

# **B.Com. (COMPUTER APPLICATIONS)**

## **CHOICE BASED CREDIT SYSTEM (CBCS)**

### **Curriculum and Syllabus**

#### **Regular (2025–2026)**



**DEPARTMENT OF COMMERCE WITH COMPUTER APPLICATIONS**  
**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**

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**FACULTY OF ARTS, SCIENCE, COMMERCE AND MANAGEMENT**

**UNDER – GRADUATE PROGRAMMES**

**B.Com CA**

**(REGULAR PROGRAMME)**

**REGULATIONS**

**(2025)**

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

### REGULATIONS – 2025 - 2026

The following regulations shall apply to candidates admitted to Undergraduate (UG) programmes in the Faculty of Arts, Science, Commerce and Management, Karpagam Academy of Higher Education (KAHE) from the academic year 2025-2026 onwards.

#### 1 PROGRAMMES OFFERED, MODE OF STUDY AND ADMISSION REQUIREMENTS

##### 1.1 UG Programmes Offered

A candidate may undergo any one of the undergraduate programmes approved by KAHE as given 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 Technology
16.	B.Sc.	Computer Science (Cognitive Systems)

17.	B.Sc.	Computer Science (Artificial Intelligence and Data Science)
18.	B.Sc.	Computer Science (Cyber Security)

### 1.2 Admission Requirements (Eligibility)

A student for admission to the first year of the UG degree Programme shall be required to have passed the Higher Secondary Examination (10 + 2) [Academic or Vocational] prescribed by the Government of Tamil Nadu Board or any similar examination of any other Board accepted by KAHE as equivalent thereto. (Annexure I)

### 1.3 Mode of Study

All Programmes are offered under Full-Time Regular mode.

## 2. DURATION OF THE PROGRAMMES

2.1 The minimum and maximum period for the completion of the UG Programmes are given below:

Programme(s) (Honors)	Min. No. of Semesters	Max. No. of Semesters
B.Sc., B.Com., BCA and BBA	8	15

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

### 2.3 Multiple Entry and Exit

Undergraduate degree programmes of either 3 or 4-year duration, with multiple entry and exit points and re-entry options, with appropriate certifications such as: UG certificate after completing 1 year (2 semesters) of study in the chosen fields of study, UG diploma after 2 years (4 semesters) of study, bachelor's degree after a 3-year (6 semesters) programme of study, 4-year bachelor's degree (honours) after eight semesters programme of study. If the student completes a rigorous research project in their major area(s) of study in the 4th year of a bachelor's degree (honours with research). The 4-year bachelor's degree programme is considered a preferred option since it would provide the opportunity to experience the full range of holistic and multidisciplinary education in addition to a focus on the chosen major and minors as per the choices of the student. Similarly, the student from other institutions can join Karpagam Academy of Higher Education in the 3<sup>rd</sup>, 5<sup>th</sup> or 7<sup>th</sup> semester with an appropriate UG Certificate or UG Diploma or Bachelor's Degree respectively.

### **3. CHOICE BASED CREDIT SYSTEM**

Credit means the weightage given to each course by the experts of the Board of Studies concerned. All programmes are offered under Choice Based Credit System with a minimum of 124 and up to a maximum of 134 credits for three years. Additional credits of 40 can also be earned on successful completion of fourth year. A range of 164 to 174 credits are offered as per the UGC Guidelines for the four-year UG Programme.

### **4. STRUCTURE OF THE PROGRAMME**

Major Courses, Minor Courses, Multi-Disciplinary Courses (MDC), Skill Enhancement Courses (SEC), Ability Enhancement Courses (AEC), Value Added Courses (VAC) (Common to all UG Programmes), Summer Internship, Minor Project (for 3 Year programme), Research Project/Dissertation (for 4 Year programme) are part of curricular structure.

#### **4.1 Major Courses**

Major Courses consist of theory and practical components of department domains. The student has to earn a minimum of 60/80 Credits in Major Courses for 3/4 years programme respectively.

