low, 2 - Medium, 3 - High, '-' - No Correlation**

Category: MDC **SEMESTER I**

26LJU101G **Language: Japanese – I** **3H-3C**

Instruction Hours / Week: L:3 T: 0 P: 0 **Marks:** Internal**: 40** External**: 60** Total**: 100**

End Semester Exam:3 Hours

COURSE OBJECTIVES(CO):

- Demonstrate Proficiency in reading, writing, and speaking in basic Japanese. Learning vocabulary related to profession, education centers, day-to day activities, food, culture, sports and hobby, family set up, workplace, market and classroom activities are essential.
- Make the students industry oriented and make them adapt in the Japanese culture.

Course Outcomes (COs):

At the end of this course, students will be able to

Cos	Course Outcomes	Blooms Level
CO1	Remember greeting people, introducing oneself and understanding basic expressions in Japanese.	K2
CO2	Understand basic grammar skills to use these in a meaning way	K2
CO3	Remember beginners level vocabulary	K4
CO4	Create sentences in Japanese on a variety of topics with significant precision and in detail.	K3
CO5	Apply good comprehension of written discourse in areas of special interests.	K3
K1 - Remember; **K2** - Understand; **K3** - Apply; **K4** - Analyze; **K5** - Evaluate; **K6** – Create		

UNIT I: **09 HOURS**

HIRAGANA & KATAKANA (basic phonetic scripts) AND KANJI (pictorial script) about 25. Hiragana (phonetic sounds) are basically used for particles, words and parts of words. Katakana (phonetic sounds) are basically used for foreign words. They are two sets of Japanese alphabets or syllabaries. Kanji (Chinese characters) are used for the stem of words and convey the meaning as well as sound.

UNIT II: **9 HOURS**

Basic Grammar and Vocabulary

UNIT III: **9 HOURS**

Comprehension -Listening and conversation

UNIT IV: **9 HOURS**

Culture, Etiquette and manners

UNIT V: **9 HOURS**

Reading Text Books MINNA- NO- NIHONGO-1.1 (up to Lesson 10). (With audio and Video supplement as far as possible)

TOTAL: 45 HOURS

Suggested AI Tools / Software Tools

S.No.	AI Tools / Software Tools	Purpose
1.	Speak AI	Focused on speaking fluency with AI conversations and pronunciation feedback. Frequently recommended for realistic speaking practice.
2.	Duolingo Max	Good for beginners and daily practice habits. AI roleplay and explanations help with French basics.

TEXT BOOK:

1. Takuji Kobayashi "MINNA NO NIHONGO –Japanese for Everyone", 2nd Edition GOYAL Publishers & distributors Pvt.Ltd, New Delhi, 2017.

REFERENCE BOOKS:

1. Genki-I (An Integrated Course in Elementary Japanese), Japan Times, Tokyo (PDF is also available online)
2. Nyumon Nihongo- ALC Press, U.K.
3. Marugoto-AI, Japan Foundation, New Delhi.
4. Nihongo Soomatome N5, ASK Publishing, Tokyo (PDF is available online)

WEB SITES:

1. https://www.tofugu.com/japanese-learning-resources-database/
2. https://jll.pitt.edu/ojs/JLL

JOURNALS

1. https://www.jstor.org/journal/japalanglite
2. The Journal of Japanese-Language Literature Studies

CO, PO, PSO Mapping

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PO13	PO14	PO15	PSO1	PSO2
CO1	–	3	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
CO1	–	-	1	–	–	–	–	–	2	–	–	1	–	–	–	–	–
CO3	–	3	3	–	–	–	–	–	–	–	1	3	–	–	–	–	–
CO4	–	-	2	–	–	–	–	–	–	–	–	2	–	–	–	–	–
CO5	–	-	–	–	–	–	–	–	2	–	–	1	–	–	3	–	–
Average	**–**	**3**	**2**	**–**	**–**	**–**	**–**	**–**	**2**	**–**	**1**	**1.75**	**–**	**–**	**3**	**–**	**–**

1 - Low, 2 - Medium, 3 - High, '-' - No Correlation

COURSE OBJECTIVES (CO):

- To build listening, speaking, reading, and writing skills.
- To develop understanding of grammar and sentence structures.
- To enhance reading and writing through guided tasks.

COURSE OUTCOMES (COs):

Upon completion of this course, the student will be able to:

Cos	Course Outcomes	Blooms Level
CO1	Recall basic sounds, grammar, and sentence forms.	K3
CO2	Understand reading, writing, and communication skills.	K4
CO3	Use language in simple speaking and writing tasks.	K3
CO4	Analyze texts, speeches, and stories for meaning and tone.	K2
CO5	Write paragraphs, letter, and essays with correct grammar.	K2
K1 - Remember; **K2** - Understand; **K3** - Apply; **K4** - Analyze; **K5** - Evaluate; **K6** – Create		

UNIT I: **9 HOURS**

Introduction to Sounds, Syllable & Sentence Stress - Self-Introduction - Reading Comprehension Hints Development - Parts of Speech and Kinds of Sentences.

UNIT II: **9 HOURS**

Describing routines & past events - Talking - Likes, Dislikes, Friends & Families - Skimming, Scanning & Close Reading -Dialogue Writing - Types of Sentences.

UNIT III: **9 HOURS**

Listening for Facts & Tones - Public Speaking (Restaurant Orders & Customer Service) - Reading Strategies & Techniques - Paragraph Writing – Articles.

UNIT IV: **9 HOURS**

Listening to TED/ Business Talks - (Motivational Talks - Ratan Tata - Innovating India's Tomorrow, Martin Luther King - I have a dream, - R Madhavan - India in 2030, -Nelson Mandela - I am prepared to die) - Public Speaking (Weather Reports & Toast at Parties) - Reading Short Story (The *Blue Umbrella - Ruskin Bond, The Open Window - Saki)* - Types of Letters and Emails – Tenses.

UNIT V: **9 HOURS**

Listening to News Broadcast (Sustainable Development Goals) - Difference between Monologue & Dialogue - Note Making & Summarizing - Essay Writing - Active & Passive Voice & Degrees of Comparison.

TOTAL: 45 HOURS

Suggested AI Tools / Software Tools

AI Tools / Software Tools	Purpose
Grammarly	To improve written communication by offering grammar, tone, and style suggestions
Quillbot	To improve Students' writing by paraphrasing, summarizing, and refining text for better clarity and tone.
BBC Learning English -Podcast	To improve student's English skills through topical, real-life conversation and expert linguistic insights.
SmallTalk2Me	For speaking practice, providing CEFR scores, and analyzing fluency, pronunciation, and grammar

REFERENCE BOOKS:

1. Eastwood, J. (2019). Oxford practice grammar. Oxford University Press.
2. Mohan, K., & Banerji, M. (2010). Communication skills in English (2nd ed.). Macmillan Education.
3. Murphy, R. (2015). Essential grammar in use: A self-study reference and practice book for elementary learners of English (4th ed.). Cambridge University Press.
4. O'Connor, J. D. (2006). Better English pronunciation (2nd ed.). Cambridge University Press.
5. Wren, P. C., & Martin, H. (2016). High school English grammar and composition (N. D. V. Prasada Rao, Rev.). S. Chand Publishing.

WEB SITES:

1. BBC Learning English: https://www.bbc.co.uk/learningenglish
2. https://www.ereadingworksheets.com
3. https://www.grammarly.com/blog/parts-of-speech/
4. https://www.toastmasters.org
5. https://owl.purdue.edu/owl/general_writing/academic_writing/paragraphs_and_paragraphing/index.html
6. https://www.ted.com/talks
7. https://www.englishpage.com/verbpage/verbtenseintro.html
8. https://www.bbc.com/news
9. https://www.skillsyouneed.com/learn/summarising.html
10. https://www.perfect-english-grammar.com/passive-voice.html

CO, PO, PSO Mapping

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PO13	PO14	PO15	PSO1	PSO2
CO1	–	3	–	–	–	–	–	–	–	1	1	–	–	–	1	2	2
CO2	–	3	–	–	–	–	–	–	–	2	1	1	–	–	2	2	2
CO3	–	3	–	–	–	–	2	–	–	–	–	–	3	2	–	2	2
CO4	–	3	1	–	–	–	–	–	–	2	–	–	3	–	2	2	1
CO5	–	3	–	–	–	–	–	–	–	–	–	–	–	2	–	3	2
Average	–	3	1	–	–	–	2	–	–	1.667	1	1	3	2	1.667	2	2

1 - Low, 2 - Medium, 3 - High, '-' - No Correlation

26CMU141G **Principles of Accountancy** **5H-3C**

Instruction Hours / Week: L:1 T: 0 P: 4 **Marks:** Internal**: 50** External**: 50** Total**: 100**

End Semester Exam:3 Hours

COURSE OBJECTIVES(CO):

- To provide fundamental knowledge of accounting concepts, principles and accounting procedures.
- To familiarize students with journal, ledger, trial balance and preparation of final accounts.
- To equip students with practical accounting skills required for business and professional accounting environments.

COURSE OUTCOMES(COs):

Upon completion of this course, the student will be able to:

COs	Course Outcomes	Blooms Level
CO1	Explain accounting principles, concepts, conventions and types of accounts.	K2
CO2	Record business transactions through journal and ledger accounts.	K3
CO3	Prepare subsidiary books and cash book for recording business transactions systematically.	K4
CO4	Prepare trial balance using accounting procedures	K4
CO5	Prepare final accounts with necessary adjustments for business entities.	K4
K1 - Remember; **K2** - Understand; **K3** - Apply; **K4** - Analyze; **K5** - Evaluate; **K6** – Create		

UNIT I: ACCOUNTING PRINCIPLES, CONCEPTS AND CONVENTIONS	**3T+12P=15 HOURS**
Book Keeping and Accounting – Accounting Principles, Accounting Concepts and Conventions – Accounting Terms, Accounting Equation - Types of Accounts **Activity / Practical Component:** • Creation of Company and setting up company features and configuration • Creation of Groups and Ledgers	
UNIT II: JOURNAL AND LEDGER	**3T+12P=15 HOURS**
Journal – Meaning – Format of Journal -Journal Entries – Ledger – Posting from Journal to Ledger. **Activity / Practical Component:** • Creation of Accounting Vouchers - Contra, Payment, Receipt Vouchers • Creation of Purchase Voucher and Sales Voucher	
UNIT III: SUBSIDIARY BOOKS	**3T+12P=15 HOURS**
Subsidiary Books – Purchase Book – Sales Book – Purchase Return Book – Sales Return Book – Cash Book – Types of Cash Book and Recording of Transactions.	

Activity / Practical Component:

- Creation of Debit Notes, Credit Notes, Memorandum and Post-Dated Vouchers
- Creation of Stock Groups, Stock Items and Units

UNIT IV: TRIAL BALANCE	**3T+12P=15 HOURS**

Trial Balance – Objectives – Preparation of Trial Balance.

Activity / Practical Component:

- Creation of Inventory and Manufacturing Vouchers
- Prepare Stock Summary
- Preparation of Trial Balance

UNIT V: FINAL ACCOUNTS	**3T+12P=15 HOURS**

Preparation of Final Accounts – Trading Account – Profit and Loss Account – Balance Sheet – Adjustments in Final Accounts. Depreciation – Causes of Depreciation – Methods of Depreciation – Straight Line Method – Written Down Value Method – Accounting Treatment of Depreciation.

Activity / Practical Component:

- Preparation of Trading, Profit and Loss Account and Balance Sheet without Adjustments
- Preparation of Trading, Profit and Loss Account and Balance Sheet with Adjustments
- Analysing the Financial Data and Statements and Backup and restore the data of the company.

TOTAL: 75 HOURS

Suggested AI Tools / Software Tools

AI Tools / Software Tools	Purpose
Tally Prime	A computerized accounting software used to record, manage, and analyze business transactions efficiently. It helps in accounting, inventory management, GST compliance, payroll processing, banking operations, and preparation of financial reports, thereby improving accuracy and productivity in business operations.

TEXT BOOK:

1. T.S. Reddy & A. Murthy, Financial Accounting, Revised Edition, Margham Publications, Chennai, 2025.
2. R.L. Gupta & V.K. Gupta, Financial Accounting, Latest Edition, Sultan Chand & Sons, New Delhi, 2022.
3. S.P. Jain & K.L. Narang, Financial Accounting, Revised Edition, Kalyani Publishers, New Delhi, 2022.
4. Tally Education Pvt. Ltd., Official Guide to Tally Prime, Latest Edition, Tally Solutions, Bengaluru, 2024.

REFERENCE BOOKS:

1. Shukla M.C., Grewal T.S. & Gupta S.C., Advanced Accounts, Revised Edition, S. Chand Publishing, New Delhi, 2021.
2. R.S.N. Pillai & Bhagavathi, Fundamentals of Accounting, Revised Edition, S. Chand Publishing, New Delhi, 2021.
3. ICAI – Accounting Process Study Material, Latest Edition.
4. ICMAI – Fundamentals of Financial Accounting Study Material, Latest Edition.
5. Tally Prime Learning Hub, Latest Version Reference.

WEBSITES:

1. www.tallysolutions.com

2. https://onlinecourses.nptel.ac.in/e-learning/preview/noc23_mg65
3. https://www.icai.org/post/19138

CO, PO, PSO Mapping

Cos	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PO13	PO14	PO15	PSO1	PSO2
CO1	3	1	1	–	1	–	–	–	–	–	–	–	1	–	2	3	1
CO2	3	1	2	2	2	–	–	–	–	1	–	–	1	–	2	3	2
CO3	3	1	2	2	2	1	–	–	–	1	–	–	1	–	2	3	2
CO4	3	1	2	2	3	1	–	1	–	1	–	–	1	–	2	3	2
CO5	3	1	2	3	3	1	–	1	–	1	–	–	1	–	2	3	3
AVG	**3**	**1**	**2**	**2**	**2**	**1**	**–**	**1**	**–**	**1**	**–**	**–**	**1**	**–**	**2**	**3**	**2**

1 - Low, 2 - Medium, 3 - High, '-; - No Correlation

COURSE OBJECTIVES (CO):

- Prepare documents, reports, and datasheets, utilizing built-in functions for data analysis to support decision-making.
- Utilize visual aids and tools to present data effectively, and design presentations for business meetings.
- Store, retrieve, and analyze data to make informed decisions, applying computer tools to real-life business situations.

COURSE OUTCOMES (CO's):

Upon completion of this course, the student will be able to:

COs	Course outcomes	Blooms Level
CO1	Prepare documents and reports for the organization.	K3
CO2	Prepare datasheet and apply the built-in functions for analyzing the data to support decision making	K3
CO3	Utilize visual aids and tools to present the data	K3
CO4	Design the presentations for the business meetings	K4
CO5	Store, retrieve data and make decisions based on the information and employ Computer on real life business situations	K5
K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 – Create		

UNIT I: APPLICATIONS OF MS OFFICE IN BUSINESS	**3T+7P=10 HOURS**
Fundamental features of MS office tools - Importance of MS Office in business organizations - Advantages of computer-based office management **Activity / Practical Component:** • Create and edit documents. • Apply text formatting techniques. • Insert page numbers, headers, and footers. • Perform spell checking and document corrections. • Use Find and Replace option for editing documents.	
UNIT II: MS WORD	**3T+12P=15 HOURS**
Features – Procedures for formatting text, paragraph alignment, Header, Footer, Page setup and styles – Functions of Mail Merge – Using options for Spell Check.	

Activity / Practical Component:

- Prepare a Auditors report/ Minutes/ agenda
- Design invitations, brochures, and notices using WordArt, Shapes, and Text Boxes.
- Create and edit tables for schedules, reports, and office documents.
- Prepare a shareholder 'meeting letter (notice) for 10 members using mail merge operation.

UNIT III: MS EXCEL	**3T+17P=20 HOURS**

Worksheet fundamentals-cells, rows, columns-Entering& editing data in work sheet -Mathematical functions in Excel -Preparing charts, graphs & data analysis using MS Excel.

Activity / Practical Component:

- Creating an excel sheet and performing all formatting tools and protecting and printing the file.
- Performing statistical functions,
- Performing financial functions,
- Performing date and text function
- Filtering the data,
- Conditional formatting
- Charts, Chart Layout and style, Other chart options
- IF Function,
- VLookup Function and Hlook up,
- What if Analysis – solver,

UNIT IV: POWER POINT PRESENTATION	**3T+12P=15 HOURS**

Features & uses PPT in Business -Creating new presentation-slides-Formatting slides& applications.

Activity / Practical Component:

• Create presentation slides using themes and templates.
• Design product presentation slides with pictures and animations.
• Create organization charts for company hierarchy.
• Apply slide transitions and animation effects in presentations.
• Insert pictures, clip arts, audio, and WordArt in slides.
• Design seminar and business presentation slides using formatting tools.

UNIT V: GOOGLE DRIVE APPLICATIONS	**3T+12P=15 HOURS**

Google Drive: Files in Google Drive, form creation, sending and receiving responses using Google Forms.

Activity / Practical Component:

- Create and organize files using Google Drive.
- Share documents and folders through cloud storage.
- Design online forms for data collection.
- Collect and analyze responses using Google Forms.
- Collaborate with users through shared documents.
- Manage online records for academic and business purposes.

TOTAL: 75 HOURS

Suggested AI Tools / Software Tools

AI Tools / Software Tools	Purpose
Microsoft Word	Used to create, edit, and format business documents such as letters, reports, notices, agendas, minutes, and mail merge documents with professional layouts.
Microsoft Excel	Used for data entry, calculations, statistical and financial analysis, charts, conditional formatting, What-If Analysis, VLOOKUP/HLOOKUP, and business data management.
Microsoft PowerPoint	Used to create professional business presentations with themes, templates, animations, transitions, SmartArt, charts, and multimedia elements.
Google Drive	Cloud-based storage platform used to create, organize, share, and collaborate on documents, spreadsheets, presentations, and folders in real time.
Google Forms	Used to design online surveys, quizzes, feedback forms, and collect, analyze, and export responses efficiently.
Microsoft Copilot	AI-powered assistant that helps generate documents, summarize content, create presentations, analyze Excel data, and automate routine Office tasks.
ChatGPT	Assists in drafting business documents, generating presentation content, explaining MS Office features, solving Excel formulas, and providing learning support.
Canva AI	Used to design professional presentations, brochures, posters, invitations, and business communication materials with AI-assisted templates.
Grammarly	AI writing assistant used to improve grammar, spelling, punctuation, clarity, and professionalism in business documents and reports.

TEXT BOOKS:

1. Wayne L. Winston, (2017), Microsoft Excel 2016 - Data Analysis and Business Modeling, Prentice Hall India Learning Private Limited, New Delhi
2. Faithe Wempen (2016), Microsoft Office 2016 at Work for Dummies, Wiley India,New Delhi

REFERENCE BOOKS:

1. Dinesh Maidasani (2015), Learning Computer Fundamentals, MS Office and Internet& Web Technology, 3rd Edition, Laxmi Publications, New Delhi.
2. John Walkenbach (2015), Microsoft Excel 2016 Bible: The Comprehensive Tutorial Resource, Wiley India, New Delhi.

WEBSITES:

1. Microsoft Excel Support
2. Excel Easy
3. TutorialsPoint Excel Tutorial
4. Corporate Finance Institute Excel Resources
5. NPTEL

JOURNALS:

1. *International Journal of Business Analytics*
2. *Journal of Financial Data Science*

3. *International Journal of Information Systems*
4. *Journal of Business Intelligence and Analytics*
5. *Journal of Management Information Systems*

CO, PO, PSO Mapping

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PO13	PO14	PO15	PSO1	PSO2
CO1	3	-	-	-	-	-	2	-	-	-	1	-	-	-	-	3	2
CO2	3	-	3	3	-	-	1	-	-	-	1	-	-	-	-	3	2
CO3	3	-	-	-	-	2	-	-	-	3	2	-	-	-	-	3	3
CO4	3	-		2	2	-	-	-	-	-	3	-	-	-	-	3	2
CO5	3	-	3	3	2	1	-	-	1	-	3	-	-	2	3	3	3
Average	**3**	**-**	**3**	**2.7**	**2**	**1.5**	**1.5**	**-**	**1**	**3**	**2**	**-**	**-**	**2**	**3**	3	2

1 - Low, 2 - Medium, 3 - High, '-' - No Correlation

PREREQUISITE:

- Basic understanding of algebra, calculus and introductory statistics is required.

COURSE OBJECTIVES (CO):

- To develop fundamental mathematical and statistical skills required for business decision-making, including matrices, calculus, and statistical measures.
- To apply analytical techniques such as differentiation, correlation, and statistical measures to solve real-world business problems.
- To analyze and interpret time-based and statistical data using index numbers and time series methods for economic and business insights.

COURSE OUTCOMES(COs):

Upon completion of this course, the student will be able to:

COs	Course Outcomes	Blooms Level
CO1	Perform matrix algebra operations using the basic concepts and types of matrices.	K3
CO2	Differentiate various functions using appropriate rules of differentiation.	K3
CO3	Calculate statistical measures such as mean, median, mode, and standard deviation for given data sets.	K3
CO4	Analyze the relationship between two variables using correlation techniques.	K4
CO5	Analyze simple and weighted index numbers to compare and interpret trends using time-series data.	K4
K1 - Remember; **K2** - Understand; **K3** - Apply; **K4** - Analyze; **K5** - Evaluate; **K6** – Create		

UNIT I: MATRICES AND BASIC MATHEMATICS OF FINANCE	**10T+6P=16 HOURS**
Definition of a matrix -Types of matrices - Algebra of matrices - Calculation of values of determinants up to third order - Adjoint of a matrix - Finding inverse of a matrix through adjoint - Rates of interest: Simple and compound interest. **Practical:** 1. Calculation of Matrix Operations 2. Calculation of Inverse of Matrix	
UNIT II: DIFFERENTIAL CALCULUS	**9T+6P=15 HOURS**
Mathematical functions and their types - Concepts of limit - Concept of differentiation: Rules of differentiation – simple standard forms – Simple problems - Applications of differentiation: Maxima and Minima of functions (involving second or third order derivatives) relating to cost, revenue and profit. **Practical:** • Calculation of limit of a function • Calculation of Rate of Change in linear function	

UNIT III: UNI-VARIATE ANALYSIS	10T+6P=16 HOURS
Measures of Central Tendency: Arithmetic mean - median – mode. Measures of Variation: Range - Standard Deviation - Coefficient of variation. **Practical:** 1. Calculation of Mean, Median and Mode 2. Calculation of Standard Deviation	
UNIT IV: BIVARIATE ANALYSIS	**8T+6P=14 HOURS**
Simple Linear Correlation Analysis: Meaning and measurement – Scatter Diagram - Karl Pearson's co-efficient and Spearman‘s rank correlation coefficient. **Practical:** 1. Calculation of Karl Pearson’s Correlation co-efficient 2. Calculation of Spearman‘s rank Correlation co-efficient	
UNIT V: TIME-BASED DATA: INDEX NUMBERS AND TIME-SERIES ANALYSIS	**8T+6P=14 HOURS**
Meaning and uses of index numbers - Construction of index numbers - Aggregative and average of relatives – simple and weighted - Components of time series - additive and multiplicative models - Trend analysis: Finding trend by moving average method. **Practical:** 1. Calculation of Index Numbers 2. Calculation of Time series	

TOTAL: 75 HOURS

Suggested AI Tools / Software Tools

AI Tools / Software Tools	Purpose
PSPP	PSPP helps to easily, accurately calculate and analyse statistical data.
R-Programming	R Programming is used to perform matrix operations, visualize mathematical functions, calculate derivatives, analyze statistical data, compute correlation, construct index numbers and identify patterns, trends in time-based data to support forecasting and better decision making.

TEXT BOOKS:

1. Sharma, J. K. (2019), *Business Statistics*, 5th Edition, Vikas Publishing House, NewDelhi.
2. Navaneetham, P. A. (2019), *Business Mathematics and Statistics*, Jai Publishers, Trichy.
3. Arora, S., & Malik, L. (2020), *R Programming for Beginners*, 1st Edition, University Press, Hyderabad.

REFERENCE BOOKS:

1. Ghosh, S., & Sinha, S. (2018), *Business Mathematics and Statistics*, 1st Edition, Oxford University Press, New Delhi.
2. Manna, A. K. (2018), *Business Mathematics and Statistics*, 1st Edition, McGraw Hill Education, New Delhi.
3. Gupta, S.P., and Gupta, P.K. (2022), *Business Statistics and Business Mathematics*, 5th Edition, Sultan Chand and Sons Publishing, New Delhi.
4. Mariappan. (2015), *Business Mathematics*, 1st Edition, Pearson Education, New Delhi.

WEB SITES:

1. https://youtu.be/mHwp-yg6MrU?si=swCrT9okNSyqpT2w
2. https://youtu.be/RALOqYe9JEI?si=azEi8WlyNcNb1H4u
3. https://youtu.be/G5FkaxWBtkM?si=pkG9VlBr4CJ8SFk9

CO, PO, PSO Mapping

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PO13	PO14	PO15	PSO1	PSO2
CO1	3	-	2	3	2	-	-	2	-	-	1	-	-	-	1	1	-
CO2	3	-	2	3	2	-	-	2	-	-	1	-	-	-	1	1	-
CO3	3	-	2	2	2	-	-	2	-	-	1	-	-	-	1	2	1
CO4	3	-	3	3	3	-	-	3	-	-	1	-	-	-	1	2	1
CO5	3	-	2	2	3	-	-	3	-	-	1	-	-	-	3	2	2
Average	**3**	**-**	**2.2**	**2.6**	**2.4**	**-**	**-**	**2.4**	**-**	**-**	**1**	**-**	**-**	**-**	**1.4**	**1.6**	**1.3**

1 - Low, 2 - Medium, 3 - High, '-' - No Correlation

Category: SEC **Semester I**

26SEC101G **Logical Reasoning and Analytical Skills** **2H-2C**

Instruction Hours / Week: L:2 T: 0 P: 0 **Marks:** Internal**: 100** External**: 00** Total**: 100**

End Semester Exam:3 Hours

COURSE OBJECTIVES (CO):

- To develop logical thinking skills through sequence recognition, coding-decoding, analogies, and pattern identification.
- To enhance analytical reasoning abilities for solving direction, blood relation, and arrangement-based problems.
- To strengthen positional and problem-solving skills through puzzles, inequalities, and data arrangement techniques.
- To improve visual reasoning and deductive analysis using syllogisms, image analysis, cubes, and dice.
- To apply deductive logic techniques in solving clock, calendar, and data sufficiency problems effectively

COURSE OUTCOMES (COs):

Upon completion of this course, the student will be able to:

COs	Course Outcomes	Blooms Level
CO1	Apply logical reasoning techniques to solve sequence and coding problems	K3
CO2	Analyze direction and blood relation problems	K4
CO3	Examine arrangements, inequalities, and puzzles	K4
CO4	Evaluate visual and analytical reasoning scenarios	K5
CO5	Formulate solutions using deductive logic techniques	K6
K1 - Remember; **K2** - Understand; **K3** - Apply; **K4** - Analyze; **K5** - Evaluate; **K6** – Create		

UNIT I: LOGICAL REASONING-SEQUENCE & PATTERN RECOGNITION **10 HOURS**

Number Series: Identifying the logic behind numerical progressions - Arithmetic Series - Geometric Series - Difference Series - Division series - Square or cube series - Mixed series - Wrong number in series. Coding and Decoding: Understanding rules used to encrypt words or numbers – Number coding – Letter coding – Symbol coding – Substitution coding – Message coding. Odd Man Out and Analogy: Recognizing similarities and differences between sets of data – Based on Numbers – Letters – Words. Logical Sequence of Words: Arranging words in a meaningful or chronological order – Arrangements of events – Arrangement of value – Arrangement as per English dictionary - 'Part' to 'Whole' arrangement of things.

UNIT II: ANALYTICAL REASONING AND POSITIONAL REASONING **10 HOURS**

Direction: Tracking movement and final positions within a spatial grid - Based on the Final Directions - Based on Distance - The directions of sun rays and shadow - The correct map v/s wrong map - Directions in Clocks and angles. Blood Relation: Deciphering complex family trees and generational links - Based on conversation / Dialogue - Coded relation - Based on Puzzles. Data Arrangement: Organizing people or objects in linear or

circular formats – Linear arrangements – Circular arrangements – Arrangements in Polygons – Distribution. Puzzles: Solving multi-variable problems (e.g., floor-based or day-based puzzles). Inequalities: Determining the relationship between different mathematical variables.

UNIT III: VISUAL REASONING, ANALYTICAL AND DEDUCTIVE LOGIC 10 HOURS

Image Analysis: Identifying patterns, mirror images, or water images in figures. Syllogism: Testing the validity of conclusions based on given premises. Cube and Dice: Visualizing the different faces and orientations of 3D objects. Clocks: Calculating angles, mirror times, and gain/loss of time. Calendar: Finding specific days of the week for past or future dates. Data Sufficiency: Deciding if provided information is enough to reach a specific answer.

TOTAL: 30 HOURS

Suggested AI Tools / Software Tools

AI Tools / Software Tools	Purpose
Wolfram Alpha	Mathematical reasoning and analytical problem solving.
Quizizz AI	Aptitude quizzes and reasoning assessments.
Khan Academy AI Tutor	Practice exercises and logical reasoning tutorials.

TEXT BOOKS:

1 Aggarwal, R. S. (2023). *A modern approach to verbal and non-verbal reasoning* (Revised ed.). S. Chand Publishing.

2 Aggarwal, R. S. (2023). *Quantitative aptitude for competitive examinations* (Revised ed.). S. Chand Publishing.

3 Gupta, A. (2022). *Logical and analytical reasoning*. Wiley India Pvt. Ltd.

REFERENCE BOOKS:

1 Sharma, M. K. (2021). *How to prepare for logical reasoning for CAT* (8th ed.). McGraw Hill Education.

2 Sijwali, B. S., & Sijwali, I. M. (2022). *A new approach to reasoning: Verbal and non-verbal*. Arihant Publications.

3 Tyra, K. K. (2021). *Analytical reasoning*. BSC Publishing Co. Pvt. Ltd.

4 Kumar, N. (2022). *Logical reasoning and data interpretation for competitive examinations*. Pearson Education India.

5 Thorpe, E. (2021). *Test of reasoning* (6th ed.). Pearson Education.

6 Chopra, V. (2022). *Logical reasoning and problem solving*. Oxford University Press.

CO, PO, PSO Mapping

CO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12	PO 13	PO 14	PO 15	PSO 1	PSO 2
CO1	3	2	2	1	2	-	-	-	-	1	-	2	2	1	2	3	2
CO2	3	3	2	2	2	-	-	-	1	1	-	2	2	1	2	3	2
CO3	3	3	3	2	2	-	-	-	-	1	1	2	2	1	2	3	3
CO4	2	2	2	3	2	-	-	-	-	1	-	2	2	1	2	2	3
CO5	3	3	3	2	3	-	1	-	2	2	-	3	3	2	3	3	3
Average	3	3	2	2	2	-	1	-	1	1	1	2	2	1	2	3	3

1 - Low, 2 - Medium, 3 - High, '-' - No Correlation

26VAC101G **Yoga For Youth Empowerment** **3H-2C**

Instruction Hours / Week: L: 1 T: - P: 2 **Marks:** Internal**: 100** External**: -** Total**: 100**

End Semester Exam: -

COURSE OBJECTIVES (CO):

- Create awareness about Yoga and Physical Health.
- Providing value education to improve the students character understanding greatness of life force and Mind.
- Know about five aspects of life and to develop good Qualities and eliminating bad ones.
- Learning introspection practices like analysis of Thought, Moralization of Desires, Neutralization of Anger and Eradication of Worries Diversity in men (Why Men Differ)
- To understand about the yoga, life and practice Yogasanas

COURSE OUTCOMES (COs):

Upon completion of this course, the student will be able to:

COs	Course Outcomes	Blooms Level
CO1	Understand the concepts of about Yoga and Physical Health	K2
CO2	Analyze the concepts the greatness of Life Force and Mind	K4
CO3	Apply the knowledge on personality Development - Sublimation	K3
CO4	Apply Human Resource Development practices in daily life.	K3
CO5	Understand about the yoga, life and Law of Nature	K2
K1 - Remember; **K2** - Understand; **K3** - Apply; **K4** - Analyze; **K5** - Evaluate; **K6** – Create		

UNIT I: YOGA AND PHYSICAL HEALTH **6 HOURS**

Manavalakalai (SKY) Yoga: Manavalakalai (SKY) Yoga: Introduction - Education as a means for youth empowerment - greatness of education yoga for youth empowerment. Simplified physical exercises hand, leg, breathing, eye exercises kapabathi, makarasana part 1, makarasana part 2, body massage, acupressure relaxation exercises and its benefits yogasanas: suryanamaskar 12 cycle pranayama, Asanas. [sitting and standing] meditation – Agna, explanation of initiation practice and its benefits

UNIT II: GREATNESS OF LIFE FORCE AND MIND **6 HOURS**

Kayakalpa Aim of kayakalapa, philosophy, physical body, sexual vital fluid life force bio magnetism mind. Maintaining youth fullness, postponing old age, food transformation into seven minerals, the importance of sexual vital fluid measure and method of five aspects of life controlling undue passion. Kayakalpa Practice: Aswini Mudra, Ojas Breath, benefits of Kayakalpa Development of mind in ten stages. Mental frequencies: Meditation-five essential qualities acquired through meditation, Types of meditation, Agna, Shanthi, Thuriya and its Benefits.

UNIT III: PERSONALITY DEVELOPMENT – SUBLIMATION **6 HOURS**

Purpose and philosophy of life- Needs protection, Ethics and wisdam. Introspection: importance of thought, six roots for thought, maneuvering of six Temperaments, Analysis of Thought, moralization of Desires. Neutralization of Anger.

UNIT IV: HUMAN RESOURCE DEVELOPMENT **6 HOURS**

Eradication of worries: Reasons for worries, four types of worries, Practice for eradication of worries. Benefits of Blessings: effect of good vibration self - blessing (Auto suggestion), Family blessing others, world blessing, Divine protect, Human Values: greatness of Friendship, Individual peace to World Peace

UNIT V: LAW OF NATURE **6 HOURS**

Unified force, cause and effect system, gentle Center, Purification of gentile center, Love and Compassion. Culture values: Types of Education Non- violence and fivefold moral culture, Truth, honesty, patience. Excuse, self- control, obedience, consistent effort, no feeling jealousy, pleasant and polite, see good in everything.

YOGA PRACTICES: Thandasana Chakrasana (sideways) Vruchasana Thirikonasana Varasana

TOTAL: 30 HOURS

Suggested AI Tools / Software Tools

AI Tools / Software Tools	Purpose
Mindgrasp AI	Generating study notes and quizzes from yoga and value education content

TEXT BOOKS:

1 World Community Service Centre (WCSC) (2020). *Yoga for youth empowerment: Value education*. World Community Service Centre, Aliyar.

REFERENCE BOOKS:

1 Iyengar, B. K. S. (2005). *Light on yoga*. HarperCollins Publishers.

2 Maharishi, V. (1999). *Kayakalpa*. World Community Service Centre.

3 Maharishi, V. (2003). *Manavalakalai: Part I*. World Community Service Centre.

4 Maharishi, V. (2005). *Manavalakalai: Part II*. World Community Service Centre.

5 Maharishi, V. (2006). *Mind*. World Community Service Centre.

6 Chandrasekaran, D. (2010). *Sound health through yoga*. World Community Service Centre.

7 Pope, G. U. (Trans.). (2001). *The Tirukkural.* Asian Educational Services.

WEBSITES:

1 https://ayush.gov.in

2 https://www.svyasa.edu.in/

CO, PO, PSO Mapping

CO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12	PO 13	PO 14	PO 15	PSO 1	PSO 2
CO1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	2	2
CO2	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	2	2
CO3	-	-	-	-	-	-	-	-	-	-	-	-	-	3	-	3	2
CO4	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	3	3
CO5	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-	3	3
Average	-	-	-	-	-	-	-	-	2	-	2	2	-	3	3	3	2

1 - Low, 2 - Medium, 3 - High, '-' - No Correlation

Category: VAC **SEMESTER I**

26VAC102G **Beauty Artistry - Basic Level** **3H-2C**

Instruction Hours / Week: L: 1 T: - P: 2 **Marks:** Internal**: 100** External**: -** Total**: 100**

End Semester Exam: -

COURSE OBJECTIVES (CO):

- Acquire knowledge of skin care fundamentals.
- Develop skills in hair care and hairstyling
- Apply professional makeup techniques
- Demonstrate saree draping techniques
- Strengthen personal grooming and professional presentation skills.

COURSE OUTCOMES (COs):

Upon completion of this course, the student will be able to:

COs	Course Outcomes	Blooms Level
CO1	Identify different skin and hair types and perform basic care routines.	K2
CO2	Demonstrate fundamental hair care and basic hairstyling techniques.	K3
CO3	Apply professional makeup techniques suitable for various occasions.	K4
CO4	Perform saree draping using traditional and professional styles.	K5
CO5	Exhibit professional grooming, presentation skills, and workplace etiquette for careers in the beauty and wellness industry.	K2
K1 - Remember; **K2** - Understand; **K3** - Apply; **K4** - Analyze; **K5** - Evaluate; **K6** – Create		

UNIT I : PROFESSIONAL MAKEUP TECHNIQUES **6 HOURS**

Introduction to the beauty and wellness industry. Professional safety and hygiene practices. Personal appearance and professional etiquette. Professional environment and communication skills. Salon equipment, tools, and time management. Introduction to skin science, facial anatomy, skin types, face shapes, and personal grooming. Product knowledge and professional ethics in salon services.

UNIT II: SKIN CARE AND FACIAL TREATMENTS **6 HOURS**

Structure and functions of the skin. Skin analysis and consultation procedures. Eyebrow shaping, measurement, threading techniques, and practical applications. Waxing methods – honey wax, soft wax, and hard wax. Hair removal techniques and precautions. Cleansing, toning, exfoliation, extraction, massage, masques, and complete facial procedures. Demonstration and practical training in facial treatments.

UNIT III: HAIR CARE AND HAIR STYLING **6 HOURS**

Hair science and hair growth cycle. Hair care principles and product knowledge. Hair cutting theory and types of layers. Hair preparation techniques and use of styling products. Hair styling methods including out-curl

setting, ironing, curling, crimping, blow drying, self-blow drying, ponytail styles, bun styles, and South Indian braid techniques. Practical training in hair styling and maintenance.

UNIT IV: MAKEUP ARTISTRY **6 HOURS**

Skin analysis for makeup application. Face shapes and color theory. Brush types and usage. Cleansing, Toning, Moisturizing, Protection (CTMP). Foundation application, highlighting and contouring techniques. Blush application, eye and lip correction methods. Day party makeup, evening party makeup, and corporate look makeup. Demonstration and practical sessions in professional makeup techniques.

UNIT V: SAREE DRAPING AND BRIDAL STYLING **6 HOURS**

Importance of saree draping in personal and professional grooming. Body measurement techniques. Pre-pleating, ironing, and box folding methods. South Indian saree draping styles and contemporary draping techniques. Coordination of hairstyle, makeup, and saree draping for special occasions. Demonstration and practical training in saree draping and complete bridal styling.

TOTAL: 30 HOURS

Suggested AI Tools / Software Tools

AI Tools / Software Tools	Purpose
L'Oréal Beauty Genius	AI-powered skin analysis and personalized skincare recommendations

TEXT BOOKS:

1 Milady. (2023). *Standard Esthetics: Fundamentals*, 12th Edition, Milady, Cengage Learning

REFERENCE BOOKS:

1 Nordmann, L. (2019). *Beauty therapy: The foundations* (4th ed.). Cengage Learning.

2 Cressy, S. (2015). *Beauty therapy fact file* (6th ed.). Hodder Education.

WEBSITES:

1 https://www.lorealprofessionnel.com

2 https://www.youcamapps.com

CO, PO, PSO Mapping

CO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12	PO 13	PO 14	PO 15	PSO 1	PSO 2
CO1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	3	2
CO2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	3	2
CO3	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	3	3
CO4	-	-	-	-	-	-	-	-	-	-	-	2	-	-	3	3	3
CO5	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-	3	3
Average	-	-	-	-	-	-	2	-	-	-	-	2	-	-	3	3.0	2.6

1 - Low, 2 - Medium, 3 - High, '-' - No Correlation

B.Com. (Information Technology) **2026-2027**

Category: VAC **SEMESTER I**

26VAC103G **Swara Gaanam (Music) - Basic Level** **3H-2C**

Instruction Hours / Week: L: 1 T: - P: 2 **Marks: Internal: 100 External: - Total: 100**

End Semester Exam: -

COURSE OBJECTIVES (CO):

- Introduce the fundamental concepts and terminology of Indian music.
- Develop an understanding of Sruti, Swara, Stayi, Ragam, and Talam.
- Familiarize learners with selected devotional songs dedicated to various deities.
- Cultivate basic singing skills, rhythm sense, and musical expression.
- Promote appreciation of Indian cultural heritage through devotional and patriotic music.

COURSE OUTCOMES (COs):

Upon completion of this course, the student will be able to:

COs	Course Outcomes	Blooms Level
CO1	Recall the basic concepts and terminology of Indian music including Sruti, Swara, Stayi, Ragam, and Talam.	K1
CO2	Explain the significance of patriotic and devotional songs in Indian culture and tradition.	K2
CO3	Demonstrate the ability to sing Devi and Murugan devotional songs with correct melody and rhythm.	K3
CO4	Perform Krishna, Hanuman, and Ayyapan devotional songs using appropriate musical techniques.	K3
CO5	Analyze the musical structure, rhythmic patterns, and devotional elements present in selected songs.	K4
K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 – Create		

UNIT I: BASIC THEORY OF INDIAN MUSIC **6 HOURS**

Introduction – Musical terms – Sruti – Sapta Swaras – Stayi – Ragam – Talam Patriotic Song – (Tamizh Tai Vazhthu and National Anthem)

6 HOURS

UNIT II: DEVI SONGS

Amme Narayana

Durge Durge Jai Jai ma

6 HOURS

UNIT III: MURUGAN SONGS

Velava Velava

Theeyaga Thondri

6 HOURS

UNIT IV: KRISHNA SONGS

Vishamakara kannan

Silangai Katti

6 HOURS

UNIT V: HANUMAN AND AYYAPAN SONGS

Maruthi Jaya Maruthi

Bhagavan saranam

TOTAL: 30 HOURS

Suggested AI Tools / Software Tools

AI Tools / Software Tools	Purpose
Suno AI	Melody generation and devotional music experimentation
Moises AI	Vocal separation and practice tracks
Musicca	Interactive music theory exercises
AIVA AI	AI-assisted music composition

TEXT BOOKS:

1. Sambamoorthy, P. (2018). *South Indian music* (Book I). The Indian Music Publishing House.
2. Sambamoorthy, P. (2016). *A dictionary of South Indian music and musicians*. The Indian Music Publishing House.
3. Bhagyalekshmy, S. (2010). *Ragas in Carnatic music*. CBH Publications

REFERENCE BOOKS:

1. Sambamoorthy, P. (2012). *Elements of Indian music.* The Indian Music Publishing House.
2. Viswanathan, T., & Cormack, M. (1998). *An introduction to Indian music.* Wesleyan University Press.
3. Subramanian, L. (2006). *From the Tanjore court to the Madras Music Academy: A social history of music in South India*. Oxford University Press.
4. Pesch, L. (2009). *The Oxford illustrated companion to South Indian classical music*. Oxford University Press.
5. Narayan, S. (2011). *Carnatic music for beginners*. Giri Trading Agency.

WEBSITES:

1. https://sangeetnatak.gov.in
2. https://musicacademymadras.in/
3. https://www.carnatica.net/

CO, PO, PSO Mapping

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PO13	PO14	PO15	PSO1	PSO2
CO1	3	-	-	-	-	-	-	-	-	-	-	-	-	-	2	2	1
CO2	-	-	-	-	-	-	-	-	-	-	-	-	2	-	1	3	2
CO3	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	3	2
CO4	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	3	3
CO5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	3	3
Average	3	-	2	-	2	-	-	-	-	-	-	-	2	-	1.7	2.8	2.2

1 - Low, 2 - Medium, 3 - High, '-' - No Correlation

26VAC104G **Freestyle Fusion (Dance) - Basic Level** **3H-2C**

Instruction Hours / Week: L: 1 T: - P: 2 **Marks:** Internal**: 100** External**: -** Total**: 100**

End Semester Exam: -

COURSE OBJECTIVES (CO):

- Provide fundamental knowledge of dance techniques, styles, and movement principles.
- Develop practical skills in Hip-Hop dance and musicality.
- Enhance creativity through choreography and performance techniques
- Introduce the basics of music and video editing for dance presentation
- Foster confidence, teamwork, and stage performance skills through practical training

COURSE OUTCOMES (COs):

Upon completion of this course, the student will be able to:

COs	Course Outcomes	Blooms Level
CO1	Demonstrate fundamental stretching, rhythm, and dance movements	K3
CO2	Demonstrate basic Hip-Hop techniques and musicality with coordination.	K3
CO3	Apply choreography techniques to create and perform dance routines.	K3
CO4	Utilize basic music and video editing tools for dance presentations.	K5
CO5	Perform confidently on stage with effective presentation and teamwork	K4
K1 - Remember; **K2** - Understand; **K3** - Apply; **K4** - Analyze; **K5** - Evaluate; **K6** – Create		

UNIT I: INTRODUCTION TO DANCE **6 HOURS**

Introduction to dance and its significance, fundamentals of dance, body posture and alignment, warm-up and cool-down exercises, flexibility and coordination, rhythm and timing, basic dance terminology.