#### **4.2 Minor Courses**

Students have courses from Major disciplinary / interdisciplinary minors and skill-based courses. Students have to earn a minimum of 24/32 Credits in Minor Courses for 3/4 years programme respectively.

#### **4.3 Multi Disciplinary Courses (MDC)**

All UG students are required to undergo 3 introductory-level courses relating to any of the broad disciplines. These courses are intended to broaden the intellectual experience and form part of liberal arts and science education. The students have to study three Multi-Disciplinary Courses and they have to earn a minimum of 09 Credits.

#### **4.4 Skill Enhancement Courses (SEC)**

These courses are aimed at imparting practical skills, hands-on training, soft skills, etc., to enhance the employability of students. Three Skill Enhancement Courses are offered within the first four semesters. Students have to earn a minimum of 09 Credits in Skill Enhancement Courses.

#### **4.5 Ability Enhancement Course (AEC)**

There are four Ability Enhancement Courses offered during the first four semesters. Three credits are awarded for each course and students have to earn a minimum of 12 Credits in Ability Enhancement Courses. Tamil or any one of the Indian / Foreign Languages *viz*, Hindi, Malayalam, Sanskrit, French is offered as an Ability Enhancement Course (AEC) for Arts, Science, Commerce and Management Programmes.

#### **4.6 Value Added Courses (VAC)**

The students shall study Value Added Courses in the first four semesters of their programme. 6 to 8 credits need to be earned under VAC. The assessment of the VAC is based on Internal Evaluation.

#### **4.7 Internship**

The students exiting the programme after first or second year must have completed an internship/apprenticeship of 02 or 04 credits respectively during the first year and second year summer term.

#### **4.8 Minor Project Work**

The project work shall start at the beginning of the sixth semester in the Department/Industry/Research Institute (National/International) and the project report has to be submitted at the end of the sixth semester. The project may be an individual or group task. The Head of the Department concerned shall assign a project supervisor who in turn shall monitor the project work of the student(s). A project work shall be carried out by the students and they have to earn 06 to 08 credits.

If the candidate undertakes the Project work outside the Department, the faculty concerned within the Department shall be the Supervisor and the teacher/scientist of the host institute will be the Co-supervisor. The candidate shall bring the attendance certificate from the place where the project work was carried out.

A Project Assessing Committee (PAC) shall be constituted with HoD and two senior faculty members of the Department. The PAC shall announce the dates for the reviews and demonstration. Three reviews shall be conducted as part of internal assessment. The student shall make a presentation on the progress and demonstration of their project before the PAC in the presence of their supervisor on the scheduled dates.

#### **4.9 Research Project /Dissertation**

The candidates shall undertake the Research Project work in the eighth Semester in the Department/Industry/Research Institute (National / International). The report shall be submitted at the end of the eighth semester. Students have to earn a minimum of 12 Credits in Research Project/Dissertation Work.

If the candidate undertakes the Research Project work outside the Department, the faculty concerned within the Department shall be the Supervisor and the teacher/scientist of the host Institute will be the Co-supervisor. The candidate shall bring the attendance certificate from the place where the project work was carried out.

HoD shall assign a Project Supervisor who shall monitor the student's project work(s). A Project Assessing Committee (PAC) shall be constituted with HoD and two senior faculty members of the Department. The PAC shall announce the dates for the reviews and demonstration. Three reviews shall be conducted as part of internal assessment. The student shall make a presentation on the progress and demonstration of their project before the PAC in the presence of their Supervisor on the scheduled dates.

#### **Approval of the project**

The candidate has to submit, in consultation with his/her supervisor, the title, objective and the action plan of his/her project to the PAC on the first review. Only after obtaining the approval of PAC, the student can initiate the project work.

### **5. ADVANCED LEARNERS AND ON-DEMAND EXAMINATION**

Students who secure 7.5 CGPA, maintain an attendance of 80% in every semester and clear all the courses in their first appearance itself are referred to as advanced learners. When a student fails to maintain any of these conditions at any given time, the student will no longer retain advanced learner status.