6 HOURS

UNIT II: HIP - HOP FUNDAMENTALS AND MUSICALITY

Introduction to Hip-Hop dance, history and evolution, basic Hip-Hop movements, Hip-Hop elements, grooves and footwork, isolations, balance and coordination, musicality, rhythm recognition, counting beats, synchronization with music.

UNIT III: CHOREOGRAPHY TECHNIQUES **6 HOURS**

Principles of choreography, movement composition, formation and transitions, expression and stage presence, teamwork in group choreography, performance techniques, rehearsal methods, creativity and improvisation.

UNIT IV: PERFORMANCE, MUSIC AND VIDEO EDITING **6 HOURS**

Stage presentation and performance etiquette, costume selection, facial expressions and audience engagement, basics of music editing, introduction to audio editing software, fundamentals of video editing.

UNIT V: PRACTICAL TRAINING AND FINAL SHOWCASE **6 HOURS**

Practice sessions, choreography execution, performance evaluation, practical assessment, theory assessment, preparation for final showcase, group and individual performances, feedback and continuous improvement.

TOTAL: 30 HOURS

Suggested AI Tools / Software Tools

AI Tools / Software Tools	Purpose
CapCut AI Tools	Edit dance videos, add effects, and analyze performance recordings.

TEXT BOOKS:

1 Smith-Autard, J. M. (2014). *Dance composition: A practical guide to creative success in dance making* (6th ed.). Bloomsbury Publishing.

2 Giguere, M. (2014). *Beginning modern dance*. Human Kinetics.

3 Kent, A. (2006). *The dancer's body book*. University of California Press.

REFERENCE BOOKS:

1 Gilbert, A. G. (2015). *Creative dance for all ages* (2nd ed.). Human Kinetics.

2 Haas, J. G. (2010). *Dance anatomy*. Human Kinetics.

3 McCutchen, B. P. (2006). *Teaching dance as art in education*. Human Kinetics.

4 Sutil, N. S. (2015). *Learning about dance: Dance as an art form and entertainment* (8th ed.). Kendall Hunt Publishing.

5 Blom, L. A., & Chaplin, L. T. (1988). *The intimate act of choreography*. University of Pittsburgh Press.

6 Minton, S. C. (2017). *Choreography: A basic approach using improvisation* (4th ed.). Human Kinetics.

WEBSITES:

1 https://fusiondanceacademy.in

2 https://www.fusionfitnessanddance.com

3 https://www.newfusiondance.com

CO, PO, PSO Mapping

CO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12	PO 13	PO 14	PO 15	PSO 1	PSO 2
CO1	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CO2	-	-	-	-	-	-	3	-	-	-	-	-	-	-	-	-	-
CO3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-
CO4	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-
CO5	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-
Average	3	-	-	-	-	-	2.5	-	-	2	-	-	-	-	2	-	-

1 - Low, 2 - Medium, 3 - High, '-' - No Correlation

26VAC105G **Aari Embroidery Techniques** **3H-2C**

Instruction Hours / Week: L: 1 T: - P: 2 **Marks:** Internal**: 100** External**: -** Total**: 100**

End Semester Exam: -

COURSE OBJECTIVES (CO):

- Provide knowledge of Aari embroidery techniques, tools, and materials.
- Develop skills in frame setup, tracing, and embroidery execution.
- Train learners in basic and advanced hand and zari stitches.
- Enhance creativity in embroidery design development
- Promote entrepreneurship opportunities through Aari embroidery

COURSE OUTCOMES (COs):

Upon completion of this course, the student will be able to:

COs	Course Outcomes	Blooms Level
CO1	Understand the fundamentals, materials, and techniques of Aari embroidery.	K2
CO2	Demonstrate frame setup, tracing, and basic embroidery skills.	K3
CO3	Apply various hand embroidery and zari stitch techniques.	K3
CO4	Develop creative embroidery designs using traditional and modern methods.	K5
CO5	Apply embroidery skills for product development and entrepreneurship.	K3
K1 - Remember; **K2** - Understand; **K3** - Apply; **K4** - Analyze; **K5** - Evaluate; **K6** – Create		

UNIT I : INTRODUCTION TO AARI EMBROIDERY AND MATERIALS **6 HOURS**

Introduction to Aari embroidery, history and significance, scope and applications, embroidery tools and materials, types of fabrics, embroidery threads, zari, beads, stones, needles, frames, and selection of suitable materials for embroidery work

UNIT II: FRAME SETUP AND DESIGN TRANSFER TECHNIQUES **6 HOURS**

Embroidery frame setup, cloth fixing techniques, handling of Aari needle and tools, tracing methods, manual tracing, carbon transfer techniques, design preparation, pattern selection, and basic embroidery preparation methods.

UNIT III: BASIC HAND EMBROIDERY STITCHES **6 HOURS**

Introduction and practice of basic embroidery stitches: running stitch, back stitch, stem stitch, chain stitch, lazy daisy stitch, satin stitch, couching stitch, leaf stitch, French knot, long French knot, ring knot, bullion knot, and fish bone stitch.

UNIT IV: ADVANCED THREAD AND ZARI EMBROIDERY TECHNIQUES **6 HOURS**

Introduction to thread and metallic zari work, advanced stitch techniques including chain stitch, end knot, double chain stitch, waves stitch, shapes, zig-zag stitch, cut work, stem stitch, back chain stitch, long and short stitch, water filling, satin stitch, emboss satin stitch, butterfly stitch, buttonhole stitch, double buttonhole stitch, and Y-buttonhole stitch..

UNIT V: CREATIVE EMBROIDERY DESIGN AND APPLICATIONS **6 HOURS**

Combination of embroidery stitches, motif development, decorative patterns, bridal and fashion embroidery techniques, colour combination, finishing methods, quality assessment, product development, and entrepreneurial opportunities in Aari embroidery.

TOTAL: 30 HOURS

Suggested AI Tools / Software Tools

AI Tools / Software Tools	Purpose
Pattern Maker AI Tools	Converting images into embroidery patterns and stitch layouts.

TEXT BOOKS:

1 Asha Rani, M. (2019). *Embroidery and Surface Ornamentation.* 1st Edition, New Age International Publishers.

REFERENCE BOOKS:

1 NCERT. (2024). *Hand embroiderer (Addawala): Apparel, made-ups and home furnishing, Class IX*. PSSCIVE, Bhopal.

2 Sajnani, M. (2001). *Encyclopaedia of tourism resources in India* (Vol. 2). Gyan Publishing House.

WEBSITES:

1 https://siraaari.in

2 https://aariembroideryclass.com

CO, PO, PSO Mapping

CO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12	PO 13	PO 14	PO 15	PSO 1	PSO 2
CO1	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	1
CO2	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	2
CO3	-	-	2	-	2	-	-	-	-	-	-	-	-	-	-	3	2
CO4	-	-	2	-	2	-	-	-	-	-	-	-	-	-	-	3	3
CO5	-	-	-	-	-	-	-	-	-	-	3	-	-	3	3	3	3
Average	2.5	-	2	-	2	-	-	-	-	-	3	-	-	3	3	2.8	2.2

1 - Low, 2 - Medium, 3 - High, '-' - No Correlation

26VAC106G **Computer Repair and Services** **3H-2C**

Instruction Hours / Week: L: 1 T: - P: 2 **Marks:** Internal**: 100** External**: -** Total**: 100**

End Semester Exam: -

COURSE OBJECTIVES (CO):

- Provide fundamental knowledge of computer hardware and system architecture.
- Develop practical skills in PC assembly and hardware configuration
- Impart troubleshooting techniques for computer hardware and peripherals.
- Impart troubleshooting techniques for computer hardware and peripherals.
- Equip learners with preventive maintenance and system optimization skills.

COURSE OUTCOMES (COs):

Upon completion of this course, the student will be able to:

COs	Course Outcomes	Blooms Level
CO1	Understand computer hardware and system architecture.	K2
CO2	Assemble and configure desktop computers.	K3
CO3	Troubleshoot computer hardware faults.	K3
CO4	Install and maintain Windows operating systems.	K4
CO5	Perform system maintenance and optimization.	K3
K1 - Remember; **K2** - Understand; **K3** - Apply; **K4** - Analyze; **K5** - Evaluate; **K6** – Create		

UNIT I : FUNDAMENTALS OF COMPUTER HARDWARE 6 HOURS

Introduction to computer electronics, evolution of computers, computer architecture, block diagram, desktop computer types, number systems, motherboard chipset, input and output devices, storage devices, memory (RAM and ROM), computer ports and connectors, power supply, computer safety, ESD protection, preventive maintenance, and repair tools

UNIT II: PC ASSEMBLY AND BIOS CONFIGURATION 6 HOURS

Motherboard identification, form factors, processor installation, CPU sockets, thermal paste application, CPU cooling systems, RAM installation, storage device installation (HDD, SATA SSD, NVMe SSD), SMPS installation, graphics and expansion cards, cabinet assembly, cable management, BIOS/UEFI configuration, boot settings, Secure Boot, TPM, virtualization, XMP profiles, BIOS update and reset.

UNIT III: HARDWARE TESTING AND TROUBLESHOOTING 6 HOURS

SMPS testing, motherboard voltage testing, CPU and RAM testing, storage device health analysis,

SMART monitoring, GPU and CPU stress testing, temperature and fan monitoring, POST diagnostics, beep codes, boot sequence analysis, troubleshooting power issues, display problems, overheating, hardware failures, peripheral faults, and complete hardware diagnosis.

UNIT IV: OPERATING SYSTEM SETUP **6 HOURS**

Windows installation, bootable USB creation, GPT and MBR partitioning, BIOS and UEFI installation, disk partitioning, Windows activation, driver installation, device manager configuration, Windows updates, user account management, disk management, power management, Windows security, software troubleshooting, recovery tools, backup and restore, and system optimization.

UNIT V: SYSTEM MAINTENANCE AND PRACTICE **6 HOURS**

Computer system maintenance, hardware and software troubleshooting, operating system installation, antivirus protection, data backup and recovery, system optimization and practical repair of desktop and laptop computers. Hands-on training in diagnosing and resolving common computer problems.

TOTAL: 30 HOURS

Suggested AI Tools / Software Tools

AI Tools / Software Tools	Purpose
AIDA64	AI-assisted system diagnostics and hardware monitoring.
TeamViewer	Remote diagnostics and technical assistance.

TEXT BOOKS:

1 Mueller, S. (2023). *Upgrading and repairing PCs* (23rd ed.). Pearson Education.

2 Andrews, J., Dark, J., & West, J. (2022). *CompTIA A+ guide to information technology technical support* (11th ed.). Cengage Learning.

REFERENCE BOOKS:

1 Meyers, M. (2022). *CompTIA A+ certification all-in-one exam guide* (11th ed.). McGraw-Hill Education..

2 Minasi, M. (2019). *The complete PC upgrade and maintenance guide*. Sybex Publications.

3 Groth, D., & Skandier, T. (2021). *Network+ guide to networks* (9th ed.). Cengage Learning.

WEBSITES:

1 https://www.comptia.org

2 https://www.ifixit.com

3 https://www.tomshardware.com

CO, PO, PSO Mapping

CO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12	PO 13	PO 14	PO 15	PSO 1	PSO 2
CO1	3	-	-	-	-	-	-	2	-	-	-	-	-	-	-	3	2
CO2	-	-	2	-	2	-	-	-	-	2	-	-	-	-	-	3	3
CO3	-	-	2	2	2	-	-	-	-	-	-	-	-	-	-	3	3
CO4	-	-	3	-	3	-	-	-	-	-	-	-	-	-	-	2	3
CO5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	3	3
Average	3	-	2.3	2	2.3	-	-	2	-	2	-	-	-	-	2	2.8	2.8

1 - Low, 2 - Medium, 3 - High, '-' - No Correlation

26VAC107G **Mobile Repair and Services** **3H-2C**

Instruction Hours / Week: L: 1 T: - P: 2 **Marks:** Internal**: 100** External**: -** Total**: 100**

End Semester Exam: -

COURSE OBJECTIVES (CO):

- Understand mobile electronics and smartphone architecture.
- Develop skills in mobile assembly and component testing.
- Learn hardware fault diagnosis and repair techniques.
- Acquire knowledge of mobile software installation and troubleshooting
- Develop skills for mobile servicing and entrepreneurship.

COURSE OUTCOMES (COs):

Upon completion of this course, the student will be able to:

COs	Course Outcomes	Blooms Level
CO1	Understand mobile electronics and smartphone components.	K2
CO2	Demonstrate mobile assembling, disassembling, and testing techniques.	K3
CO3	Identify and troubleshoot mobile hardware faults.	K3
CO4	Perform software installation, flashing, and optimization.	K4
CO5	Apply mobile repair skills for professional servicing.	K6
K1 - Remember; **K2** - Understand; **K3** - Apply; **K4** - Analyze; **K5** - Evaluate; **K6** – Create		

UNIT I: FUNDAMENTALS OF MOBILE TECHNOLGY **6 HOURS**

Introduction to mobile electronics, block diagram of smartphones, basic electronic components, mobile accessories, operating systems, mobile applications, innovative mobile applications, and safety precautions in mobile servicing.

UNIT II: MOBILE HARDWARE ASSEMBLY AND COMPONENT TESTING **6 HOURS**

Identification of mobile models and specifications, introduction to mobile repair tools and instruments, mobile phone assembling and disassembling, electronic component testing using digital multimeter, testing of microphone, speaker, ringer, vibrator, LCD display, antenna, battery, and charging components.

UNIT III: MOBILE HARDWARE TROUBLESHOOTING AND REPAIR TECHNIQUES **6 HOURS**

Identification and diagnosis of hardware faults, soldering and de-soldering techniques, hot air lower operation, jumper techniques, replacement of touch screen, LCD display, charging connector, SIM tray, memory tray, headset jack, battery connector, IC replacement, network issues, charging problems, and complete hardware fault diagnosis.

UNIT IV: MOBILE SOFTWARE INSTALLATION AND MANAGEMENT **6 HOURS**

Introduction to mobile software, firmware and flashing concepts, mobile flashing tools, firmware installation, factory reset, data wiping, pattern and password lock removal, SIM lock removal, software unlocking, secret codes, software optimization, and post-flashing verification

UNIT V: MOBILE SOFTWARE TROUBLESHOOTING AND SERVICE MANAGEMENT **6 HOURS**

Troubleshooting boot loop, hanging issues, automatic restart, application errors, virus-affected devices, software performance optimization, mobile testing procedures, quality verification, customer handling, service management, and career opportunities in mobile repair technology.

TOTAL: 30 HOURS

Suggested AI Tools / Software Tools

AI Tools / Software Tools	Purpose
TestM	AI-supported smartphone hardware testing and fault detection.

TEXT BOOKS:

1 Ramesh, S. (2021). *Mobile phone repairing: A complete guide* (1st ed.). BPB Publications.

2 Goyal, S. K. (2020). *Mobile phone repairing and troubleshooting* (1st ed.). Khanna Book Publishing.

REFERENCE BOOKS:

1 Mehta, V. K., & Mehta, R. (2018). *Principles of electronics and mobile communication* (1st ed.). S. Chand Publishing.

2 Kumar, P. (2022). *Smartphone hardware repair and maintenance* (1st ed.). Technical Publications.

WEBSITES:

1 https://forum.gsmhosting.com

2 https://www.phonearena.com

CO, PO, PSO Mapping

CO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12	PO 13	PO 14	PO 15	PSO 1	PSO 2
CO1	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	2
CO2	-	-	3	-	2	-	-	-	-	1	-	-	-	-	-	3	3
CO3	-	-	-	3	2	-	-	-	-	-	-	-	-	-	-	3	3
CO4	-	-	-	2	-	-	-	2	-	-	-	-	-	-	-	2	3
CO5	-	-	-	-	-	-	-	-	-	-	3	-	-	-	3	3	3
Average	3	-	3	2.5	2	-	-	2	-	1	3	-	-	-	3	2.8	2.8

1 - Low, 2 - Medium, 3 - High, '-' - No Correlation

COURSE OBJECTIVES (CO):

- Provide fundamental knowledge about mushroom biology, cultivation, and economic importance
- Develop practical skills in the cultivation of oyster, button, and milky mushrooms.
- Impart knowledge on harvesting, disease management, and quality control practices.
- Familiarize learners with advanced mushroom farming techniques and sustainable practices.
- Enhance entrepreneurial skills for establishing and managing mushroom-based enterprises.

COURSE OUTCOMES (COs):

Upon completion of this course, the student will be able to:

COs	Course Outcomes	Blooms Level
CO1	Understand the basics of mushroom cultivation and its importance.	K2
CO2	Demonstrate the cultivation of oyster, button, and milky mushrooms.	K3
CO3	Apply proper harvesting, storage, and disease management techniques.	K3
CO4	Construct a sustainable mushroom cultivation unit effectively.	K5
CO5	Develop entrepreneurial skills for commercial mushroom production.	K5
K1 - Remember; **K2** - Understand; **K3** - Apply; **K4** - Analyze; **K5** - Evaluate; **K6** – Create		

UNIT I: INTRODUCTION TO MUSHROOM CULTIVATION **6 HOURS**

Introduction to mushrooms, nutritional and medicinal importance, classification of mushrooms, oyster mushroom, button mushroom, and milky mushroom, life cycle of mushrooms, scope and opportunities in mushroom cultivation**.**

UNIT II: CULTIVATION TECHNIQUES **6 HOURS**

Selection of mushroom species, spawn and spawn production, substrate and compost preparation, sterilization and pasteurization techniques, cultivation methods of oyster mushroom, button mushroom, and milky mushroom, spawning, bag preparation, casing techniques, incubation, environmental requirements (temperature, humidity, ventilation, and light), crop management, watering, and maintenance.

UNIT III: HARVESTING, PEST AND DISEASE MANAGEMENT **6 HOURS**

Growth monitoring, harvesting techniques for oyster, button, and milky mushrooms, grading and

quality assessment, post-harvest handling, packaging, storage, shelf-life enhancement, common pests and diseases, contamination by molds and bacteria, integrated pest and disease management, sanitation, hygiene, and quality control measures.

UNIT IV: MUSHROOM FARM MANAGEMENT AND ADVANCED CULTIVATION **6 HOURS**

Mushroom farm establishment, infrastructure requirements, cultivation unit maintenance, environmental control, advanced production techniques, yield enhancement methods, organic mushroom cultivation, spent mushroom substrate management, and sustainable farming practices.

UNIT V: ENTREPRENEURSHIP AND MARKETING **6 HOURS**

Establishment of a small-scale mushroom production unit, infrastructure and equipment requirements, cost estimation, economic analysis, record keeping, branding and packaging, marketing strategies, digital marketing and e-commerce, government schemes and financial assistance, disease detection, production management, and sustainable mushroom farming practices

TOTAL: 30 HOURS

Suggested AI Tools / Software Tools

AI Tools / Software Tools	Purpose
IoT Smart Sensors with AI	Real-time control of growing conditions for improved mushroom yield.

TEXT BOOKS:

1 Sharma, V. P., Annepu, S. K., Gautam, Y., Singh, M., & Kamal, S. (2017). *Status and prospects of mushroom production in India*. ICAR–Directorate of Mushroom Research. Solan, Himachal Pradesh, India.

REFERENCE BOOKS:

1 Gupta, R., & Singh, A. (2024). *Textbook of mushroom cultivation* (1st ed.). Om Publications.

2 Kulshreshtha, S. (2019). *Mushroom cultivation: Development and perspectives* (1st ed.). Studium Press India Pvt. Ltd.

WEBSITES:

1 https://dmr.icar.gov.in

2 https://agricoop.nic.in

3 https://vikaspedia.in/agriculture

CO, PO, PSO Mapping

CO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12	PO 13	PO 14	PO 15	PSO 1	PSO 2
CO1	3	-	-	-	-	-	-	2	-	-	-	-	-	-	-	3	1
CO2	-	-	-	-	-	-	-	-	3	-	-	-	-	-	-	3	2
CO3	-	-	-	2	-	-	-	-	-	-	-	-	-		2	3	2
CO4	-	-	-	-	-	-	-	-	-	-	-	2	-	2	2	3	3
CO5	-	-	-	-	-	-	-	-	-	-	-	2	-	2	2	3	3
Average	3	-	-	2	-	-	-	2	3	-	-	2	-	2	2	3.0	2.2

1 - Low, 2 - Medium, 3 - High, '-' - No Correlation

Category: VAC **SEMESTER I**

26VAC109G **Photography** **3H-2C**

Instruction Hours / Week: L: 1 T: - P: 2 **Marks:** Internal**: 100** External**: -** Total**: 100**

End Semester Exam: -

COURSE OBJECTIVES (CO):

- Provide fundamental knowledge of photography and camera operations.
- Develop practical skills in mirrorless and smartphone photography.
- Enhance understanding of lighting, composition, and exposure techniques.
- Introduce basic cinematography and mobile content creation workflows.
- Equip the learners with portfolio development and professional photography skills.

COURSE OUTCOMES (COs):

Upon completion of this course, the student will be able to:

COs	Course Outcomes	Blooms Level
CO1	Understand the fundamentals of photography and camera operations.	K2
CO2	Apply photographic techniques using mirrorless and smartphone cameras.	K3
CO3	Demonstrate lighting, composition, and exposure techniques.	K3
CO4	Utilize digital image editing and portfolio development skills.	K5
CO5	Apply entrepreneurial practices in professional photography.	K3
K1 - Remember; **K2** - Understand; **K3** - Apply; **K4** - Analyze; **K5** - Evaluate; **K6** – Create		

UNIT I : FOUNDATIONS OF IMAGING **6 HOURS**

Introduction to visual storytelling, evolution of photography, light behaviour, CMOS sensors, Bayer filter, exposure triangle, manual controls and smartphone Pro mode.

UNIT II: CAMERA SYSTEMS AND COMPOSITION **6 HOURS**

Mirrorless and smartphone cameras, sensors, lenses, crop factor, computational photography, autofocus, metering and composition techniques.

UNIT III: LIGHTING AND CINEMATIC VIDEO **6 HOURS**

Natural and artificial lighting, golden hour, reflectors, cinematography basics, frame rates, stabilization and mobile videography.

UNIT IV: DIGITAL POST-PROCESSING **6 HOURS**

RAW workflow, white balance, tone curves, HSL, Lightroom, Snapseed, CapCut, file management and portfolio preparation.

UNIT V: UNDERSTANDING HISTOGRAM AND MASTERING LIGHT **6 HOURS**

Basics of histogram and its role in photography. Controlling exposure using light and histogram. Practical training in capturing clear and well-lit photographs.

TOTAL: 30 HOURS

Suggested AI Tools / Software Tools

AI Tools / Software Tools	Purpose
Snapseed	Mobile photo editing application
CapCut	Video editing software
Adobe Firefly	Creating images, text effects, design concepts

TEXT BOOKS:

1 Langford, M., Bilissi, E., & Allen, M. (2019). *Langford's basic photography: The guide for serious photographers* (10th ed.). Routledge.

REFERENCE BOOKS:

1 Hunter, F., Biver, S., & Fuqua, P. (2021). *Light: Science and magic: An introduction to photographic lighting* (6th ed.). Routledge.

2 Kelby, S. (2020). *The digital photography book, Part 2* (2nd ed.). Rocky Nook.

WEBSITES:

1 https://digital-photography-school.com/

2 https://alphauniverse.com/

CO, PO, PSO Mapping

CO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12	PO 13	PO 14	PO 15	PSO 1	PSO 2
CO1	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	2
CO2	1	-	2	-	2	-	-	-	-	-	-	-	-	-	-	3	3
CO3	1	-	2	-	2	-	-	-	-	2	-	-	-	-	-	3	3
CO4	1	-	-	-	-	-	-	-	-	3	-	-	-	-	-	3	3
CO5	1	-	-	-	-	-	-	-	-	-	-	-	-	-	3	3	2
Average	1.4	-	2	-	2	-	-	-	-	2.5	-	-	-	-	3	3.0	2.6

1 - Low, 2 - Medium, 3 - High, '-' - No Correlation

26VAC110 **Sustainable Production Techniques** **3H-2C**

Instruction Hours / Week: L: 1 T: - P: 2 **Marks:** Internal**: 100** External**: -** Total**: 100**

End Semester Exam: -

COURSE OBJECTIVES (CO):

- Introduce the concepts and principles of sustainable production and resource conservation.
- Develop practical skills in the preparation of eco-friendly products such as candles and soaps.
- Enable learners to design and produce value-added soap, candle and herbal hair oil with appropriate packaging and finishing
- Create awareness of sustainable entrepreneurship, product development, and marketing strategies.
- Encourage innovation and environmentally responsible practices for self-employment and small-scale enterprises.

COURSE OUTCOMES (COs):

Upon completion of this course, the student will be able to:

COs	Course Outcomes	Blooms Level
CO1	Understand the concepts of sustainability, circular economy, and sustainable production practices.	K2
CO2	Demonstrate the techniques involved in the preparation of eco-friendly candles and soaps.	K3
CO3	Demonstrate soap and candle-making techniques using appropriate materials and processes.	K3
CO4	Develop herbal hair oil with suitable finishing, packaging and quality standards.	K4
CO5	Develop basic entrepreneurial strategies including costing, branding, packaging, and marketing of sustainable products.	K4
K1 - Remember; **K2** - Understand; **K3** - Apply; **K4** - Analyze; **K5** - Evaluate; **K6** – Create		

UNIT I: INTRODUCTION TO SUSTAINABLE PRODUCTION **6 HOURS**

Concept of sustainability, Sustainable consumption and production, Eco-friendly materials and waste reduction, equipment and tools, workplace hygiene, safety practices, quality standards. Circular economy basics.

UNIT II: SOAP MAKING TECHNIQUES **6 HOURS**

History and importance of soap, types of soaps, properties of oils and additives, Cold process soap making, melt and pour soap making, selection of oils and butters, lye preparation and safety, natural colourants, fragrances and essential oils, herbal additives, moulding, curing, packaging and storage

UNIT III: CANDLE MAKING TECHNIQUES **6 HOURS**

History and importance of candle making, types of candles, raw materials, Types of wax (paraffin, soy, beeswax and gel wax), wick selection, wax melting and pouring techniques, fragrance and colour addition, moulded candles, container candles, decorative candles, troubleshooting common candle defects, packaging and storage.

UNIT IV: HERBAL HAIR OIL PREPARATION **6 HOURS**

Introduction to herbal hair oils, selection of carrier oils and traditional herbs, ingredient properties and benefits, oil infusion techniques, filtration methods, blending of herbal extracts and essential oils, quality evaluation, packaging, storage, and safe manufacturing practices through hands-on preparation of herbal hair oil.

UNIT V: ENTREPRENEURSHIP AND MARKETING **6 HOURS**

Cost estimation, pricing strategies, quality control, branding and packaging, digital marketing, social media promotion, customer handling, small-scale business setup, licensing and regulations, AI tools for product design and marketing, sustainable production practices.

TOTAL: 30 HOURS

Suggested AI Tools / Software Tools

AI Tools / Software Tools	**Purpose**
DALL·E	Product mockups, label concepts, and promotional images.
Looka AI	AI-powered logo and brand identity creation.

TEXT BOOKS:

1 Cable, K. (2017). *The natural soap making book for beginners* (1st ed.). Althea Press.

2 Martin, S. (2019). *Making handmade candles and soaps: A practical guide*. Creative Publishing International.

3 Hisrich, R. D., Peters, M. P., & Shepherd, D. A. (2020). *Entrepreneurship* (11th ed.). McGraw-Hill Education.

REFERENCE BOOKS:

1 Epstein, M. J., & Buhovac, A. R. (2014). *Making sustainability work: Best practices in managing and measuring corporate social, environmental and economic impacts* (2nd ed.). Berrett-Koehler Publishers.

2 McCartney, K. (2018). *The complete guide to natural soap making*. Storey Publishing.

3 Scarborough, N. M., & Cornwall, J. R. (2021). *Essentials of entrepreneurship and small business management* (9th ed.). Pearson Education.

4 Schaltegger, S., Hansen, E. G., & Lüdeke-Freund, F. (2016). *Business models for sustainability:*

Origins, present research, and future avenues. Springer.

WEBSITES:

1 https://www.soapmakingforum.com

2 https://www.soapqueen.com

3 https://www.brambleberry.com/

CO, PO, PSO Mapping

CO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12	PO 13	PO 14	PO 15	PSO 1	PSO 2
CO1	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	2
CO2	1	-	2	-	2	-	-	-	-	-	1	-	-	-	-	2	2
CO3	1	-	2	-	2	-	-	-	-	-	1	-	-	-	-	3	2
CO4	1	-	2	-	2	-	-	-	-	-	2	-	-	-	2	3	3
CO5	1	-	-	-	-	-	-	-	-	-	-	-	-	-	3	3	3
Average	1.5	-	2	-	2	-	-	-	-	-	1.3	-	-	-	2.5	3	2

1 - Low, 2 - Medium, 3 - High, '-' - No Correlation

26LTU201G **Language: Tamil – II இலக்கிய இன்பம்** **3H-3C**

Instruction Hours / Week: L:3 T: 0 P: 0 **Marks:** Internal**: 40** External**: 60** Total**: 100**

End Semester Exam:3 Hours

பாடத்திட்டப் பொதுநோக்கம் (CO):

- கற்றல் வழி சிந்தனைத் திறனையும், கருத்து வெளிப்பாட்டுத் திறனையும், மேம்படுத்துதல்.
- அரசுத் தேர்வுகளுக்கு மாணவர்களை ஆயத்தமாக்குதல்; திறனாய்வு நோக்கை மேம்படுத்துதல்.
- தமிழ் இலக்கிய வரலாற்றில் பக்தி இலக்கியங்களின் இடத்தை விளக்குதல்.
- இன்புறுத்தல் மற்றும் அறிவுறுத்தல் நிலைகளில் இலக்கியங்களின் பங்களிப்பை உணர்த்துதல்.
- இலக்கியங்களின் வழி மனித வாழ்வியல் நெறிகளை உணர்த்துதல்.

பாடத்திட்டப் பயன்விளைவு (COs):

பாடத்திட்டத்தின் விளைவாக மாணவர்கள் அடையும் பயன்கள்**:**

COs	Course Outcomes	Blooms Level
CO1	மாணவர்கள் போட்டித்தேர்வு நோக்கில் இலக்கிய அறிவுப் பெருக்கம்.	K2
CO2	பக்தி இலக்கிய விழுமியங்களை உணர்ந்திருத்தல்	K3
CO3	சுய சிந்தனையை வளர்ச்சியும் படைப்பாக்கத்திறன் மேம்பாடும்	K6
CO4	சமூக வாழ்வியல் மதிப்புகளைப் பேணுகின்ற குழு மனப்பான்மை வளர்ச்சி	K2
CO5	கருத்துப்பரிமாற்றத்தில் மொழியைப் பிழையின்றிப் பயன்படுத்தும் மொழித்திறன் மேம்பாடு	K2
K1- மீண்டும் நினைவு கூர்தல், **K2** – புரிந்துகொள்ளுதல் **K3** - உள்ளிடுதல் **K4** - பகுத்தாய்தல் **K5**- மதிப்பிடுதல், **K6**- படைப்பாக்கம்		
K1 - Remember; **K2** - Understand; **K3** - Apply; **K4** - Analyze; **K5** - Evaluate; **K6** – Create		

அலகு I: **9 மணிநேரம்**

தமிழ் இலக்கிய வரலாறு - தமிழிலக்கிய வரிசையில் திருமுறைகள், பன்னிரு திருமுறைகள் அறிமுகம், திருமுறை ஆசிரியர்களின் இலக்கியப் பங்களிப்பு.

பக்தி இலக்கியம் - சைவம் – பெரியபுராணம் - திருமூலநாயனார் புராணம் – (தேர்ந்தெடுக்கப்பட்ட 15 பாடல்கள்) - அந்தியிளம் பிறைக்கண்ணி (1) – மற்றவர்தாம் (2), காவிரிநீர் (9) – அந்நிலைமை (10), அந்தணர்தஞ் (11) – மற்றவன்றன் (12),இவன் உயிர் (13), பாய்த்தியபின் (14) – வெய்யசுடர் (16) – அங்கவளும்(18) – பித்துற்ற (20) – இந்தநிலை (22) – ஆவடுதண் (25) – ஊனுடம்பில் (26) – முன்னிய (27)

கவிதை - யோகசித்தி - மகாகவி பாரதியார்

கவிதை - பெண்களின் உரிமைகள்(பெண்மை) - கவிமணி
சிறுகதை - ஒருநாள் கழிந்தது – எழுத்தாளர் புதுமைப்பித்தன்
கட்டுரை - ஆளுமைத்திறன் அறிவோம் (தன்னம்பிக்கை மாத இதழ்)

திறன் மேம்பாட்டுப் பயிற்சி - கட்டுரைப் படைப்பாக்கத்திறன்

அலகு 2: **9 மணிநேரம்**

தமிழ் இலக்கிய வரலாறு - பன்னிரு ஆழ்வார்கள் வரலாறு
பக்தி இலக்கியம் - நாச்சியார் திருமொழி
(வாரணம் எனத் தொடங்கும் 11 பாடல்கள்) – ஆண்டாள்.
கவிதை - மலையாளக்காற்று - கவிஞர் சிற்பி பாலசுப்பிரமணியம்.
கவிதை - கம்ப்யூட்டர் கையில் நாம் - கவிஞர் ஈரோடு தமிழன்பன்
சிறுகதை - நந்தவனத்தில் ஒரு ஆண்டி- எழுத்தாளர் ஜெயகாந்தன்
கட்டுரை - அறிவியல் தமிழ் ஆக்கம் – இற்றை நிலை –
டாக்டர். வா.செ. குழந்தைசாமி

திறன் மேம்பாட்டுப் பயிற்சி - கவிதைப் படைப்பாக்கத்திறன்

அலகு 3: **9 மணிநேரம்**
தமிழ் இலக்கிய வரலாறு - தமிழ்ப் புதுக்கவிதையின் தோற்றமும் வளர்ச்சியும்
பக்தி இலக்கியம் - திருவருட்பா - பிள்ளைப்பெறு விண்ணப்பம்
இராமலிங்க அடிகளார். (5 பாடல்கள்)
கவிதை - கனவுகள் +கற்பனைகள் = காகிதங்கள் - கவிஞர் மீரா
கவிதை - மின்மினிகளால் ஒரு கடிதம் –
கவிஞர் அப்துல்ரகுமான்
கவிதை - ஓட்டடை- கவிஞர் தாமரை
சிறுகதை - நாற்காலி – எழுத்தாளர் கி. ராஜநாராயணன்
கட்டுரை - உயர்தனிச் செம்மொழி - முனைவர் இரா. குணசீலன்
மொழித்திறன் மேம்பாடு - அறிவியல் கலைச்சொற்கள்
திறன் மேம்பாட்டுப் பயிற்சி - சிறுகதைப் படைப்பாக்கத்திறன்

அலகு 4: **9 மணிநேரம்**

தமிழ் இலக்கிய வரலாறு - தமிழ்ச் சிறுகதையின் தோற்றமும் வளர்ச்சியும்.
கவிதை - நட்புக்காலம்- கவிஞர் அறிவுமதி.
கவிதை - ஏழை இங்கொருவருமில்லை –
கவிஞர் குலோத்துங்கன்.
சிறுகதை - சுயநலம்- கவிஞர் விந்தன்.
கட்டுரை - காளத்தி வேடனும் கங்கை வேடனும் -
சொல்லின் செல்வர் ரா.பி. சேதுப்பிள்ளை.
ஆளுமைத்திறன் மேம்பாடு - பேச்சுக்கலை

அலகு 5: **9 மணிநேரம்**
தமிழ் இலக்கிய வரலாறு - தமிழ் உரைநடையின் தோற்றமும் வளர்ச்சியும்
கவிதை - வித்தியாசமான தாலாட்டு - கவிஞர் வைரமுத்து
கவிதை - சுயம் - கவிஞர் சல்மா
சிறுகதை - மரத்துண்டு - அறிஞர் அண்ணா

கட்டுரை - வீரச்சுவை – நாவலர் ந.மு.வேங்கடசாமி நாட்டார்

மொழித்திறன் மேம்பாடு - பிழையின்றி எழுதுதல் பயிற்சி.
மரபுத்தமிழ் – திணைமரபு – உயர்திணை, அஃறிணை,

மொத்த மணிநேரம் – 45

SUPPORTING TOOLS - AI TOOLS / SOFTWARE TOOLS:

வரிசை எண்	செயற்கை நுண்ணறிவுக் கருவி	பயன்பாடு
1.	**Notebook LM**	முக்கியக் கருத்துகளை தனித்துவப்படுத்தவும், பெரிய பாடங்களைச் சுருக்க முறையில் விளக்கிக்கூறவும், பாடங்களை திருப்புதல் செய்யவும் உதவும் கருவி.
2.	**Tamil Chat GPT OCR**	தமிழ் தகவல் தேடுதளம்
3.	**Neechalkaran- Naavi**	தமிழ் வாக்கியப்பிழை திருத்துதல், சரிசெய்தல் கருவி

TEXT BOOK:

1. கற்பகச் சோலை – தமிழ்ப்பாட நூல், இலக்கிய இன்பம், தமிழ்த்துறை வெளியீடு, கற்பகம் உயர்கல்விக்கழகம், கோயம்புத்தூர் – 21, (ஜீன்-2026).

REFRENCE BOOKS:

1. தமிழ் இலக்கிய வரலாறு, முனைவர் கா.கோ. வேங்கடராமன், கலையக வெளியீடு, நாமக்கல் – (மார்ச்2025)
2. வகைமை நோக்கில் தமிழ் இலக்கிய வரலாறு, முனைவர் பாக்யமேரி, பூவேந்தன் பதிப்பகம், சீனிவாசா சாலை, மயிலாப்பூர், சென்னை – (ஆறாம் பதிப்பு 2022)

WEBSITES:

1. W1-www.tvu.org.in
2. W2- www.maduraitamilproject.com

JOURNALS:

1. International Research Journal of Indian Literature, irjil.in
2. International Tamil Research Journal, iorpress.in

CO-PO Articulation Mapping

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PO13	PO14	PO15	PSO1	PSO2	PSO3
CO1	-	-	-	-	-	-	-	-	1	2	1	-	-	2	2	-	-	-
CO2	-	-	-	-	-	-	-	-	-	-	-	-	3	-	2	-	-	-
CO3	-	-	2	-	-	-	-	-	-	-	3	2	-	3	1	-	-	-
CO4	-	-	2	-	-	-	-	-	-	-	3	2	-	3	1	-	-	-
CO5	-	-	3	-	-	-	-	-	-	1	1	-	-	2	1	-	-	-
Average			**2.3**	**-**	**-**	**-**	**-**	**-**	**1**	**1.5**	**2**	**2**	**3**	**2.5**	**1.4**	**-**	**-**	**-**

1 - Low, 2 - Medium, 3 - High, '-' - No Correlation

B.Com. (Information Technology) **2026-2027**

Category: MDC **SEMESTER II**

26LHU201G **Language: Hindi - II** **3H-3C**

Instruction Hours / Week: L:3 T: 0 P: 0 **Marks:** Internal**: 40** External**: 60** Total**: 100**

End Semester Exam:3 Hours

COURSE OBJECTIVES(CO):

- Understand the text styles and grammatical elements
- Discuss the content of a reading passage
- Develop an interest in the appreciation of short stories

COURSE OUTCOMES(COs) :

Upon the completion of the course, the students will be able to:

COs	Course Outcomes	Blooms Level
CO1	Basic knowledge of Hindi language will be improved.	K1
CO2	Knowledge of glossaries will increase.	K2
CO3	Hindi language expression will rise.	K3
CO4	Learners will enrich their grammar in Hindi.	K3
CO5	The desire to read literature, such as the essay on a poem, develops.	K5
K1 - Remember; **K2** - Understand; **K3** - Apply; **K4** - Analyze; **K5** - Evaluate; **K6** – Create		

UNIT I : **9 HOURS**

Poetry – Nagarjun - Drama -Dhruva Swamini - Novel - Nirmala , Thotharam - Grammar – Kaal , Theen Prakar.

UNIT II: **9 HOURS**

Poetry – Sita , Ram - Drama – Mandhakini , Koma - Novel – Mansaram , Jiyaram - Grammar – Upsarg, Prathyay.

UNIT III: **9 HOURS**

Poetry – Lakshman, Valmiki- Drama – Ramaguptha , Chandhraguptha - Novel – Sudha, Bhuvan Mohan Singh - Grammar – Sabda Vyutpathi.

UNIT IV: **9 HOURS**

Poetry -Vishvaamithra, Thrijada - Drama –Sikhar Swami,Shakraj - Novel – Udhaybanulaal, Siyaram Grammar – Sambandh Chochak **.**

UNITV: **9 HOURS**

Poetry – Bhagirath , Sagar - Drama – Khingal , Mihirdev , Prohith - Novel – bhalchandra Sinha,Kalyani, Rangili Bai - Samuchchaybodhak, Vishmayathibodhak.

Total: 45 Hours

TEXT BOOK

1. Nagarjun, (2018). Bhoomija , Radha Krishna Publication, New Delhi - 110051.
2. Jaysankar Prasad, (1933). Dhruva Swamini, Sakshi Publication, S 16, Naveen Shahdhara, Delhi - 110032.

REFERENC BOOKS:

1. Premchandh, (2020). Nirmala, Prabhath Prakashan, 4/19 Asaf Ali Road, New Delhi - 110002.
2. V.shidhar Pro. & Dharmapal, (2005). Sugam Hindi Vyakaran, Shiksha Bharathi, Madharsa Road, Delhi - 110006.

WEBSITES:

1. https://www.hindi.ui.org
2. https://www.ikouniv.ac.in

JOURNALS:

1. International Journal of hindi research
2. National Journal of hindi & sanskrit research

CO,PO,PSO Mapping

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PO13	PO14	PO15	PSO1	PSO2	PSO3
CO1	-	-	-	-	-	-	-	-	1	2	1	-	-	2	2	-	-	-
CO2	-	-	-	-	-	-	-	-	-	-	-	-	3	-	2	-	-	-
CO3	-	-	2	-	-	-	-	-	-	-	3	2	-	3	1	-	-	-
CO4	-	-	2	-	-	-	-	-	-	-	3	2	-	3	1	-	-	-
CO5	-	-	3	-	-	-	-	-	-	1	1	-	-	2	1	-	-	-
AVG			**2.3**	-	-	-	-	-	**1**	**1.5**	**2**	**2**	**3**	**2.5**	**1.4**	-	-	-

1 - Low, 2 - Medium, 3 - High, '-' - No Correlation

B.Com. (Information Technology) **2026-2027**

Category: MDC **SEMESTER II**

26LMU201G **Language: Malayalam - II** **3H-3C**

Instruction Hours / Week: L:3 T: 0 P: 0 **Marks:** Internal**: 40** External**: 60** Total**: 100**

End Semester Exam:3 Hours

COURSE OBJECTIVE:(CO)

- A basic understanding of contemporary poetry can be gained and the nature of modern poetry can be realized.
- Realizing the nature of drama and its nature and improving the knowledge of reading and understanding the nature of contemporary plays.
- Understands the benefits of correspondence and can enhance the correspondence you need.

COURSE OUTCOME: (COs)

COs	Course Outcomes	Blooms Level
CO1	Get a basic understanding of Memories	K2
CO2	It will create basic knowledge about Environmental Psychology.	K3
CO3	It will create awareness about our environment.	K6
CO4	Knowledge is gain about our country, culture etc.	K2
CO5	It will be an eye opener to the students towards our Mother Earth.	K2
K1 - Remember; **K2** - Understand; **K3** - Apply; **K4** - Analyze; **K5** - Evaluate; **K6** – Create		

	LANGUAGE: MALAYALAM - II	
Unit No.		**Hours**
I	**Novel –Enmakaje** **I – I The Reality of Endozoan**: Study the historical context of the aerial spraying of Endozoan on cashew plantations and how the novel acts as a fictionalized document of a real-world genocide. **I – II The Living Martyrs**: Analyze the graphic portrayal of human suffering, including the physical deformities, neurological disorders, and genetic mutations affecting the children of the village. **I – III Devayani and Neelakanthan**: Examine the journey of the central characters who move from a self-imposed isolation in nature to becoming witnesses to a community's slow death. **I – IV The Silent Springs of Kasargod**: Deconstruct the environmental destruction of the local ecosystem, focusing on the absence of birds, bees, and fish, and the contamination of the water table.	**9**
II	**Novel – Enmakaje** **II – I Mythological Subtext**: Analyze the use of the *Theyyam* ritual, local folklore, and the myth of *Jadadhari* (the guardian deity of the forest) to represent nature's wrath and spiritual resistance. **II – II Indigenous vs. Modern Medicine**: Critique the conflict between corporate-driven scientific arrogance (pesticides) and traditional, sustainable ways of living with nature. **II – III The Dawn of Activism**: Trace the transformation of the villagers from	**9**

	passive victims to active protestors, highlighting the role of collective human agency and social movements. **II – IV Eco-Aesthetic and Style**: Evaluate Ambikasuthan Mangad's narrative style, which blends stark investigative journalism with eco-critical magical realism.	
III	**Memories – Neermaathalam Pootthakaalam** **III -I The Nalukettu and the Neermathalam**: Analyze the ancestral house (*Nalukettu*) and the Neermathalam tree as living characters that symbolize safety, roots, and pure childhood joy **III** – II **Matrilineal Bonds and Grandparents**: Study the towering presence of her grandmother (*Ammamma*), the matriarchal culture of the Nair household, and the unconditional love that shaped the author's early life.	**9**
IV	Memories – Neermaathalam Pootthakaalam **IV – I Awakening of the Female Consciousness**: Trace how the text captures a young girl's realization of gender roles, societal expectations, and her early poetic sensibilities. **IV – II The Confessional Memoir Style**: Evaluate Kamala Das's unique narrative voice—her radical honesty, emotional vulnerability, and lyrical prose that revolutionized Malayalam autobiographical writing.	**9**
V	Translation (English to Malayalam)	**9**
	TOTAL HOURS	**45**

Suggested AI Tools / Software Tools

S.No.	AI Tools / Software Tools	Purpose
1	Grammarly	To improve written communication by offering grammar, tone, and style suggestions
2	Quill Bot	To improve Students' writing by paraphrasing, summarizing, and refining text for better clarity and tone.