These students can request for an on-demand examination for the courses from second semester onwards. These students on prior registration can appear for examinations well in advance and complete the entire courses well before the prescribed period of study and can progress for a full time Research Project/Internship/Minor Project during the remaining prescribed period of study. The Internal and External examinations shall be conducted for these courses as like the other courses. One or more faculty mentors will be allocated based on the number of students/courses enrolled for the on-demand

examination. When the number of students enrolled for a particular course is less than 30, only self-learning mode is applicable and will be monitored by the mentor. Otherwise, a faculty will handle the course after regular working hours. The examination will be conducted along with the current semester courses.

Also, these advanced learners can register for online courses from NPTEL/SWAYAM/SWAYAM Plus portals on prior and proper approval from the department. The credits earned from those courses will be transferred to the mark statement of the students as in Clause 6.

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

Students are encouraged to enroll in courses offered by NPTEL/Swayam/Swayam Plus platforms and international institutions of higher learning, either virtually or in person. The equivalent credits for these courses will be determined by a committee named Subject & Grade Equivalence Committee consisting of the Dean of the Faculty (Chairman), Dean (R&D and Industrial Relations), Head of the Department (HoD), and a faculty member nominated by the Vice Chancellor. The committee's decision will be submitted for ratification/approval by the Board of Studies (BoS) and the Academic Council. If the student fails in NPTEL/Swayam/ Swayam Plus course, he/she can appear for the examination conducted by the University for the equivalent course in the curriculum.

## **7. EXTRA CURRICULAR ACTIVITIES**

Every student is encouraged to participate in at least any one of the following activities:

- National Service Scheme (NSS)
- National Cadet Corps (NCC)
- Sports / Mass drill
- Youth Red Cross (YRC)
- Club activities
- Other Extra-curricular activities

The student's performance shall be examined by the staff in-charge of activities along with the faculty mentor and the Head of the respective department. Marks for Extra-curricular shall be sent to the Controller of Examination (CoE) before the commencement of the Sixth End Semester Examinations.

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9.	BBA	Business Administration
10.	BCA	Computer Applications
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## **7. EXTRA CURRICULAR ACTIVITIES**

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The student's performance shall be examined by the staff in-charge of activities along with the faculty mentor and the Head of the respective department. Marks for Extra-curricular shall be sent to the Controller of Examination (CoE) before the commencement of the Sixth End Semester Examinations.

## **8. MEDIUM OF INSTRUCTION**

The medium of instruction and examinations for the courses under Language I – Tamil / Hindi / Malayalam / French / Sanskrit shall be in the language concerned. For all other courses, the medium of instruction and examination is in English.

## **9. SCHEME OF EXAMINATION**

**Evaluation:** Evaluation of the course comprises two parts such as the Continuous Internal Assessment (CIA) and the End Semester Examination (ESE) until or otherwise the course is explicitly mentioned as only internal/only external.

The theory and practical courses shall carry a maximum of 100 marks, out of which 40 percent of marks are awarded for Continuous Internal Assessment (CIA) and 60 percent of marks for End Semester Examinations (ESE). When it is only an internal assessment course, 100 percent of marks are awarded for Continuous Internal Assessment.

## **10. FACULTY MENTOR**

To help students in planning their courses of study and for general advice on the academic programme, the HoD shall allot twenty students to a faculty who will function as a faculty mentor throughout their period of study. A Faculty mentor shall advise the students and monitor their behavior and academic performance. Problems if any shall be counseled by them periodically. The faculty mentor is also responsible to inform the parents of their mentee's progress. The faculty mentor shall display the cumulative attendance particulars of his / her mentees periodically (once in 15 working days) on the Notice Board to know their attendance status and satisfy clause 14 of this regulation.