TEXT BOOKS:

1. Ambikasuthan, (2024), Emakaje –DC Books Kottayam,Kerala
2. Madhavikutty (2021), Neermaathalam Pootthakaalam , DC Books Kottayam, Kerala

REFERENCE BOOKS:

1. Vijayalam Jayakumar (1998), Athmakathasahithyam Malayalathil,N.B.S.Kottayam,Kerala
2. Tharakan K.M (2023), Malayala Novel Sahithya Charitram, Kerala Sast Rasahitya,Kerala
3. George K.M (2013) SahithyaCharitram Prasthanangalilude, D.C.Books, Kottayam, Kerala
4. Sukumar Azheekode,(2018, MalayalaSahithyavimarsam, D.C.Books, Kottayam,Kerala

WEBSITE:

1. **http://malayalamuniversity.edu.in/en/publication/Journals**
2. **https://iucml.keralauniversity.ac.in/**

JOURNALS

1. https://benjaminbaileyfoundation.org/Information_on_journal.html
2. Indian Journal of Malayalam Language Research Studies

CO,PO,PSO Mapping

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PO13	PO14	PO15	PSO1	PSO2	PSO3
CO1	-	-	-	-	-	-	-	-	1	2	1	-	-	2	2	-	-	-
CO2	-	-	-	-	-	-	-	-	-	-	-	-	3	-	2	-	-	-
CO3	-	-	2	-	-	-	-	-	-	-	3	2	-	3	1	-	-	-
CO4	-	-	2	-	-	-	-	-	-	-	3	2	-	3	1	-	-	-
CO5	-	-	3	-	-	-	-	-	-	1	1	-	-	2	1	-	-	-
AVG			**2.3**	**-**	**-**	**-**	**-**	**-**	**1**	**1.5**	**2**	**2**	**3**	**2.5**	**1.4**	**-**	**-**	**-**

1 - Low, 2 - Medium, 3 - High, '-' - No Correlation

COURSE OBJECTIVES (CO):

The objectives of this course are:

- To make the students to speak and write errors free French.
- To help the students develop their listening, speaking, reading and writing skills.
- Introducing literary works to the students to enhance their analytical and aesthetic skills**.**

COURSE OUTCOMES (COs):

At the end of this course, students will be able to

COs	Course Outcomes	Blooms Level
CO1	strengthen the foundation of the language.	K1
CO2	standardize and demonstrate understanding of LSRW skills.	K2
CO3	utilize fundamentals of language for reading, writing and effective communication.	K3
CO4	enhancing the reading skill to build the leadership quality.	K3
CO5	Develop the moral and aesthetic values.	K5
K1 - Remember; **K2** - Understand; **K3** - Apply; **K4** - Analyze; **K5** - Evaluate; **K6** – Create		

UNITÉ I: **9 HOURS**

Leçon - Les loisirs – Communication - Parler de ses goûts et de ses préférences – Grammaire - Les adjectifs interrogatifs , Les nombres ordinaux - L'heure, Les pronoms personnels COD – Verbes - savoir et connaitre - Lexique - Les loisirs, Les activités quotidiennes , Les matières – Culture - les grands fleuves de france.

UNITÉ II: **9 HOURS**

Leçon - La routine – Communication - Décrire sa journée - Grammaire - Les verbes pronominaux, Les verbes du premier - groupe en -e_er, -é_er, -eler, -eter, Le verbe prendre – Verbes - manger, boire Lexique- Le temps et l'heure ,La fréquence Culture - les bandes dessinees.

UNITÉ III: **9 HOURS**

Leçon - Où faire ses course - Communication - Au restaurant : commander et commenter - Grammaire - Les articles partitifs, Le pronom en (la quantité) très ou beaucoup ? La phrase negative - Verbes - les verbs irregulliers – Lexique - Les aliments, Les quantités, Les commerces et les commerçants - Culture - Les plats francais

UNITÉ IV: **9 HOURS**

Leçon - Decourvez et dégustez -Communication - Inviter et répondre ,à une invitation - Grammaire -

L'impératif ,Il faut, c'est/ il est,future proche -Verbes - Les verbes devoir, pouvoir, savoir, vouloir -Lexique- Demander et dire le prix, Les services, Les moyens de – paiement – Culture - Le festival du mot.

UNITÉ V: **9 HOURS**

Leçon - Tout le monde s'amuse, Les ados au quotidien - Communication - Décrire une tenue , Écrire un message amical -Grammaire - Les adjectifs demonstratives, La formation du- féminin Le pronom indéfini on, passé compose' - Verbes - Les verbes du premier groupe en –yer, - Les verbes voir et sortir - Lexique- Les sorties Situer dans le temps, La famille ,(2) Les - vêtements et les accessoires – Culture - Le pays des gourmands.

TOTAL: 45 HOURS

Suggested AI Tools / Software Tools

S. No.	AI Tools / Software Tools	Purpose
1	Speak AI	Focused on speaking fluency with AI conversations and pronunciation feedback. Frequently recommended for realistic speaking practice.
2	Duolingo Max	Good for beginners and daily practice habits. AI roleplay and explanations help with French basics.

TEXT BOOK

1. Marie-Noëlle Cocton, December 2015, ***Saison 1: méthode de français,*** Volume 89, Number 2, Johns Hopkins University Press, Difier Paris
2. Marion Alcaraz, Dorothée Escoufier, Camille Gomy, Mathilde Landier, Francine Quéméner, Delphine Ripaud, 2014, ***Saison 1- Cahier d'activites,*** Dider, Paris.

REFERENCE BOOKS:

1. Anne Akvüz, Bernadette Bazelle-Shahmaei, Joëlle Bonenfant, Marie-Françoise Gliemann, 24 Aug. 2005, *LES 500 EXERCICES DE GRAMMAIRE AVEC CORRIGÉS*, Hachette Francais Langue Etrangere, Paris.
2. Christian Beaulieu, 2011, *Je Pratique Exercice De Grammaire A1*, French, Goyal Publishers, Paris.
3. Nathalie Bié, Philippe Santinan, April 2014, *Grammaire pour adolescents 250 exercices,* French, CLE International, Paris

WEBSITES :

1. http:// enseigner.tv5 monde.com/
2. bonjourdumonde.com /exercises/contenu/le – francais-du- tourisme.html
3. http://www.bonjurdefrance.com/
4. https://www.lepointdufle.net/

JOURNALS:

1. French cultural studies
2. Australian journal of French studies

CO, PO, PSO Mapping

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PO13	PO14	PO15	PSO1	PSO2	PSO3
CO1	–	3	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	-
CO2	–	–	–	3	–	–	–	–	2	–	–	2	–	–	–	–	–	-
CO3	–	3	–	–	–	–	–	–	–	–	–	3	–	–	–	–	–	-
CO4	–	–	–	2	–	–	–	–	2	–	–	1	–	–	–	–	–	-
CO5	3	3	–	1	–	–	–	–	–	–	–	–	–	–	3	–	–	-
AVG	**3**	**3**	**–**	**2**	**–**	**–**	**–**	**–**	**2**	**–**	**–**	**2**	**–**	**–**	**3**	–	–	-

1 - Low, 2 - Medium, 3 - High, '-' - No Correlation

B.Com. (Information Technology) **2026-2027**

Category: MDC **SEMESTER II**

26LGU201G **Language: German – II** **3H-3C**

Instruction Hours / Week: L:3 T: 0 P: 0 **Marks:** Internal**: 40** External**: 60** Total**: 100**

End Semester Exam:3 Hours

COURSE OBJECTIVES(CO):

1. Improve the communication skills in German Language
2. Improve the Listening and Understanding capability of German FM Radio, and TV Programs, Films
3. Build the confidence of the usage of German Language and better understanding of the culture

COURSE OUTCOMES (COs):

At the end of this course, students will be able to

Cos	Course Outcomes	Blooms Level
CO1	Create proficiency in advanced grammar and rules	K2
CO2	Understand the texts including scientific subjects.	K2
CO3	Create the ability of listening and speaking in real time situations	K3
CO4	Create the vocabulary in different context-based situations.	K4
CO5	Create written communication in profession life, like replaying or sending E-mails and letters in a company.	K3
K1 - Remember; **K2** - Understand; **K3** - Apply; **K4** - Analyze; **K5** - Evaluate; **K6** – Create		

UNIT I: **9 HOURS**

Grammatik : Tempus – Perfekt, Präteritum, Plusquamperfekt, Futur-I, Futur-II, Wiederholung der Grundstufen grammatik. Grammatik : Passiv, Personalpronomen (Nominativ, Akkusativ, Dativ)

Lernziel: Sätze schreiben in verschiedenen Zeiten. Passiv, Formen der Personalpronomen.

UNIT II: **9 HOURS**

Adjektivdeklination, Nebensätze, Präpositionen mit Akkusativ und Dativ, Infinitivsätze. Übersetzung: Technische Terminologie, wissenschaftliche, Literarische Texte aus dem Deutschen ins Englische umgekehrt.

Lernziel: Verbindung zwischen Adjektiv und Nomen, Übung von Grammatik und Wortschatz.

UNIT III: **9 HOURS**

Hörverstandnis durch Audioubung: Familie, Leben in Deutschland, Am Bahnhof,

Video : Politik, Historie, Tagesablauf in einer anderen Stadt.

Lernziel: Ubung der Sprache.

UNIT IV: **9 HOURS**

Horverstandnis durch Audioübung : Über berühmte Persönlichkeiten, Feste in Deutschland,

Video: Wetter, An der Universitat, ein Zimmer buchen, Studentenleben, Städte und Landeskunde

Lernziel: Horverstandnis, landeskunde.

UNIT V: **9 HOURS**

Horverstandnis durch Audioubung: FM Radio aus Deutschland

Videos: Fernseher aus Deutschland, Invited Talk: Contemporary

Lernziel: LSRW Fahigkeiten.

TOTAL: 45 HOURS

Suggested AI Tools / Software Tools

S.No.	AI Tools / Software Tools	Purpose
3	Grammarly	To improve written communication by offering grammar, tone, and style suggestions
4	Quillbot	To improve Students' writing by paraphrasing, summarizing, and refining text for better clarity and tone.

TEXT BOOK(S)

1. Text Book: 1. TangramAktuell II, Rosa Maria Dallapizza, Beate Bluggel, Max Hueber Verlag, Munchen:2010

REFERENCE BOOKS:

1. ThemenAktuell, Heijo Bock, Mueller Jutta, MaxHueber Verla, Muenchen :2010.
2. Deutsch Sprachlehre fuer Auslander, Schulz Griesbach, Max Hueber Verlag, Muenchen:2012
3. Lagune, Deutsch als Fremdsprache, Jutta Muller, Storz Thomas, Hueber Verlag, Ismaning:2013
4. Studio d A 1, Hermann Funk, Christina Kuhn, Max HuerberVerlag, Munchen: 2011

WEB SITES:

1. WWW.goethe.de
2. Wirtschaftsdeutsh.de
3. Hueber.de
4. Klett-sprachen.de
5. www.deutschtraning.org

JOURNALS

1. **https://guides.library.upenn.edu/germanic/journals**
2. **https://guides.library.harvard.edu/**

CO, PO, PSO Mapping

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PO13	PO14	PO15	PSO1	PSO2
CO1	–	3	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
CO2	–	–	–	3	–	–	–	–	2	–	–	2	–	–	–	–	–
CO3	–	3	–	–	–	–	–	–	–	–	–	3	–	–	–	–	–
CO4	–	–	–	2	–	–	–	–	2	–	–	1	–	–	–	–	–
CO5	3	3	–	1	–	–	–	–	–	–	–	–	–	–	3	–	–
AVG	**3**	**3**	**–**	**2**	**–**	**–**	**–**	**–**	**2**	**–**	**–**	**2**	**–**	**–**	**3**	–	–

1 - Low, 2 - Medium, 3 - High, '-' - No Correlation

Category: MDC **Language: Japanese – II** **SEMESTER II**

26LJU201G **3H-3C**

Instruction Hours / Week: L:3 T: 0 P: 0 **Marks:** Internal**: 40** External**: 60** Total**: 100**

End Semester Exam:3 Hours

COURSE OBJECTIVES(CO):

1. Improve the communication skills in Japanese Language
2. Improve the Listening and Understanding capability of Japanese FM Radio, and TV Programs, Films
3. Build the confidence of the usage of Japanese Language and better understanding of the culture.

Course Outcomes (COs):

At the end of this course, students will be able to

Cos	Course Outcomes	Blooms Level
CO1	Create proficiency in advanced grammar and rules	K2
CO2	Understand the texts including scientific subjects.	K2
CO3	Create the ability of listening and speaking in real time situations	K3
CO4	Create the vocabulary in different context-based situations.	K4
CO5	Create written communication in profession life, like replaying or sending E-mails and letters in a company.	K3
K1 - Remember; **K2** - Understand; **K3** - Apply; **K4** - Analyze; **K5** - Evaluate; **K6** – Create		

UNIT I: GRAMMAR **9 HOURS**

Basic sentence pattern, i.e. - This is….. This is not…. - Interrogative sentences – Demonstratives - Noun modifier - Use of ..'s - Verb Conjugation (Present, Future & Past forms of verbs - Express timing - Inviting someone to some place - Use of particle in Japanese sentences.

UNIT II: VOCABULARY **9 HOURS**

Pronouns, Profession, Institutions - Name of the Country - Name of objects used in everyday life - Indicate place/location, Time, Dates - Transportation, - How to say day, week and month, Family Relations.

UNIT III: LISTENING AND CONVERSATION: **9 HOURS**

Basic Greetings - Self-Introduction - Offering gift to neighbor, friends - Asking about some particular place - Asking timing -Asking cost/fare - Inviting someone to join some party - Inviting someone in home.

UNIT IV: ALPHABET/SCRIPTS **9 HOURS**

HIRAGANA & KATAKANA (Basic Phonetic Scripts)

UNIT V: CULTURE, ETIQUETTE AND MANNERS **9 HOURS**

Greetings, Exchange of Name Cards, Manga, Anime

TOTAL: 45 HOURS

TEXT BOOK:

1. Takuji Kobayashi "MINNA NO NIHONGO –Japanese for Everyone", 2nd Edition GOYAL Publishers & distributors Pvt.Ltd, New Delhi, 2017.

REFERENCE BOOKS:

1. Genki-I (An Integrated Course in Elementary Japanese), Japan Times, Tokyo (PDF is also available online)
2. Nyumon Nihongo- ALC Press, U.K.
3. Marugoto-AI, Japan Foundation, New Delhi.
4. Nihongo Soomatome N5, ASK Publishing, Tokyo (PDF is available online)

WEB SITES:

1. https://www.tofugu.com/japanese-learning-resources-database/
2. https://jll.pitt.edu/ojs/JLL

JOURNALS

1. https://www.jstor.org/journal/japalanglite
2. The Journal of Japanese-Language Literature Studies

CO, PO, PSO Mapping

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PO13	PO14	PO15	PSO1	PSO2
CO1	–	3	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
CO2	–	–	–	3	–	–	–	–	2	–	–	2	–	–	–	–	–
CO3	–	3	–	–	–	–	–	–	–	–	–	3	–	–	–	–	–
CO4	–	–	–	2	–	–	–	–	2	–	–	1	–	–	–	–	–
CO5	3	3	–	1	–	–	–	–	–	–	–	–	–	–	3	–	–
AVG	**3**	**3**	**–**	**2**	**–**	**–**	**–**	**–**	**2**	**–**	**–**	**2**	**–**	**–**	**3**	–	–

1 - Low, 2 - Medium, 3 - High, '-' - No Correlation

B.Com. (Information Technology) **2026-2027**

Category: AEC **SEMESTER II**

26ENU201G **English II - Professional English** **3H-3C**

Instruction Hours / Week: L:3 T: 0 P: 0 **Marks:** Internal**: 40** External**: 60** Total**: 100**

End Semester Exam:3 Hours

COURSE OBJECTIVES (CO):

- To develop formal and functional writing abilities.
- To improve comprehension of diverse texts and audio content.
- To build confidence in spoken and written expression.

COURSE OUTCOMES (COs):

Upon completion of this course, the student will be able to:

Cos	Course Outcomes	Blooms Level
CO1	Recall grammar rules and basic language forms.	K1
CO2	Understand listening, reading, and writing techniques.	K2
CO3	Use English in descriptions, requests, and formal writing.	K3
CO4	Analyze speeches, biographies, and audio content.	K3
CO5	Create drafts, blogs, scripts, and travelogues with accuracy.	K5
K1 - Remember; **K2** - Understand; **K3** - Apply; **K4** - Analyze; **K5** - Evaluate; **K6** – Create		

UNIT - I **9 HOURS**

Listening to stories - Making request - Reading articles & Magazines - Draft writing - Subject, Predicate & Phrases and Clauses

UNIT - II **9 HOURS**

Listening to Radio Programmes (BBC English) - Describing- Holidays, festivals and special events -Reading Biographies - Writing MOU, Agenda and Minutes - Concord, Modal Auxiliary, Question Tag.

UNIT - III **9 HOURS**

Listening to travelogues - Describing Information Communication Tools - Reading Scripts and dialogues Travelogue Writing – Punctuations.

UNIT - IV **9 HOURS**

Listening to famous speeches - Talking about Great Personality (Historians, Scientists, Philosophers & Entrepreneurs) - Speed reading techniques - Creative writing, Script writing - Subject, Verb, Agreement.

UNIT - V **9 HOURS**

Listening to Podcast - Describing, Expressing, Analyzing, Persuading - Reading instruction, notices and circulars - Blog Writing and Poster Making - Direct and Indirect speech.

TOTAL: 45 HOURS

Suggested AI Tools / Software Tools

AI Tools / Software Tools	Purpose
Grammarly Business	To ensure all team communication follows a consistent brand voice, tone, and professional style guide.
TED-Ed	To provide curated educational videos paired with interactive listening quizzes and follow-up activities.
BBC Learning English - Podcast	To improve student's English skills through topical, real-life conversation and expert linguistic insights.
ElevenLabs	To generate exceptionally realistic audio from text with diverse global accents, ideal for practicing specific dialect recognition

REFERENCE BOOKS:

1. Mohan, K., & Banerji, M. (2010). Communication skills in English (2nd ed.). Macmillan Education.
2. Mohan, K., & Banerji, M. (2010). Developing communication skills (2nd ed.). Macmillan Education.
3. Murphy, R. (2015). Essential grammar in use: A self-study reference and practice book for elementary learners of English (4th ed.). Cambridge University Press.
4. Oshima, A., & Hogue, A. (2014). Writing academic English (5th ed.). Pearson Education.
5. Wren, P. C., & Martin, H. (2016). High school English grammar and composition (N. D. V. Prasada Rao, Rev.). S. Chand Publishing.

WEB SITES:

1. https://learnenglish.britishcouncil.org
2. https://www.bbc.co.uk/learningenglish
3. https://www.ted.com/talks
4. https://owl.purdue.edu
5. https://www.grammarly.com/blog

CO, PO, PSO Mapping

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PO13	PO14	PO15	PSO1	PSO2
CO1	–	2	–	–	–	–	–	–	–	1	–	–	–	–	1	2	2
CO2	–	3	–	–	–	–	–	–	–	2	–	–	–	–	2	3	3
CO3	–	3	–	–	–	–	2	–	–	–	–	1	–	2	–	3	3
CO4	–	3	–	–	–	–	–	–	–	2	–	2	3	–	2	3	3
CO5	–	3	–	–	–	–	–	–	–	–	–	–	–	2	–	2	2
AVG		2.8	–	–	–	–	2	–	–	1.667	–	1.5	3	2	1.667	2.6	2.6

1 - Low, 2 - Medium, 3 - High, '-' - No Correlation

26CMU201G **Higher Financial Accounting** **4H-4C**

Instruction Hours / Week: L:3 T: 1 P: 0 **Marks:** Internal**: 40** External**: 60** Total**: 100**

End Semester Exam:3 Hours

COURSE OBJECTIVES(CO):

- To enable students to understand the fundamentals of partnership accounting and accounting treatment relating to admission, retirement, and death of partners.
- To familiarize students with the accounting procedures for dissolution and insolvency of partnership firms.
- To provide knowledge on accounting treatment of joint venture transactions.

COURSE OUTCOMES(COs):

Upon completion of this course, the student will be able to:

COs	Course Outcomes	Blooms Level
CO1	Explain the fundamentals of partnership accounting and admission of a partner.	K2
CO2	Apply accounting procedures relating to retirement and death of partners.	K3
CO3	Analyze dissolution procedures and insolvency of partners.	K4
CO4	Examine piecemeal distribution and insolvency of all partners.	K4
CO5	Prepare accounts relating to joint venture transactions.	K3

UNIT – I ADMISSION OF A PARTNER **12 HOURS**

Partnership – Meaning – Features – Types of Partnership – Admission of a Partner – Valuation of Goodwill – Treatment of Goodwill – Revaluation of Assets and Liabilities – Calculation of New Ratio and Sacrificing Ratio – Capital Adjustments.

UNIT – II RETIREMENT AND DEATH OF A PARTNER **12 HOURS**

Retirement of a Partner – Gaining Ratio – Revaluation of Assets and Liabilities – Treatment of Goodwill – Treatment of Undistributed Profits and Losses – Settlement of Amount due to Retiring Partner – Death of a Partner – Calculation of Amount due to Deceased Partner – Calculation of Deceased Partner's Share of Profit based on Time and Turnover.

UNIT – III DISSOLUTION AND INSOLVENCY OF A PARTNER **12 HOURS**

Dissolution of Firm – Modes of Dissolution – Settlement of Accounts – Insolvency of a Partner – Garner Vs Murray Rule – Insolvency of Two Partners.

UNIT – IV INSOLVENCY OF ALL PARTNERS AND PIECEMEAL DISTRIBUTION **12 HOURS**

Insolvency of all Partners – Deficiency Accounts – Piecemeal Distribution of Cash – Proportionate Capital Method.

UNIT – V JOINT VENTURE ACCOUNTS **12 HOURS**

Joint Venture – Meaning – Features – Difference between Joint Venture and Partnership – Methods of Recording Joint Venture Transactions – Accounting for Joint Venture.

Note: Distribution of Marks – 20% Theory and 80% Problems

TOTAL: 60 HOURS

AI Tools / Software Tools	Purpose
ChatGPT	To explain partnership accounting concepts, solve numerical problems, and provide step-by-step solutions.
Microsoft Copilot	To assist in preparing accounting statements, performing financial calculations, and analyzing partnership accounts using Excel.
Google Gemini	To simplify complex accounting concepts, generate worked examples, and support self-learning.
TallyPrime	To understand computerized accounting processes and record partnership accounting transactions in a practical environment.
Microsoft Excel (AI Features)	To prepare goodwill valuation, capital accounts, revaluation accounts, piecemeal distribution schedules, and other accounting calculations.

TEXT BOOK:

1. T.S. Reddy & A. Murthy – Financial Accounting – Margham Publications – Revised Edition, 2025.
2. R.L. Gupta & M. Radhaswamy – Advanced Accountancy, Volume I – Sultan Chand & Sons – 2025 Edition.
3. S.P. Jain & K.L. Narang – Advanced Accountancy – Kalyani Publishers – Revised Edition, 2024.
4. Shukla & Grewal – Advanced Accounts – S. Chand Publishing – Revised Edition, 2024.

REFERENCE BOOKS:

1. M.C. Shukla, T.S. Grewal & S.C. Gupta – Advanced Accounts – S. Chand Publishing – Revised Edition, 2024.
2. R.K. Sharma & Shashi K. Gupta – Advanced Accounting – Kalyani Publishers – Latest Edition, 2024.
3. S.N. Maheshwari & S.K. Maheshwari – Advanced Accountancy – Vikas Publishing House – Revised Edition, 2024.
4. Arulanandam & Raman – Advanced Accountancy – Himalaya Publishing House – Revised Edition, 2024.

WEBSITE:

1. https://www.icai.org/post/sm-foundation-p1-may2026

CO, PO, PSO Mapping

Cos	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PO13	PO14	PO15	PSO1	PSO2
CO1	3	1	3	3	2	-	-	-	-	1	-	-	-	-	-	3	2
CO2	3	1	2	3	3	-	-	-	-	1	-	-	-	-	-	3	3
CO3	3	1	3	3	3	1	-	1	-	1	-	-	-	-	-	3	3
CO4	3	1	3	3	3	1	-	2	-	1	-	-	1	-	-	3	3
CO5	2	1	2	3	2	-	1	-	-	1	-	1	-	-	-	3	2
AVG	**3**	**1**	**3**	**3**	**3**	**1**	**1**	**2**	**-**	**1**	**-**	**1**	**1**	**-**	**-**	**3**	**3**

1 - Low, 2 - Medium, 3 - High, '-; - No Correlation

26CIU201 **Micro Economics** **4H-4C**

Instruction Hours / Week: L:4 T: 0 P: 0 **Marks:** Internal**: 40** External**: 60** Total**: 100**

End Semester Exam:3 Hours

COURSE OBJECTIVES (CO):

- To understand the fundamental concepts and principles of microeconomics, including demand, supply, and consumer behaviour.
- To analyze production, cost, and pricing decisions under different market structures.
- To develop the ability to evaluate factor pricing and income distribution using economic theories.

COURSE OUTCOMES (CO's):

Upon completion of this course, the student will be able to

COs	Course outcomes	Blooms
CO1	Explain the fundamental concepts of microeconomics, including demand, supply, market equilibrium, and elasticity.	K2
CO2	Apply consumer behaviour theories to analyze consumer equilibrium using indifference curve analysis and related concepts.	K3
CO3	Analyze production functions, cost concepts, and firm equilibrium under short-run and long-run conditions.	K4
CO4	Analyze price and output determination under different market structures and compare their economic implications.	K4
CO5	Apply microeconomic principles to analyze real-world economic problems related to pricing, production, and resource allocation.	K3
K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 – Create		

UNIT I: Introduction to Demand and Supply 12 Hours

Introduction to Microeconomics – Demand and Supply – Determinants of Demand – Movement along the Demand Curve and Shift in the Demand Curve – Determinants of Supply – Movement along the Supply Curve and Shift in the Supply Curve – Market Equilibrium and Price Determination – Elasticity of Demand and Supply – Applications of Demand and Supply.

UNIT II: Consumer Theory 12 Hours

Ordinal Utility Theory – Indifference Curve Approach – Consumer Preferences – Indifference Curves and their Properties – Budget Line – Consumer Equilibrium – Income Effect – Substitution Effect – Price Consumption Curve – Derivation of the Demand Curve – Criticisms of the Law of Demand.

UNIT – III: Production and Cost 12 Hours

Production Function – Firm as an Agent of Production – Concepts of Production Function – Law of Variable Proportions – Isoquants – Returns to Scale – Economies and Diseconomies of Scale – Cost Concepts – Short-run and Long-run Costs – Profit Maximization and Cost Minimization – Firm Equilibrium – Technological Change – Very Long-run Analysis.

UNIT – IV: Market Structure **12 Hours**

Perfect Competition – Features and Assumptions – Short-run and Long-run Equilibrium of the Firm – Monopoly – Short-run and Long-run Equilibrium – Price Discrimination – Monopolistic Competition – Features, Product Differentiation, Short-run and Long-run Equilibrium – Oligopoly – Features – Causes for the Existence of Oligopoly – Comparison of Perfect Competition, Monopoly, Monopolistic Competition, and Oligopoly.

UNIT – V: Income Distribution and Factor Pricing **12 Hours**

Demand for Factors of Production – Supply of Factors – Backward Bending Supply Curve of Labour – Functional Distribution of Income – Marginal Productivity Theory of Factor Pricing – Concepts of Economic Rent – Wage Determination – Interest and Profit – Factor Pricing under Different Market Conditions.

Total: 60 Hours

Suggested AI Tools / Software Tools

AI Tools / Software Tools	Purpose
Perplexity AI	Assists in understanding microeconomic theories, market structures, elasticity, and consumer behaviour by providing AI-powered explanations with referenced sources.
Microsoft Excel	Performs economic calculations, elasticity analysis, cost and revenue analysis, data visualization, and graphical representation of economic concepts
Desmos Graphing Calculator	Visualizes demand and supply curves, indifference curves, isoquants, cost curves, and market equilibrium through interactive graphs.
Perplexity AI	Assists in understanding microeconomic theories, market structures, elasticity, and consumer behaviour by providing AI-powered explanations with referenced sources.

TEXT BOOKS:

1. Sankaran. 2013."Business Economics" Margham publications Ltd . Chennai

REFERENCE BOOKS:

1. Case and Fair, Principles of Micro Economics, Pearson Education
2. Paul A Samuelson, William D Nordhaus, Microeconomics, McGraw-Hill Education.
3. P.N.Reddy & H.R.Appanaiah. 1995." Principles of Business Economics." New
4. Delhi..S.Chand & Company Ltd.
5. Ferguson & R.Rothschild. 1993. "Business Economics" Hong Kong. Macmillan Press
6. Ltd.
7. H.S.Agarwal. 1995. "Business Economics" Ratan Prakashan Mandir.
8. K.P.Sundaram and E.Sundaram 1997. Business Economics. New Delhi: Sultan Chand & Sons

WEBSITES

1. NPTEL – https://nptel.ac.in
2. SWAYAM – https://swayam.gov.in

CO, PO, PSO Mapping

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PO13	PO14	PO15	PSO1	PSO2
CO1	3	2	–	–	–	–	–	–	–	2	–	–	–	–	–	2	1
CO2	3	2	–	2	–	–	–	–	–	2	–	–	–	–	2	2	1
CO3	3	3	2	3	–	–	–	–	–	2	–	–	–	–	2	2	2
CO4	3	3	3	3	–	–	2	–	–	2	–	2	–	–	2	2	2
CO5	3	3	3	3	–	–	2	–	–	2	–	2	2	–	3	3	2
Average	**3**	**3**	**3**	**3**	**–**	**–**	**2**	**–**	**–**	**2**	**–**	**2**	**2**	**–**	**2**	**2**	**2**

1 - Low, 2 - Medium, 3 - High, '-' - No Correlation

26CIU241G **Web Designing** **5H-3C**

Instruction Hours / Week: L:1 T: 0 P: 4 **Marks:** Internal**: 50** External**: 50** Total**: 100**

End Semester Exam:3 Hours

COURSE OBJECTIVES (CO):

- To understand the concepts and architecture of the World Wide Web and technologies used in web programming.
- To develop skills in creating web pages using HTML, CSS, Frames, Forms, and Multimedia elements.
- To apply JavaScript concepts for creating interactive and event-driven web applications.

COURSE OUTCOMES (COs):

Upon completion of this course, the student will be able to:

COs	Course Outcomes	Blooms Level
CO1	Explain the fundamentals of web designing concepts, HTML structure, and formatting techniques	K2
CO2	Develop web pages using HTML elements, lists, tables, hyperlinks, frames, and forms	K3
CO3	Apply CSS properties and styling techniques for designing attractive web pages and layouts.	K3
CO4	Analyze and implement JavaScript programming concepts and object-oriented scripting techniques.	K4
CO5	Develop interactive and multi-page websites using HTML, CSS, Frames, Forms, and JavaScript.	K3
K1 - Remember; **K2** - Understand; **K3** - Apply; **K4** - Analyze; **K5** - Evaluate; **K6** – Create		

UNIT I : HTML AND WEB PAGE DESIGN	**3T+12P=15 HOURS**
What is HTML – HTML Documents – Basic Structure of an HTML Document – Creating an HTML Document – Markup Tags – Heading – Paragraphs – Line Breaks – HTML Tags – Working with Text – Lists – Tables – Hyperlinks – Images and Multimedia. **Activity / Practical Component:** • Create HTML documents using headings, paragraphs, colors, fonts, and formatting tags. • Design web pages with ordered and unordered lists. • Insert images and hyperlinks in HTML documents. • Develop HTML tables and apply formatting.	
UNIT II : FRAMES, FORMS AND MULTIMEDIA	**3T+12P=15 HOURS**
Introduction to Frames – <frameset> and <frame> Tags and their Attributes – Creating Frames – Linking Frames – <noframes> Tag – Complex Framesets – Floating or Inline Frames – Forms and Form Controls – Text Fields – Password Fields – Radio Buttons – Checkboxes – Reset and Submit Buttons – Text Area – Hidden Fields – Embedding Multimedia – Audio and Video Formats.	

Activity / Practical Component:

- Create web pages using horizontal and vertical frames.
- Develop multi-frame HTML documents.
- Design HTML forms with various input controls.
- Create student information forms using tables and forms.
- Embed audio and video elements in web pages.

UNIT III: CSS AND WEB STYLING	**3T+12P=15 HOURS**

Concept of CSS – Creating Style Sheets – CSS Properties – Background – Text Formatting – Font Control – Working with Block Elements and Objects – Lists and Tables – CSS ID and Class – Box Model – Border Properties – Padding Properties – Margin Properties.

Activity / Practical Component:

- Create style sheets for web pages.
- Apply CSS properties for fonts, colors, backgrounds, and borders.
- Design layouts using CSS box model concepts.
- Format tables and lists using CSS.
- Develop multi-page websites with CSS styling effects.

UNIT IV: JAVASCRIPT PROGRAMMING	**3T+12P=15 HOURS**

Introduction to JavaScript – Utility of JavaScript – Evolution of JavaScript Language – JavaScript Versions and Browser Support – Client-Side vs Server-Side JavaScript – Statements and Operators – Variable Declarations – Operator Precedence – Conditional and Looping Constructs.

Activity / Practical Component:

- Develop JavaScript programs using variables and operators.
- Implement conditional and looping statements.
- Create event-driven programs using alert boxes.
- Develop JavaScript programs for mathematical calculations.
- Create programs for factorial and largest number calculations.

UNIT V: JAVASCRIPT OBJECTS AND DYNAMIC WEB DESIGN FOR COMMERCE APPLICATIONS	**3T+12P=15 HOURS**

The JavaScript Object Model and Hierarchy – JavaScript Object Properties – Object Methods – New Keyword – This Keyword – Creating New Object Instances Using Constructor Functions – String, Date, and Array Objects – Construction of Custom Objects with Individual Properties and Methods – Introduction to E-Commerce Websites – Business Web Portals – Online Forms for Commerce Applications – Digital Catalogues and Customer Interaction Systems

Activity / Practical Component:

- Create programs using JavaScript objects.
- Implement string, array, and date object methods.
- Develop interactive web pages with event handling.
- Design dynamic multi-page websites.

- Create a simple online shopping webpage for commerce applications.
- Develop customer registration and feedback forms.
- Design complete business websites integrating HTML, CSS, and JavaScript concepts.

TOTAL: 75 HOURS

Suggested AI Tools / Software Tools

AI Tools / Software Tools	Purpose
Visual Studio Code	Web page creation and debugging
Sublime Text	Editing HTML, CSS, and JavaScript files
Notepad++	Lightweight code editor for web development
Google Chrome Developer Tools	Debugging and inspecting web pages
Replit	Online web development and collaboration
CodePen	Front-end web experimentation and testing
GitHub	Version control and website project sharing

TEXT BOOKS:

1. Paul McFedries, *Web Coding & Development All-in-One For Dummies*, 2018.
2. Randy Connolly & Ricardo Hoar, *Fundamentals of Web Development*, 2017.
3. Joel Sklar, *Principles of Web Design*, Sixth Edition, 2015.

REFERENCE BOOKS

1. Jon Duckett, *HTML and CSS: Design and Build Websites*, 2014.
2. Thomas A. Powell & Fritz Schneider, *JavaScript: The Complete Reference*, Third Edition, Tata McGraw Hill, 2013.

WEBSITES:

1. https://www.freecodecamp.org/
2. https://developer.mozilla.org/en-US/docs/Web/JavaScript
3. https://www.w3schools.com/
4. https://nptel.ac.in/
5. https://www.geeksforgeeks.org/web-development/

JOURNALS:

1. International Journal of Web Engineering and Technology
2. ACM Transactions on the Web
3. Journal of Web Development and Web Designing

IEEE Internet Computing

CO, PO, PSO Mapping

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PO13	PO14	PO15	PSO1	PSO2
CO1	3	2	1	1	1	-	-	1	-	1	1	-	-	-	1	2	1
CO2	3	2	2	2	2	-	1	1	-	2	2	-	-	-	1	3	2
CO3	3	3	3	2	2	1	1	2	-	2	2	-	-	1	1	3	2
CO4	2	3	2	3	2	1	1	2	1	2	2	-	-	-	1	2	3
CO5	3	3	3	3	3	1	1	2	-	2	2	-	1	1	1	3	3
Average	2.8	2.6	2.2	2.2	2.0	1	1	1.6	1	1.8	1.8	-	1	1	1	2.6	2.2

1 - Low, 2 - Medium, 3 - High, '-' - No Correlation

26SEC201G **Numerical Ability and Quantitative Aptitude** **2H-2C**

Instruction Hours / Week: L:2 T: 0 P: 0 **Marks:** Internal**: 100** External**: -** Total**: 100**

End Semester Exam:3 Hours

COURSE OBJECTIVES (CO):

- To develop numerical problem-solving skills using number systems, logarithms, averages, and arithmetic concepts.
- To apply mathematical techniques involving ratios, proportions, percentages, and mixtures to real-world scenarios.
- To analyze business mathematics problems related to profit and loss, interest, and motion.
- To solve advanced quantitative problems involving work, time, trains, boats, and streams.
- To interpret and analyze data using geometry, probability, statistics, and graphical representations.

COURSE OUTCOMES (COs):

Upon completion of this course, the student will be able to:

COs	Course Outcomes	Blooms Level
CO1	Apply numerical concepts and arithmetic techniques to solve problems involving numbers, logarithms, averages, and ages	K3
CO2	Analyze proportional relationships, percentages, mixtures, and comparative calculations in practical situations.	K4
CO3	Solve business mathematics and motion-related problems involving profit and loss, interest, time, speed, and distance.	K3
CO4	Examine work-efficiency and motion-based problems involving trains, boats, streams, pipes, and cisterns.	K4
CO5	Evaluate quantitative data using geometric principles, probability, statistics, permutations, combinations, and data interpretation techniques.	K5
K1 - Remember; **K2** - Understand; **K3** - Apply; **K4** - Analyze; **K5** - Evaluate; **K6** – Create		

UNIT I: NUMERICAL FOUNDATION AND COMPARATIVE CALCULUS **10 HOURS**

Number System & Problems on Numbers: Divisibility, HCF/LCM, Unit digits, Remainder theorem and Progressions. Simplification & Logarithms: BODMAS, Surds, Indices, and Logarithmic laws. Average & Problems on Ages: Mean values and age-related linear equations. Ratio, Proportion, Allegation & Mixture: Proportionality, Partnership and the rule of weighted averages in mixtures. Percentage: Concept of base values, Increase/Decrease in population, depreciation and successive percentage changes.

UNIT II: BUSINESS MATH & MOTION ANALYSIS **10 HOURS**

Profit and Loss: Basics, Discounts, Marked price, and Realtime application based problems. Interest Calculation: Simple and Compound Interest dynamics. Time, Speed, and Distance: Basics, Ratios, Relative speed and Average speed. Problems on Trains: Length-speed-time relation for moving objects. Boats and

Streams: Upstream and Downstream calculations. Time and Work & Pipes and Cisterns: Efficiency, man-hours, Distribution of amount, and inlet/outlet pipe problems.

UNIT III: GEOMETRY, LOGIC & DATA SCIENCE **10 HOURS**

Geometry & Mensuration: Properties and Relationships of 2D shapes and 3D volumes/surface areas. Permutation & Combination: Arrangement and selection techniques. Probability: Likelihood of events involving dice, cards, balls and coins. Elementary Statistics: Calculation of Mean, Median, Mode, Variance and Standard deviation. Data Interpretation: Extracting insights from Tables, Pie charts, Bar graphs, and Line graphs

TOTAL: 30 HOURS

Suggested AI Tools / Software Tools

AI Tools / Software Tools	**Purpose**
GeoGebra	Used for visualizing geometry, graphs, mensuration, and mathematical relationships interactively
Microsoft Excel	Used for statistical analysis, percentage calculations, charts, graphs, and data interpretation
Python	Supports problem solving, statistical computations, probability analysis, and mathematical programming.
Jupyter Notebook.	Interactive environment for executing mathematical and data analysis programs using Python

TEXT BOOKS:

1 Aggarwal, R. S. (2023). *Quantitative aptitude for competitive examinations* (Revised ed.). S. Chand Publishing.

2 Tyra, K. K. (2022). *Magical book on quicker mathematics*. BSC Publishing Co. Pvt. Ltd.

3 Rajesh Verma. (2022). *Fast track objective arithmetic*. Arihant Publications.

REFERENCE BOOKS:

1 Sharma, A. (2023). *How to prepare for quantitative aptitude for CAT* (11th ed.). McGraw Hill Education.

2 Abhijit Guha. (2022). *Quantitative aptitude for competitive examinations*. McGraw Hill Education.

3 Sinha, N. K. (2022). *Quantitative aptitude*. Pearson Education India.

4 Spiegel, M. R., Schiller, J., & Srinivasan, R. A. (2018). *Schaum's outline of probability and statistics* (4th ed.). McGraw Hill Education.

5 Ross, S. M. (2019). *Introduction to probability and statistics for engineers and scientists* (6th ed.). Academic Press.

6 Kapoor, V. K., & Sancheti, D. C. (2020). *Business mathematics*. Sultan Chand & Sons.

WEBSITES:

1 https://www.khanacademy.org/

2 https://byjus.com/maths/

3 https://www.mathsisfun.com

CO, PO, PSO Mapping

CO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12	PO 13	PO 14	PO 15	PSO 1	PSO 2
CO1	3	2	3	3	3	-	-	2	-	2	2	-	-	-	2	3	2
CO2	3	2	3	3	3	-	2	2	-	2	2	-	-	-	2	3	2
CO3	3	2	3	3	3	2	2	3	-	3	2	-	-	-	2	3	3
CO4	3	3	3	3	3	2	2	3	-	3	3	-	-	-	2	3	3
CO5	3	3	3	3	3	2	2	3	-	3	3	-	2	2	3	3	3
Average	3	2	3	3	3	2	2	2	-	3	2	-	1	1	2	3	3

1 - Low, 2 - Medium, 3 - High, '-' - No Correlation

26VAC201 **Advanced Yoga Practices** **3H-2C**

Instruction Hours / Week: L: 1 T: - P: 2 **Marks:** Internal**: 100** External**: -** Total**: 100**

End Semester Exam: -

Prerequisite – Students should be familiar with basic level yoga.

COURSE OBJECTIVES (CO):

- Perform intermediate and advanced Asanas with structural alignment, balance, and stability.
- Maintain controlled, synchronized breathing patterns while executing dynamic movements.
- Perform internal yogic cleansing and breathing exercises to optimize respiratory efficiency.
- Apply subtle hand gestures (Mudras) and systematic meditation stages to manage daily stress.
- Develop body awareness to recognize and self-correct alignment during personal practice.

COURSE OUTCOMES (COs):

Upon completion of this course, the student will be able to:

COs	Course Outcomes	Blooms Level
CO1	Execute foundational, intermediate, and advanced yogic postures with correct anatomical form.	K2
CO2	Perform advanced Pranayama and internal cleansing Kriyas effectively.	K3
CO3	Utilize targeted Mudras and structured meditation steps to induce deep mental relaxation.	K4
CO4	Demonstrate proper muscle contraction and breath coordination during specialized movements.	K6
CO5	Perform a continuous, self-guided daily yoga routine independently.	K4
K1 - Remember; **K2** - Understand; **K3** - Apply; **K4** - Analyze; **K5** - Evaluate; **K6** – Create		

UNIT I: FOUNDATIONS OF ASANA THEORY **6 HOURS**

Introduction to Asanas: Definition, historical context, and physiological importance. Structural mechanics of foundational postures. Detailed study of sitting, prone, and twisting techniques: Padmasan, Gaumukhasan, Badrasan, Vajrajasan, Shashankasan, Halasan, Sarpasan, and Ardhdhanurasan

UNIT II: DYNAMIC FLOW AND STRETCHING **6 HOURS**

Suryanamaskar: Complete 12-cycle dynamic sequence with breath synchronization and mantra integration. Progressive standing and balancing postures: Pashchimotasan, Ushtrasan, Tadasan, Padhastasan, Ardhchandrasan, Bhujangasan, Utanpadasan, and Sawasan (Corpse pose for deep somatic restoration).