## **11. ONLINE COURSE COORDINATOR**

To help students for planning their online courses and for general orientation on online courses, the HoD shall nominate a coordinator for the online courses. The Online course coordinator shall identify the courses which students can select for their programme from the available online courses offered by different agencies periodically and inform the same to the students. Further, the coordinators shall orient the students regarding the online courses and monitor their participation.

## **12. CLASS COMMITTEE**

Every class shall have a Class Committee consisting of the faculty members of various courses of the class concerned, student representatives (Minimum 2 boys and 2 girls of various capabilities and Maximum of 6 members) and the concerned HoD / senior faculty as Chairperson. The objective of the Class Committee Meeting is all about the teaching – learning process. The Class Committee shall be convened at least once in a month. The constitution and functions of the Class Committee shall include

- 1.The class committee shall be constituted during the first week of each semester.
- 2.The Class Committee of a particular class of any department is normally constituted by the HoD/Chairperson of the Class Committee. However, if the students of different departments are mixed in a class, the Class Committee shall be constituted by the respective Dean of the Faculty.
- 3.The HoD/Chairperson of the Class committee is authorized to convene the meeting of the class committee.
4. The respective Dean of the Faculty has the right to participate in any Class committee meeting.
5. The Chairperson is required to prepare the minutes of every meeting, and submit the same to the Dean concerned within two days after having convened the meeting. Serious issues, if any, shall be brought to the notice of the Registrar by the HoD/Chairperson immediately.
- 6.Analyzing and solving problems experienced by students in the classroom and in the laboratories.
- 7.Analyzing the performance of the students of the class after each test and finding the ways and means to improve the performance.

## **13. 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 respective 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 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). The Course Committee Meeting is conducted once in a semester. To indicate the common course, the Course Code should be suffixed with the letter “G”.

#### **14. ATTENDANCE REQUIREMENTS TO APPEAR FOR THE END SEMESTER EXAMINATION**

a. Every student is expected to attend all classes and should secure 100% attendance. However, in order to allow for certain unavoidable circumstances, the student is expected to have at least 75% of attendance and the conduct of the student has been satisfactory during the Programme.

b. A candidate who has secured attendance between 65.00% and 74.99% (both included), due to medical reasons (Hospitalization / Accident / Specific Illness) shall be given exemption from prescribed minimum attendance requirements and shall be permitted to appear for the examination on the recommendation of the Head of the Department concerned and the Dean. The Head of the Department has to verify and certify the genuineness of the case before recommending it to the Dean concerned. However, the candidate has to execute an undertaking along with the parent and assure that this situation does not arise in the future. This permission is given only once during the entire period of study.

c. A candidate who has secured attendance between 55.00% and 64.99% (both included), due to medical reasons (Hospitalization / Accident / Specific Illness with all the medical records, bills and discharge summary), will not be presented to that semester examination. However, that candidate will be permitted to go to the next semester wherein he / she has to compensate for the previous semester's lack of attendance. In such a case, the candidate will be permitted to write both semester examinations at the end of the next semester. This combination of lack of attendance can be done only between subsequent semesters. That is 1 & 2 or 2 & 3 or 3 & 4 or 4 & 5 or 5 & 6.

d. However, a Student who has secured less than 55% in any of the semesters due to any reasons, shall not be permitted to appear for the End Semester Examinations. But he/she will be permitted to appear for his/her arrear examinations. In order to redo the semester with lack of attendance, he/she has to attend the corresponding semester of the subsequent year(s) with the approval of the Dean of the Faculty, Dean - Students Affairs and the Registrar.

## 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 of students marked for each lecture/practical/ project work, the CIA, Assignment and Seminar marks and the record of class work completed (topic covered), separately for each course. This should be submitted to the HoD once in a week for checking the syllabus coverage, records of test marks and attendance. The HoD shall sign with the date after due verification. The same shall be submitted to the respective Dean once in a fortnight. After the completion of the semester, the HoD should keep this record in safe custody for five years as records of attendance and assessment and shall be submitted for inspection as and when required by the KAHE/any other approved body.

**15.2 Continuous Internal Assessment (CIA):** The performance of students in each course will be continuously assessed. Retest will be conducted and considered based on the requirements and recommendations by the Head of the Department on valid reasons. The distribution of marks for the Continuous Internal Assessment (CIA) are given below:

### Theory Courses

S. No.	Category	Maximum Marks
1.	Assignment	5
2.	Attendance	5
3.	Seminar	5
4.	Test – I (2 ½ Units)	12.5
5.	Test – II (2 ½ Units)	12.5
<b>Total</b>		40

### For Environmental Studies and Universal Human Values:

S. No.	Category	Maximum Marks
1.	Assignment	15
2.	Attendance	5
3.	Test – I (2 ½ Units)	40
4.	Test – II (2 ½ Units)	40
<b>Total</b>		100

**For Yoga for Youth Empowerment:**

S. No.	Category	Maximum Marks
1.	Activity	15
2.	Attendance	5
3.	Test – I (2 ½ Units)	40
4.	Test – II (2 ½ Units)	40
<b>Total</b>		100

**For Community Engagement and Social Responsibility:**

S. No.	Category	Maximum Marks
1.	Field Visit	15
2.	Attendance	5
3.	Test – I (1 ½ Units)	40
4.	Test – II (1 ½ Units)	40
<b>Total</b>		100

**Practical Courses**

S.No.	Category	Maximum Marks
1.	Attendance	5
2.	Observation work	5
3.	Record work	5
4.	Internal Practical Assessment	20
5.	<i>Viva – voce</i> [Comprehensive]*	5
<b>Total</b>		<b>40</b>

\* *Viva- voce* is conducted during the model practical exam.

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

### 15.3 Pattern of Test Question Paper

**Theory Courses:**

**Maximum Marks : 60\***

**Duration: 2 ½ Hours**

Section	Marks
Part – A	Answer ALL the Questions (6 x 2 = 12 Marks)
Part - B	Answer ALL the Questions (3 x 6 = 18 Marks) (‘either – or’ type )
Part - C	Answer ALL the Questions (3 x 10 = 30 Marks) (‘either – or’ type )

\* The 60 Marks will be converted to 12.5 Marks.

### 15.4 Attendance

#### Distribution of Marks for Attendance

S. No.	Attendance (%)	Maximum Marks
1	91 and above	5
2	81 - 90	4
3	75-80	3

### 16. ESE EXAMINATIONS

**16.1 End Semester Examination (ESE):** End Semester Examination will be conducted at the end of each semester for each course. The question paper is for a maximum of 100 marks.

## 16.2 Pattern of ESE Question Paper:

### Theory Courses:

**Maximum Marks: 100\***

**Duration: 3 Hours**

Section	Marks
Part – A	Answer ALL the Questions (10 x 2 = 20 Marks)
Part - B	Answer ALL the Questions (5 x 6 = 30 Marks) ( ‘either – or’ type )
Part - C	Answer ALL the Questions (5 x 10 = 50 Marks) ( ‘either – or’ type )

\*The 100 Marks will be converted 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.	Experiments	40
2.	Record work	10
3.	<i>Viva – voce</i> [Comprehensive]	10
<b>Total</b>		<b>60</b>

### 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. Evaluation of Project Work

**16.3.1** The project work shall carry a maximum of 100 marks.

(CIA - 40 and ESE – 60)

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

**Maximum Marks: 40**

S. No.	Category	Maximum Marks
1.	Problem Selection	10
2.	Progress of the work (3 reviews X 5 marks)	15
3.	Presentation of the work (3 reviews X 5 marks)	15
<b>Total</b>		<b>40</b>

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

**Maximum Marks: 60\***

S. No.	Category	Maximum Marks
1.	Project Report	30
2.	Project Presentation	20
3.	Viva Voce	10
<b>Total</b>		<b>60*</b>

\*Combined valuation of Internal and External Examiners.