UNIT III: PRANAYAMA AND YOGIC KRIYAS **6 HOURS**

Suryanamaskar Pranayama: Definition, significance, and metabolic benefits. Advanced Pranayama practices: Shital, Shitkari, Bhastrika, Bhramari, Omkar chanting, Suryabhedan, Chandranbhedan, and Anulom Vilom

(Alternate Nostril Breathing). Introduction to Yogic Cleansing (Kriyas): Kapalbhati, Tratak (Gazing), Jalneti (Nasal Cleansing), and Tribandh (The Three Energy Locks).

UNIT IV: MEDITATION AND MUDRAS **6 HOURS**

Meditation: Advanced theoretical framework and practical demonstration sessions. Energetic seals (Mudras): Definition, neurological importance, and element balancing. Practical training in Gyanmudra, Dhyanmudra, Vayumudra, Akashmudra, Pruthvimudra, Shunyamudra, Suryamudra, Varumudra, Pranmudra, Apanmudra, Vyanmudra, and Uddanmudra.

UNIT V: BIO-MAGNETISM, KUNDALINI MEDITATION, AND PHYSICAL APPLICABILITY **6 HOURS**

Introduction to Vethathiriyam philosophy on physical health, Life Force (Spiritual Energy), and Bio-magnetism. Advanced practice and experiential mastery of Simplified Kundalini Meditation: Agna (eyebrow center awareness for mental focus), Shanthi (peace meditation for emotional balance), and Thuriya (crown center awareness for higher consciousness). Application of personal yoga routines in daily student life to improve concentration, manage exam stress, boost physical immunity.

TOTAL: 30 HOURS

Suggested AI Tools / Software Tools

AI Tools / Software Tools	Purpose
Yoga-Go	AI-assisted yoga workouts, personalized practice plans, and progress monitoring.
Meditopia	Guided meditation, mindfulness exercises, and stress-management practices.

TEXT BOOKS:

1. World Community Service Center. (2022). *Advanced yoga techniques for higher education*. World Community Service Center (WCSC), Aliyar.
2. Iyengar, B. K. S. (2005). *Light on yoga: The classic guide to yoga by the world's foremost authority* (Revised ed.). Schocken Books.

REFERENCE BOOKS:

1. Saraswati, S. S. (2013). *Asana pranayama mudra bandha* (Revised ed.). Bihar School of Yoga.
2. Chandrasekaran, K. (2010). *Sound health through yoga*. Prem Kalyan Publications.
3. Vethathiri Maharishi. (2014). *Simplified physical exercises*. World Community Service Center (WCSC), Aliyar.
4. Sivananda, S. (2009). *The science of pranayama*. Divine Life Society.
5. Muktibodhananda, S. (2012). *Hatha yoga pradipika*. Bihar School of Yoga.

WEBSITES:

1. https://ccryn.gov.in

2 https://www.theyogainstitute.org

CO, PO, PSO Mapping

CO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12	PO 13	PO 14	PO 15	PSO 1	PSO 2
CO1	-	-	-	-	-	-	-	-	2	-	3	-	-	-	2	2	2
CO2	-	-	-	-	-	-	-	-	-	-	2	-	2	-	3	3	3
CO3	-	-	-	-	-	-	-	-	-	-	2	-	2	-	3	3	3
CO4	-	-	-	-	-	-	-	-	-	-	2	-	2	-	3	3	3
CO5	-	-	-	-	-	-	-	-	-	-	3	-	-	-	2	2	2
Average	-	-	-	-	-	-	-	-	2	-	2.4	-	2	-	2.6	2.6	2.6

1 - Low, 2 - Medium, 3 - High, '-' - No Correlation

Prerequisite – Students should be familiar with beauty artistry – basic level

COURSE OBJECTIVES (CO):

- Develop advanced skills in skin care and facial techniques.
- Enhance professional skills in skin, hair, nail, and makeup techniques.
- Apply appropriate beauty treatments using suitable tools and products.
- Practice salon hygiene, safety, and effective client consultation.
- Prepare for careers and entrepreneurship in the beauty industry.

COURSE OUTCOMES (COs):

Upon completion of this course, the student will be able to:

COs	Course Outcomes	Blooms Level
CO1	Understand the fundamentals of beauty artistry, skin, hair, and nail care.	K2
CO2	Perform professional makeup for vocational, engagement, and bridal occasions.	K3
CO3	Demonstrate facial treatments, massage, manicure, and pedicure techniques.	K3
CO4	Apply basic haircutting, layering, hairstyling, and product selection skills.	K3
CO5	Practice professional salon management, client consultation, and entrepreneurial skills.	K3
K1 - Remember; **K2** - Understand; **K3** - Apply; **K4** - Analyze; **K5** - Evaluate; **K6** – Create		

UNIT I : ADVANCED BEAUTY ARTISTRY AND SKIN CARE **6 HOURS**

Introduction to beauty artistry, professional ethics and hygiene, skin analysis, skin types and skin care routine, facial consultation, product knowledge, oil massage techniques, floral moulding masque, peel-off masque.

UNIT II: PROFESSIONAL MAKEUP TECHNIQUES **6 HOURS**

Makeup consultation, skin preparation for makeup, color correction and foundation matching, lighting settings for makeup, makeup tools and product knowledge, makeup finishing techniques.

UNIT III: HAIR CARE AND HAIR STYLING **6 HOURS**

Hair structure and hair care, scalp analysis, oil massage techniques, hair care products and product knowledge, haircutting fundamentals, different types of layers, long layer, short round layer, butterfly layer, basic

hairstyling for special occasions.

UNIT IV: NAIL CARE AND GROOMING **6 HOURS**

Nail anatomy, nail structure, nail diseases and disorders, nail hygiene, cut, file and shape techniques, manicure procedures, pedicure procedures, hand and foot care, professional nail grooming.

UNIT V: BRIDAL BEAUTY AND SALON MANAGEMENT **6 HOURS**

Bridal beauty planning, consultation for brides, makeup and hairstyle coordination, engagement and bridal look creation, client communication, salon safety and sanitation, customer service, career opportunities and entrepreneurship in beauty artistry.

TOTAL: 30 HOURS

Suggested AI Tools / Software Tools

AI Tools / Software Tools	Purpose
L'Oréal Beauty Genius	AI-powered skin analysis and personalized skincare recommendations

TEXT BOOKS:

1 Draelos, Z. D. (2024). *Cosmetic Dermatology: Products and Procedures* (4th ed.). Wiley-Blackwell.

REFERENCE BOOKS:

1 Rigg, Elizabeth. (2019). *Hairdressing: The Foundations of Hairdressing* – Cengage Learning.

2 Mali, Ritu. (2021). *Advanced Beauty Therapy and Cosmetology* – Kalyani Publishers.

WEBSITES:

1 https://www.lorealprofessionnel.com

2 https://www.youcamapps.com

CO, PO, PSO Mapping

CO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12	PO 13	PO 14	PO 15	PSO 1	PSO 2
CO1	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	2
CO2	-	-	3	-	-	-	-	-	-	-	-	-	-	-	2	3	3
CO3	-	-	3	-	-	-	-	-	-	-	-	-	-	-	2	3	3
CO4	-	-	-	-	2	-	-	-	-	-	-	-	-	-	2	3	3
CO5	-	-	-	-	-	-	1	-	-	-	3	-	-	2	3	3	2
Average	3	-	2	-	2	-	1	-	-	-	3	-	-	2	2.6	3.0	2.6

1 - Low, 2 - Medium, 3 - High, '-' - No Correlation

26VAC203G **Swara Gaanam (Music) - Advanced Level** **3H-2C**

Instruction Hours / Week: L: 1 T: - P: 2 **Marks:** Internal**: 100** External**: -** Total**: 100**

End Semester Exam: -

PREREQUISITE

Students should be familiar with basic level of music

COURSE OBJECTIVES (CO):

- Introduce the fundamental concepts and technical terminology of Indian music.
- Develop an understanding of rhythm, tune, pitch, and various music genres and traditions.
- Familiarize learners with patriotic and devotional songs dedicated to Lord Shiva, Lord Krishna, Lord Murugan, Lord Hanuman and Lord Ayyapan.
- Develop basic vocal skills, rhythm sense, and musical expression through the practice of devotional songs.
- Promote appreciation of Indian cultural and spiritual heritage through music.

COURSE OUTCOMES (COs):

Upon completion of this course, the student will be able to:

COs	Course Outcomes	Blooms Level
CO1	Recognize the basic principles and terminology of Indian music.	K1
CO2	Explain the concepts of rhythm, tune, pitch, and musical traditions.	K2
CO3	Assess the importance of devotional music in preserving Indian cultural heritage.	K5
CO4	Practice and render selected devotional songs with confidence and musical accuracy.	K3
CO5	Compare devotional compositions based on their musical features.	K4
K1 - Remember; **K2** - Understand; **K3** - Apply; **K4** - Analyze; **K5** - Evaluate; **K6** – Create		

UNIT I: BASIC THEORY OF INDIAN MUSIC **6 HOURS**

Introduction – Technical terms – Rhythm – Tune – Pitch – Music Genres and Traditions. Patriotic Song – (Tamizh Tai Vazhthu and National Anthem)

UNIT II: DEVI SONGS **6 HOURS**

Dheena Karunakarane, Shiva Shiva Shankara

UNIT III: KRISHNA SONGS **6 HOURS**

Vanamali Radha Ramana, Balakrishnan di avan

UNIT IV: MURUGAN SONGS **6 HOURS**

Valli Kanavan Perai, Azhagana Pazhanimalai

UNIT V: HANUMAN AND AYYAPAN SONGS **6 HOURS**

Prabhu Ramachandra ki Dhootha, Harivarasanam Vishva Mohanam

TOTAL: 30 HOURS

Suggested AI Tools / Software Tools

AI Tools / Software Tools	Purpose
Suno AI	Melody generation and devotional music experimentation
Moises AI	Vocal separation and practice tracks
Musicca	Interactive music theory exercises
AIVA AI	AI-assisted music composition

TEXT BOOKS:

1 Sambamoorthy, P. (2018). *South Indian music* (Book I). The Indian Music Publishing House.

2 Sambamoorthy, P. (2016). *A dictionary of South Indian music and musicians*. The Indian Music Publishing House.

3 Bhagyalekshmy, S. (2010). *Ragas in Carnatic music*. CBH Publications

REFERENCE BOOKS:

1 Sambamoorthy, P. (2012). Elements of Indian music. The Indian Music Publishing House.

2 Viswanathan, T., & Cormack, M. (1998). An introduction to Indian music. Wesleyan University Press.

3 Subramanian, L. (2006). From the Tanjore court to the Madras Music Academy: A social history of music in South India. Oxford University Press.

4 Pesch, L. (2009). The Oxford illustrated companion to South Indian classical music. Oxford University Press.

5 Narayan, S. (2011). Carnatic music for beginners. Giri Trading Agency.

WEBSITES:

1 https://sangeetnatak.gov.in

2 https://musicacademymadras.in/

CO, PO, PSO Mapping

CO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12	PO 13	PO 14	PO 15	PSO 1	PSO 2
CO1	3	-	-	-	-	-	-	-	-	-	-	-	-	-	2	3	1
CO2	-	-	-	-	-	-	-	-	-	-	-	-	2	-	2	3	2
CO3	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	3	2
CO4	-	-	3	-	-	-	-	-	-	-	-	-	-	-	-	3	3
CO5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	3	3
Average	3	-	3	-	2	-	-	-	-	-	-	-	2	-	2.3	3.0	2.2

1 - Low, 2 - Medium, 3 - High, '-' - No Correlation

26VAC204G **Freestyle Fusion (Dance) - Advanced Level** **3H-2C**

Instruction Hours / Week: L: 1 T: - P: 2 **Marks:** Internal**: 100** External**: -** Total**: 100**

End Semester Exam: -

PREREQUISITE

Students should be familiar with basic level of dance

COURSE OBJECTIVES (CO):

- Develop advanced dance techniques, physical conditioning, and body control required for freestyle performance.
- Enhance musicality by interpreting various rhythms, tempos, and musical genres through movement.
- Cultivate creativity and spontaneity through improvisation and movement exploration.
- Design and perform choreographed dance sequences using advanced compositional techniques.
- Evaluate and present professional-quality solo and group freestyle dance performances.

COURSE OUTCOMES (COs):

Upon completion of this course, the student will be able to:

COs	Course Outcomes	Blooms Level
CO1	**Demonstrate** advanced dance techniques, conditioning exercises, floor work, and core stability skills in freestyle dance.	K3
CO2	**Analyze** musical structures, rhythms, and tempos to create appropriate movement interpretations.	K4
CO3	**Create** original freestyle dance sequences through improvisation, thematic exploration, and instant choreography techniques.	K6
CO4	**Design** and **construct** choreographic compositions incorporating formations, transitions, and performance elements	K5
CO5	**Evaluate** personal and group dance performances through peer review, self-assessment, and performance critique.	K4
K1 - Remember; **K2** - Understand; **K3** - Apply; **K4** - Analyze; **K5** - Evaluate; **K6** – Create		

UNIT I: ADVANCED DANCE FUNDAMENTALS **6 HOURS**

Advanced dance concepts, posture and alignment, flexibility and coordination, rhythm techniques, advanced dance vocabulary, introduction to dance styles.

UNIT II: ADVANCED HIP-HOP TECHNIQUES **6 HOURS**

Advanced Hip-Hop movements, grooves and footwork, isolations, popping and locking basics, musicality, beat understanding, synchronization with music.

UNIT III: CHOREOGRAPHY AND CREATIVE MOVEMENT **6 HOURS**

Choreography principles, movement composition, formations and transitions, improvisation, expression,

teamwork, rehearsal techniques.

UNIT IV: PERFORMANCE AND DIGITAL CONTENT CREATION **6 HOURS**

Stage performance techniques, expressions and presentation, costume selection, music editing basics, video recording, dance video production.

UNIT V: PRACTICAL TRAINING AND FINAL PERFORMANCE **6 HOURS**

Dance practice sessions, choreography execution, performance evaluation, stage preparation, individual and group showcase.

TOTAL: 30 HOURS

Suggested AI Tools / Software Tool

AI Tools / Software Tools	Purpose
Adobe Express AI	Dance event promotion and visual content creation.
CapCut AI	Dance video editing, motion effects, and performance review.

TEXT BOOKS:

1 Smith-Autard, J. M. (2014). *Dance composition: A practical guide to creative success in dance making* (6th ed.). Bloomsbury Publishing.

2 Minton, S. C. (2017). *Choreography: A basic approach using improvisation* (4th ed.). Human Kinetics.

3 Giguere, M. (2014). *Beginning modern dance*. Human Kinetics.

REFERENCE BOOKS:

1 Gilbert, A. G. (2015). *Creative dance for all ages* (2nd ed.). Human Kinetics.

2 Haas, J. G. (2010). *Dance anatomy*. Human Kinetics.

3 McCutchen, B. P. (2006). *Teaching dance as art in education*. Human Kinetics.

4 Blom, L. A., & Chaplin, L. T. (1988). *The intimate act of choreography*. University of Pittsburgh Press.

5 Foster, S. L. (2011). *Choreographing empathy: Kinesthesia in performance*. Routledge.

WEBSITES:

1 https://dancefit.in

2 https://www.ucanji.com

3 https://www.dancex.in

CO, PO, PSO Mapping

CO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12	PO 13	PO 14	PO 15	PSO 1	PSO 2
CO1	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	2
CO2	-	-	-	-	-	-	3	-	-	-	-	-	-	-	-	3	3
CO3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	3	3
CO4	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-	2	3
CO5	-	-	-	-	-	-	3	-	-		-	-	-	-	-	3	3
Average	3	-	-	-	-	-	3	-	-	2	-	-	-	-	2	2.8	2.8

1 - Low, 2 - Medium, 3 - High, '-' - No Correlation

26VAC205G **Fashion Design & Tailoring** **3H-2C**

Instruction Hours / Week: L: 1 T: - P: 2 **Marks:** Internal**: 100** External**: -** Total**: 100**

End Semester Exam: -

COURSE OBJECTIVES (CO):

- Introduce the fundamentals of fashion design and garment construction.
- Develop skills in fashion illustration, color application and design principles.
- Impart knowledge of textile materials, sewing tools, and tailoring techniques.
- Train students in pattern drafting, cutting, stitching, and garment finishing.
- Encourage entrepreneurship and self-employment opportunities in fashion and tailoring.

COURSE OUTCOMES (COs):

Upon completion of this course, the student will be able to:

COs	Course Outcomes	Blooms Level
CO1	Understand the fundamentals of fashion design and design principles.	K2
CO2	Apply fashion illustration techniques and color concepts in garment design.	K3
CO3	Identify textile materials, sewing tools, and machine operations used in tailoring.	K3
CO4	Develop patterns and construct garments using appropriate cutting and stitching techniques.	K6
CO5	Demonstrate garment finishing, quality control, and basic entrepreneurship skills for fashion-related businesses.	K5
K1 - Remember; **K2** - Understand; **K3** - Apply; **K4** - Analyze; **K5** - Evaluate; **K6** – Create		

UNIT I: INTRODUCTION TO TAILORING **6 HOURS**

Importance and scope of tailoring. Identification and use of tailoring tools and equipment such as measuring tape, scissors, needles, pins, chalk, and rulers. Introduction to different types of fabrics and their uses. Basic body measurements and garment sizing.

UNIT II: SEWING MACHINE AND BASIC STITCHES **6 HOURS**

Parts and functions of a sewing machine, threading the machine, and machine maintenance. Study of hand stitches and machine stitches. Practice of running stitch, back stitch, hemming stitch, overcasting stitch, and basic machine stitching techniques.

UNIT III: GARMENT CONSTRUCTION TECHNIQUES **6 HOURS**

Fabric preparation, marking, and cutting techniques. Introduction to seams, seam finishes, hems, pleats, gathers, tucks, and darts. Attachment of buttons, hooks, zippers, and other fasteners. Simple methods of joining garment parts and finishing edges.

UNIT IV: PATTERN DRAFTING AND BASIC GARMENTS **6 HOURS**

Introduction to pattern drafting and layout. Taking body measurements and preparing simple patterns. Fabric layout and cutting methods. Drafting and stitching of basic garments such as handkerchief, apron, petticoat, simple skirt, salwar, and basic kurti.

UNIT V: GARMENT FINISHING AND ENTREPRENEURSHIP **6 HOURS**

Garment finishing techniques including pressing, ironing, and quality checking. Repair and alteration of garments. Basic costing and pricing of stitched garments. Introduction to tailoring as a self-employment opportunity, customer handling, and small tailoring unit management.

TOTAL: 30 HOURS

Suggested AI Tools / Software Tools

AI Tools / Software Tools	**Purpose**
Tailornova	AI-assisted fashion design, pattern creation, and garment visualization.

TEXT BOOKS:

1 Doongaji, S. & Gupta, R. (2018). *Basic Tailoring and Dress Making.* Raj Prakashan, New Delhi.

2 Zarapkar, K. R. (2015). *System of Cutting.* Navneet Publications, Mumbai.

REFERENCE BOOKS:

1 Armstrong, H. J. (2019). *Pattern Making for Fashion Design* (6th ed.). Pearson Education.

2 Cooklin, G. (2018). *Garment Technology for Fashion Designers.* Wiley-Blackwell.

WEBSITES:

1 https://www.nift.ac.in

2 https://www.fashionunited.in

CO, PO, PSO Mapping

CO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12	PO 13	PO 14	PO 15	PSO 1	PSO 2
CO1	3	-	-	-	-	-	-	-	-	-	-	-	-	-	3	1	1
CO2	-	-	3	-	2	-	-	-	-	-	-	-	-	-	-	2	2
CO3	-	-	-	-	2	-	-	-	-	-	3	-	-	-	3	2	2
CO4	-	-	3	-	-	-	-	2	-	-	-	-	-	-	2	3	3
CO5	-	-	-	-	-	-	2	-	-	-	-	-	-	2	3	3	3
Average	3	-	3	-	2	-	2	2	-	-	3	-	-	2	2.8	2.2	2.2

1 - Low, 2 - Medium, 3 - High, '-' - No Correlation

26VAC206G **Prompt Engineering and Gen AI** **3H-2C**

Instruction Hours / Week: L: 1 T: - P: 2 **Marks:** Internal**: 100** External**: -** Total**: 100**

End Semester Exam: -

COURSE OBJECTIVES (CO):

- To introduce the fundamentals of Artificial Intelligence, Generative AI, and Large Language Models.
- To develop skills in prompt engineering and effective AI interaction techniques.
- To provide knowledge of ChatGPT and AI-based text generation applications.
- To enable the development of AI applications using LangChain and related frameworks
- To understand vector databases, embeddings, and Retrieval-Augmented Generation (RAG).

COURSE OUTCOMES (COs):

Upon completion of this course, the student will be able to:

Cos	Course Outcomes	Blooms Level
CO1	Understand AI, Generative AI, and LLM concepts.	K2
CO2	Design effective prompts using prompt engineering techniques.	K3
CO3	Apply ChatGPT and LLMs for text generation tasks.	K4
CO4	Develop AI applications using LangChain and related tools	K6
CO5	Implement vector databases and RAG techniques.	K4
K1 - Remember; **K2** - Understand; **K3** - Apply; **K4** - Analyze; **K5** - Evaluate; **K6** – Create		

UNIT I: FUNDAMENTALS OF PROMPT ENGINEERING **6 HOURS**

Prompt Engineering - The Five Principles of Prompting, Writing Effective Prompts, Context and Role-Based Prompting, Few-shot and Zero-shot Prompting, Prompt Refinement and Best Practices.

UNIT II: FOUNDATIONS OF LARGE LANGUAGE MODELS (LLMs) **6 HOURS**

Large Language Models (LLMs), Evolution of Language Models, Transformer Architecture, Tokenization and Embeddings, Text Generation Process, Applications and Limitations of LLMs.

UNIT III: TEXT GENERATION USING ChatGPT **6 HOURS**

ChatGPT, Prompt Techniques, Text Generation and Content Creation, Summarization and Paraphrasing, Response Evaluation and Refinement, Best Practices for ChatGPT.

UNIT IV: ADVANCED AI ENGINEERING APPLICATIONS DEVELOPMENT WITH LANG CHAIN **6 HOURS**

LangChain, Prompt Templates, Chains and Sequential Workflows, Memory Management, Document Loaders and Retrieval, Tool and API Integration, Building AI Applications with LangChain.