**16.3.2** The project report prepared according to the approved guidelines and duly signed by the supervisor(s) shall be submitted to HoD.

**16.3.3** The evaluation of the project will be based on the project report submitted and a *viva-voce* examination by a team consisting of the supervisor, who will be the Internal Examiner and an External Examiner who shall be appointed by the Controller of Examination. In case the supervisor is not available, the HoD shall act as an Internal Examiner for the same.

**16.3.4** If a candidate fails to submit the project report on or before the specified date given by the Examination Section, the candidate is deemed to have failed in the Project Work and shall re-enroll for the same in a subsequent semester.

If a candidate fails in the respective viva-voce examinations he/she has to resubmit the Project Report within 30 days from the date of declaration of the results. The resubmitted report shall be evaluated in the subsequent semester.

**16.3.5** A Copy of the approved project report after the successful completion of *viva-voce* examination shall be kept in the KAHE library.

## **17. PASSING REQUIREMENTS**

**17.1** Passing minimum: A candidate needs to secure a minimum of 20 marks out of 40 marks in CIA and 30 marks out of 60 marks in ESE. The overall passing minimum in each course is 50 marks out of 100 marks.

**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** Candidate failed in internal assessment will be permitted to reappear to pass the internal assessment in the subsequent semesters by writing tests and by re-submitting Assignments/ Seminars.

The distribution of marks for this test shall be as given below.

<b>S. No.</b>	<b>Category</b>	<b>Maximum Marks</b>
1.	Assignment	5
2.	Attendance (Retained from the respective semester)	5
3.	Seminar	5
4.	Test*	25
	<b>Total</b>	40

\* Tests shall be conducted in the ESE pattern for 100 marks and converted to 25 marks.

The examination should be completed within 6 weeks after 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**

The Candidates desirous to improve the marks secured in a course which they passed in their first attempt, shall reappear once (**only in ESE**) in the subsequent semester. **The improved marks shall be considered for classification but not for ranking.** If there is no improvement, there shall be no change in the marks awarded earlier.

### **20. AWARD OF LETTER GRADES**

All the assessments of a course will be done on an absolute marks 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:

<b>Letter grade</b>	<b>Marks Range</b>	<b>Grade Point</b>	<b>Description</b>
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 6<sup>th</sup> Semester Grade Sheet)
- GPA of a Semester and CGPA of a programme will be calculated as follows.

$$\text{GPA of a Semester} = \frac{\sum_i C_i G P_i}{\sum_i C_i}$$

Sum of the product of the GP by the  
-----  
Sum of the credits of the courses of  
that Semester

i.e. **GPA** of a Semester =  $\frac{\sum_i C_i G P_i}{\sum_i C_i}$

Sum of the product of the GPs by the corresponding credits of the courses offered for the entire programme

**CGPA** of the entire programme =

-----

Sum of the credits of the courses of the entire programme

i.e. **CGPA** of the entire programme =  $\frac{\sum_n \sum_i C_{ni} G P_{ni}}{\sum_n \sum_i C_{ni}}$

where,

- C<sub>i</sub> is the credit fixed for the course 'i' in any semester
- G<sub>Pi</sub> 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 can apply for revaluation or re-totaling of his / her semester examination answer script (**theory courses only**), within 2 weeks from the date

of declaration of results on payment of a prescribed fee. The prescribed application has to be sent to the Controller of Examinations through the HoD. **A candidate can apply for revaluation of answer scripts not exceeding 5 courses at a time.** The Controller of Examinations will arrange for the revaluation and the results will be intimated to the candidate through the HoD concerned. Revaluation is not permitted for Supplementary Examinations.

### **23. TRANSPARENCY AND GRIEVANCE COMMITTEE**

Revaluation and Retotaling are allowed on representation (clause 22). Students may get the Xerox copy of the answer script on payment of prescribed fee, if he / she wishes. The student may represent the grievance, if any, to the Grievance Committee, which consists of Dean of the Faculty, (if Dean is HoD, the Dean of another Faculty nominated by the KAHE), the HoD of Department concerned, the faculty of the course and Dean from other discipline nominated by the KAHE and the CoE. If the Committee feels that the grievance is genuine, the script may be sent for external valuation and the marks awarded by the External examiner will be final. The student has to pay the prescribed fee for the same.