UNIT V: VECTOR DATABASES AND RETRIEVAL – AUGUMENTED GENERATION 6 HOURS

Vector Embeddings, Vector Databases, Similarity Search, FAISS Fundamentals, Pinecone Fundamentals, Vector Indexing and Retrieval, Retrieval-Augmented Generation (RAG)

TOTAL: 30 HOURS

Suggested AI Tools / Software Tools

AI Tools / Software Tools	Purpose
Google Gemini	AI-powered search, text generation, data analysis,
ChatGPT	Text generation, question answering, content creation, coding assistance, summarization, translation, and conversational AI

TEXT BOOKS:

1 Russell, S., & Norvig, P. (2021). *Artificial intelligence: A modern approach* (4th ed.). Pearson.

2 Goodfellow, I., Bengio, Y., & Courville, A. (2016). *Deep learning*. MIT Press.

REFERENCE BOOKS:

1 Ng, A. (2018). *Machine learning yearning*. DeepLearning.AI.

2 Alammar, J., & Grootendorst, M. (2024). *Hands-on generative AI with transformers and diffusion models*. O'Reilly Media.

WEBSITES:

1 https://platform.openai.com/docs/guides/prompt-engineering

2 https://www.promptingguide.ai

CO, PO, PSO Mapping

CO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12	PO 13	PO 14	PO 15	PSO 1	PSO 2
CO1	2	-	2	-	-	-	-	-	-	2	-	-	-	-	2	1	1
CO2	2	-	2	-	-	-	-	2	-	2	-	-	-	-	-	2	2
CO3	2	-	3	-	-	-	-	2	-	-	1	-	-	-	2	2	2
CO4	-	-	3	-	2	-	-	2	-	2	1	-	-	-	2	3	3
CO5	2	-	2	-	-	-	-	2	-	-	2	-	-	-	-	3	3
Average	2	-	2.4	-	2	-	-	2	-	2	1.3	-	-	-	2	2.2	2.2

1 - Low, 2 - Medium, 3 - High, '-' - No Correlation

26VAC207G **Fundamentals Of Drone Design and Operation** **3H-2C**

Instruction Hours / Week: L: 1 T: - P: 2 **Marks:** Internal**: 100** External**: -** Total**: 100**

End Semester Exam: -

COURSE OBJECTIVES (CO):

- Introduce the fundamentals, types, and applications of drone technology.
- Provide knowledge of drone components, sensors, communication systems, and flight control mechanisms.
- Develop skills in drone design, assembly, operation, and maintenance.
- Understand drone navigation systems, autonomous flight, and practical applications.
- Create awareness about advanced drone technologies, safety practices, and regulations.

COURSE OUTCOMES (COs):

Upon completion of this course, the student will be able to:

COs	Course Outcomes	Blooms Level
CO1	Understand the fundamentals, types, and applications of drone technology.	K2
CO2	Identify drone components, systems, sensors, and communication technologies.	K3
CO3	Apply knowledge of drone design, assembly, operation, and maintenance.	K4
CO4	Understand drone navigation, autonomous flight, and real-world applications.	K2
CO5	Analyze advanced drone technologies, safety measures, and regulatory guidelines.	K4
K1 - Remember; **K2** - Understand; **K3** - Apply; **K4** - Analyze; **K5** - Evaluate; **K6** – Create		

UNIT I: INTRODUCTION TO DRONES **6 HOURS**

Drone technology - history and evolution of drones, types of drones (fixed-wing, multirotor, hybrid), drone components, principles of flight, applications of drones in agriculture, photography, surveying, healthcare, logistics, disaster management, and drone regulations and safety guidelines.

UNIT II: DRONE SYSTEMS AND OPERATIONS **6 HOURS**

Drone hardware components, flight controllers, motors, propellers, batteries, GPS, sensors, communication systems, remote controllers, pre-flight inspection, flight planning, take-off and landing procedures, basic flight controls, and maintenance practices.

UNIT III: DRONE FLIGHT TRAINING AND DATA ACQUISITION **6 HOURS**

Manual and autonomous flight operations, waypoint navigation, aerial photography and videography, image

acquisition, mapping and surveying, precision agriculture applications, payload management.

UNIT IV: DRONE DATA PROCESSING AND AI APPLICATIONS **6 HOURS**

Image and video processing, photogrammetry, GIS mapping, drone data analysis, AI-assisted flight planning, object detection, precision agriculture using AI, drone fleet management, cloud-based drone data management, and report generation.

UNIT V: ENTREPRENEURSHIP, REGULATIONS AND FUTURE TRENDS **6 HOURS**

Drone business opportunities, DGCA regulations and licensing, ethical and legal aspects, startup opportunities, drone maintenance, digital marketing, AI tools for drone operations, emerging trends in UAV technology, and career opportunities.

TOTAL: 30 HOURS

Suggested AI Tools / Software Tools

AI Tools / Software Tools	Purpose
Microsoft Copilot	Documentation, project planning, and drone application analysis.

TEXT BOOKS:

1 Garg, R. K. (2021) – Drone Technology: Concepts, Design and Applications – Wiley India

REFERENCE BOOKS:

1 Barnhart, Richard K., Hottman, Stephen B., Marshall, Douglas M. & Shappee, Eric (2016) – *Introduction to Unmanned Aircraft Systems* – CRC Press.

2 Valavanis, Kimon P. & Vachtsevanos, George J. (2015) – Handbook of Unmanned Aerial Vehicles – Springer.

WEBSITES:

1 https://ardupilot.org/

2 https://www.dji.com/

CO, PO, PSO Mapping

CO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12	PO 13	PO 14	PO 15	PSO 1	PSO 2
CO1	2	-	2	-	-	-	-	-	-	2	-	-	-	-	2	1	1
CO2	2	-	2	-	-	-	-	2	-	2	-	-	-	-	-	2	2
CO3	2	-	3	-	-	-	-	2	-	-	1	-	-	-	2	2	2
CO4	-	-	3	-	2	-	-	2	-	2	1	-	-	-	2	3	3
CO5	2	-	2	-	-	-	-	2	-	-	2	-	-	-	-	3	3
Average	2	-	2.4	-	2	-	-	2	-	2	1.3	-	-	-	2	2.2	2.2

1 - Low, 2 - Medium, 3 - High, '-' - No Correlation

26VAC208G **Financial Literacy and Money Management** **3H-2C**

Instruction Hours / Week: L: 1 T: - P: 2 **Marks:** Internal**: 100** External**: -** Total**: 100**

End Semester Exam: -

COURSE OBJECTIVES (CO):

- Introduce the fundamentals of financial literacy and personal finance management.
- Develop skills in budgeting, saving, and financial discipline.
- Provide knowledge of banking services and digital financial transactions.
- Create awareness about investments, insurance, and financial planning.
- Educate students about financial frauds, cybersecurity, and safe banking practices.

COURSE OUTCOMES (COs):

Upon completion of this course, the student will be able to:

COs	Course Outcomes	Blooms Level
CO1	Understand basic financial concepts and banking systems	K2
CO2	Apply budgeting and saving techniques for personal finance.	K3
CO3	Understand digital banking services and secure online transactions.	K2
CO4	Identify investment options, insurance, and risk management.	K6
CO5	Develop skills for financial planning and fraud awareness.	K4
K1 - Remember; **K2** - Understand; **K3** - Apply; **K4** - Analyze; **K5** - Evaluate; **K6** – Create		

UNIT I: INTRODUCTION TO FINANCIAL LITERACY **6 HOURS**

Meaning and Importance of Financial Literacy – Personal Finance – Sources of Income – Income, Expenses, Assets and Liabilities – Banking System – Procedure for Opening a Bank Account – KYC Requirements – Basic Banking Services.

UNIT II: BUDGETING AND SAVING **6 HOURS**

Personal Budget and Household Budget -Preparation of a Simple Budget -Saving and Spending Habits -Emergency Fund -Simple Interest and Compound Interest -Importance of Financial Discipline

UNIT III: BANKING AND DIGITAL FINANCE **6 HOURS**

Types of Bank Accounts -Banking Services -ATM, Debit Card and Credit Card -Internet Banking and Mobile Banking -UPI and Digital Wallets -Cyber Security and Safe Digital Transactions

UNIT IV: INVESTMENT AND INSURANCE BASICS **6 HOURS**

Meaning and Need for Investment -Risk and Return -Bank Deposits -Mutual Funds (Introduction) -Public Provident Fund (PPF) -National Pension System (NPS) -Life Insurance and Health Insurance

UNIT V: FINANCIAL PLANNING AND FRAUD AWARENESS **6 HOURS**

Personal Financial Planning -Managing Debt and Credit -Basic Tax Awareness -Financial Frauds (Phishing, Vishing, UPI, QR Code, OTP and Card Frauds) -Safe Digital Banking Practices -Consumer Protection

TOTAL: 30 HOURS

Suggested AI Tools / Software Tools

AI Tools / Software Tools	Purpose
Google Gemini	Financial research, data analysis, report generation, and financial information assistance.
Microsoft Copilot	Creating financial reports, analyzing spreadsheets, and improving productivity.

TEXT BOOKS:

1 Kapoor, J. R., Dlabay, L. R., Hughes, R. J. & Hart, M. M. (2022) – *Personal Finance* – McGraw Hill Education.

2 Kothari, R. (2021) – *Financial Literacy and Personal Finance* – Wiley India.

REFERENCE BOOKS:

1 Vitt, L. A. & Siegenthaler, J. K. (2019) – *Money for the Rest of Us: Personal Finance Basics* – Wiley

2 Mishkin, F. S. (2021) – *The Economics of Money, Banking, and Financial Markets* – Pearson Education.

WEBSITES:

1 https://www.rbi.org.in

2 https://www.nism.ac.in

3 https://www.sebi.gov.in

CO, PO, PSO Mapping

CO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12	PO 13	PO 14	PO 15	PSO 1	PSO 2
CO1	3	-	-	-	-	-	-	-	-	-	-	-	-	-	3	3	2
CO2	3		2	1	-	-	-	-	-	-	-	-	-	-	-	3	3
CO3	2	-	-	-	-	-	-	-	2	2	2	-	-	-	1	3	3
CO4	-	-	-	-	-	-	-	-	3	-	2	-	-	-	1	2	3
CO5	-	-	3	-	-	-	-	-	-	3	-	-	2	-	1	3	3
Average	2.7	-	2.5	1	-	-	-	-	2.5	2.5	2	-	2	-	1.5	2.8	2.8

1 - Low, 2 - Medium, 3 - High, '-' - No Correlation

26VAC209G **Short Film Production Techniques** **3H-2C**

Instruction Hours / Week: L: 1 T: - P: 2 **Marks:** Internal**: 100** External**: -** Total**: 100**

End Semester Exam: -

COURSE OBJECTIVES (CO):

- Introduce the fundamentals of film making and production techniques.
- Develop skills in story writing, script preparation, and planning.
- Provide knowledge of cinematography, camera handling, and direction.
- Train students in video editing and post-production techniques.
- Enable students to create creative short films using digital media tools.

COURSE OUTCOMES (COs):

Upon completion of this course, the student will be able to:

Cos	Course Outcomes	Blooms Level
CO1	Understand film making concepts and processes.	K2
CO2	Develop story writing and script planning skills.	K3
CO3	Apply camera, direction, and cinematography techniques.	K3
CO4	Perform video editing and post-production activities.	K3
CO5	Create and present short films using digital media tools.	K6
K1 - Remember; **K2** - Understand; **K3** - Apply; **K4** - Analyze; **K5** - Evaluate; **K6** – Create		

UNIT I: INTRODUCTION TO SHORT FILM MAKING **6 HOURS**

Introduction to Short Films, Types of short films, Story, message, and audience, Parts of a story (Beginning, Middle, End), Watching and discussing sample short films

UNIT II: STORY DEVELOPMENT AND PRE-PRODUCTION **6 HOURS**

Finding ideas for stories, Writing a simple script, Characters and dialogues, Storyboard basics, Planning locations, costumes, and props.

UNIT III: CINEMATOGRAPHY AND FILM PRODUCTION **6 HOURS**

Equipment basics, Different shots, Camera angles and movements, Basic lighting, Recording clear sound, Safety while shooting.

UNIT IV: FILM EDITING AND POST-PRODUCTION **6 HOURS**

Importing video clips, Basic video editing, Titles and background music, Simple colour correction, Exporting the final video, Reviewing the edited film

UNIT V: FILM DISTRIBUTION AND PROJECT PRESENTATION **6 HOURS**

Team planning, Student project on Shooting a short film (under 5mts), Editing the final project, Online Screening, Peer feedback, Self-reflection and improvement.

TOTAL: 30 HOURS

Suggested AI Tools / Software Tools

AI Tools / Software Tools	Purpose
Claude AI	Script analysis, story improvement, and content refinement.
Adobe Firefly	AI-based image editing, visual effects, and creative design for films.

TEXT BOOKS:

1 Rabiger, Michael. (2020). *Directing: Film Techniques and Aesthetics* – Focal Press.

2 Katz, Steven D. (2019). *Film Directing: Shot by Shot* – Michael Wiese Productions.

REFERENCE BOOKS:

1 Bordwell, David & Thompson, Kristin. (2021). *Film History: An Introduction* – McGraw Hill Education.

WEBSITES:

1 https://ayush.gov.in

2 https://nofilmschool.com

CO, PO, PSO Mapping

CO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12	PO 13	PO 14	PO 15	PSO 1	PSO 2
CO1	3	-	2	-	3	-	-	-	-	-	-	-	-	-	2	3	1
CO2	3	-	2	-	-	-	-	-	-	2	2	-	-	-	3	3	2
CO3	2	-	3	-	-	-	-	-	-	2	-	-	-	-	2	3	2
CO4	2	-	3	-	-	-	-	-	-	3	3	-	-	-	-	3	3
CO5	2	-	2	-	-	-	-	-	-	-	2	-	-	-	2	3	3
Average	2.4	-	2.4	-	3	-	-	-	-	2.3	2.3	-	-	-	2.2	3.0	2.2

1 - Low, 2 - Medium, 3 - High, '-' - No Correlation

COURSE OBJECTIVES (CO):

- To understand the basics and importance of microgreens.
- To learn cultivation techniques and crop management practices.
- To gain knowledge on harvesting, processing, and storage methods.
- To understand nutritional value and applications of microgreens.
- To develop skills for commercial production and entrepreneurship.

COURSE OUTCOMES (COs):

Upon completion of this course, the student will be able to:

COs	Course Outcomes	Blooms Level
CO1	Understand the concepts, types, and nutritional importance of microgreens.	K2
CO2	Apply suitable cultivation techniques, growing media, and crop management practices for microgreens production.	K3
CO3	Demonstrate commercial-scale microgreens production using controlled environment and hydroponic cultivation methods.	K3
CO4	Evaluate different production methods, harvesting techniques, and commercial feasibility of microgreens cultivation.	K5
CO5	Develop a microgreens production plan and design strategies for sustainable cultivation and entrepreneurship	K6
K1 - Remember; **K2** - Understand; **K3** - Apply; **K4** - Analyze; **K5** - Evaluate; **K6** – Create		

UNIT I: INTRODUCTION TO MICROGREENS **6 HOURS**

Definition of microgreens, History and importance of microgreens, Difference between sprouts, microgreens and baby greens, Nutritional and health benefits, Types and varieties of microgreens, Scope and applications of microgreens.

UNIT II: GROWING REQUIREMENTS AND CULTIVATION **6 HOURS**

Seed selection and quality, Growing media, Containers and trays, Environmental requirements (light, temperature and humidity), Seed sowing techniques, Germination process, Watering and irrigation methods, Organic cultivation practices

UNIT III: CROP MANAGEMENT AND HARVESTING **6 HOURS**

Growth monitoring, Nutrient management, Pest and disease management, Prevention of mold and fungal growth, Hygiene and sanitation, Harvesting techniques, Post-harvest handling, Packaging and storage, Shelf-life management.

UNIT IV: NUTRITIONAL VALUE AND CULINARY APPLICATIONS **6 HOURS**

Nutritional composition of microgreens, Health benefits, Functional food properties, Culinary uses, Value-added products, Food safety and quality standards.

UNIT V: ENTREPRENEURSHIP AND BUSINESS MANAGEMENT **6 HOURS**

Setting up a microgreen production unit, Cost of cultivation, Business planning, Marketing strategies, Branding and packaging, Pricing and distribution, Sales channels, Profitability analysis, Record keeping and enterprise management.

TOTAL: 30 HOURS

Suggested AI Tools / Software Tools

AI Tools / Software Tools	**Purpose**
CropIn	Farm management, crop monitoring, production tracking

TEXT BOOKS:

1 Hill, F. (2021). *Microgreens: A guide to growing nutrient-packed greens*. Green Books Publishing.

2 Despommier, D. (2011). *The vertical farm: Feeding the world in the 21st century*. Thomas Dunne Books.

REFERENCE BOOKS:

1 Kozai, T., Niu, G., & Takagaki, M. (2020). *Plant factory: An indoor vertical farming system for efficient quality food production* (2nd ed.). Academic Press, Elsevier.

WEBSITES:

1. https://www.microgreensresource.com/
2. https://homemicrogreens.com/

CO, PO, PSO Mapping

CO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12	PO 13	PO 14	PO 15	PSO 1	PSO 2
CO1	1	-	-	-	-	-	-	-	-	-	2	-	-	-	3	3	2
CO2	-	-	3	-	-	-	-	-	-	-	-	-	-	-	2	3	3
CO3	2	-	-	-	-	-	-	2	-	-	-	-	-	-	2	3	3
CO4	-	-	2	-	-	-	-	2	-	-	2	-	-	-	2	3	3
CO5	-	-	-	-	-	-	-	-	-	-	3	-	-	2	2	3	2
Average	1.5	-	2.5	-	-	-	-	2	-	-	2.3	-	-	2	2.2	3.0	2.6

1 - Low, 2 - Medium, 3 - High, '-' - No Correlation

26VAC211G **Community Engagement and Social Responsibility** **1H-1C**

Instruction Hours / Week: L: 1 T: - P: - **Marks:** Internal**: 50** External**: -** Total**: 50**

End Semester Exam: -

COURSE OBJECTIVES (CO):

- To introduce the fundamental concepts, principles, ethics, and practices of community engagement and rural development.
- To develop an understanding of rural development programmes, local governance, community participation, self-help groups, and government welfare schemes.
- To enable students to analyze community issues, apply ethical research practices, and evaluate community engagement initiatives for sustainable rural development and disaster mitigation.

COURSE OUTCOMES (COs):

At the end of this course, students will be able to

COs	Course Outcomes	Blooms
CO1	Define the concepts, ethics, principles, and spectrum of community engagement, community development, and rural culture.	Remember
CO2	Explain the stages, components, and significance of community engagement, self-help groups, public resources, and rural development programmes.	Understand
CO3	Apply the knowledge of rural development programmes, local administration, government schemes, and community networking to address community needs.	Apply
CO4	Analyze community-related issues such as rural poverty, rural distress, migrant labor challenges, disaster mitigation, and evaluate the effectiveness of community engagement programmes.	Analyze
CO5	Evaluate the role of community-engaged research and ethical practices in promoting sustainable rural development and improving community well-being.	Evaluate

UNIT I INTRODUCTION AND PRINCIPLES 5 HOURS

Concept, Ethics and Spectrum of Community engagement, Local community, Rural culture and Practice of community engagement - Stages, Components and Principles of community development, Utility of public resources. Contributions of self-help groups.

UNIT II RURAL DEVELOPMENT 5 HOURS

Rural Development Programs and Rural institutions Local Administration and Community Involvement-Social contribution of community networking, Various government schemes. Programmes of community engagement and their evaluation.

UNIT III COMMUNITY AND RESEARCH 5 HOURS

Community Engaged Research and Ethics in Community Engaged Research Rural Distress, Rural Poverty, Impact of COVID-19 on Migrant Laborers, Mitigation of Disaster.

Total: 15 HOURS

TEXT BOOKS:

1. Principles of Community Engagement, (2011). 2nd Edition, NIH Publication No. 11-7782.

2. Tripathy, S.N., and Panda, S., (2011). Fundamentals of Environmental Studies; 3rdEdition, Vrianda Publications Private Ltd., New Delhi.
3. Kumar, A., (2004). A Textbook of Environmental Science; APH Publishing Corporation, New Delhi.

REFERENCE BOOKS:

1. Singh, M.P., Singh, B.S., and Dey, S.S., (2004). Conservation of Biodiversity and Natural Resources. Daya Publishing House, Delhi.
2. Uberoi, N.K., (2010). Environmental Studies, Excel Books Publications, New Delhi, India.
3. Maier RM, Pepper IL, Gerba CP (2019). Environmental Microbiology, Elsevier.
4. Bruce E Rittmann and Perry L McCarty. (202) Environmental Biotechnology. Principles and Applications. 2ndedition. McGraw-Hill International.

WEBSITES:

1. https://youtu.be/-SQK9RGBt7o
2. https://www.uvm.edu/sites/default/files/commUNITy_engagement_handout.pdf (CommUNITy Engagement)
3. https://www.atsdr.cdc.gov/commUNITyengagement/pce_concepts.html (Perspectives of CommUNITy).
4. https://sustainingcommUNITy.wordpress.com/2013/07/09/ethics-and-commUNITy-engagement/ (Ethics of commUNITy engagement)
5. https://www.preservearticles.com/sociology/what-are-the-essential-elements-of-commUNITy/4558 (Elements of CommUNITy)
6. https://www.yourarticlelibrary.com/sociology/rural-sociology/rural-commUNITy-top-10-characteristics-of-the-rural-commUNITy-explained/34968 (features of rural community)
7. https://www.mapsofindia.com/my-india/government/schemes-for-rural-development- launched-by-government-of-india (Government programmes for rural development)
8. https://www.yourarticlelibrary.com/sociology/rural-sociology/rural-commUNITy-top-10-characteristics-of-the-rural-commUNITy-explained/34968 (rural lifestyle)
9. https://www.insightsonindia.com/social-justice/issues-related-to-rural-development/government-schemes-for-rural-development-in-india/ (schemes for rural development)

10. CO–PO–PSO Mapping

COs	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO10	PO11	PO12	PO13	PO14	PO15	PSO 1	PSO 2
CO1	2	2	2	2	2	1	2	2	2	1	2	3	3	2	2	1	3
CO2	2	2	3	3	2	2	3	2	2	2	2	3	3	2	2	2	3
CO3	2	2	3	3	3	3	2	3	2	2	3	3	3	2	3	2	3
CO4	2	3	3	3	3	3	3	2	3	2	3	3	3	3	3	2	3
CO5	2	3	3	3	3	3	3	2	3	2	3	3	3	3	3	2	3
Average	**2.0**	**2.4**	**2.8**	**2.8**	**2.6**	**2.4**	**2.6**	**2.2**	**2.4**	**1.8**	**2.6**	**3.0**	**3.0**	**2.4**	**2.6**	**1.8**	**3.0**

11. **3** – High, **2** – Medium, **1** – Low, **–** – No Correlation.