### **24. ELIGIBILITY FOR THE AWARD OF THE DEGREE**

**A student shall be declared to be eligible for the conferment of the Degree if he / she**

24.1 Successfully completed all the components prescribed by Curriculum and Credit Framework for Undergraduate Programme of UGC and earned the minimum required credits as specified in the curriculum corresponding to his / her programme within the stipulated period (vide clause 2.1).

24.1 No pending disciplinary enquiry/ action against him/her

24.2 The award of the degree must be 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 the examination in all the courses in their first appearance, within the specified minimum number of semesters and securing a **CGPA not less than 8** shall be declared to have passed the examination in the **First Class with Distinction.**

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

**25.3** Candidates (not covered in clauses 25.1 and 25.2) who qualify for the award of the degree (vide Clause 24) shall be declared to have passed the examination in the **Second Class.**

## **26. RANKING**

Candidates who qualify for the UG Degree programme passing all the Examinations in the first attempt, within the minimum period prescribed for the programme of study from Semester I through Semester VI/VIII to the programme shall be eligible for ranking. Such ranking will be confined to 10% of the total number of candidates qualified in that particular programme of study 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.

## **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).

## **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.

## 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 <b>Biology, Botany, Zoology, or Chemistry</b> 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 <b>Computer Science or Mathematics</b> 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 <b>Biology, Botany, Zoology, or Chemistry</b> 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 <b>Computer Science or Mathematics</b> 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 <b>Computer Science or Mathematics</b> 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 <b>Computer Science or Mathematics</b> 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 <b>Computer Science or Mathematics</b> 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 <b>Computer Science or Mathematics</b> 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 <b>Commerce</b> 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 <b>Commerce</b> 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 <b>Commerce</b> 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 <b>Commerce</b> 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 <b>Commerce</b> 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 <b>Commerce</b> 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 <b>Commerce</b> 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 <b>Commerce</b> 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 <b>Computer Science or Mathematics</b> 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 <b>Commerce</b> as a subject under the academic or vocational stream at the Higher Secondary level.

# 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,	

## **PROGRAM OUTCOMES (POs)**

**By the end of the programme, our graduates will**

**PO1: DISCIPLINARY KNOWLEDGE:** Graduates will demonstrate comprehensive knowledge and understanding of accounting, finance, economics, business law, marketing, and management principles.

**PO2: COMMUNICATION SKILLS:** Graduates will effectively communicate business-related information and ideas through written reports, presentations, and digital communication platforms.

**PO3: CRITICAL THINKING:** Graduates will analyze business situations and problems critically, evaluating evidence, arguments, and differing perspectives to form sound judgments and solutions.

**PO4: PROBLEM SOLVING:** Graduates will apply theoretical knowledge and practical skills to identify, analyze, and resolve business issues and challenges in real-world scenarios.

**PO5: ANALYTICAL REASONING:** Graduates will utilize quantitative and qualitative analytical techniques to assess business data, interpret financial statements, and make informed business decisions.

**PO6: RESEARCH-RELATED SKILLS:** Graduates can conduct business research using appropriate methodologies, tools, and statistical techniques, interpreting results to provide actionable insights.

**PO7: COOPERATION/TEAM WORK:** Graduates will work collaboratively in teams, demonstrating the ability to manage interpersonal dynamics and leverage collective expertise to achieve business objectives.

**PO8: SCIENTIFIC REASONING:** Graduates will apply logical reasoning and scientific methods to understand business phenomena, develop hypotheses, and draw evidence-based conclusions.

**PO9: REFLECTIVE THINKING:** Graduates can gain personal learning experiences and business practices to continuously improve and adapt to new challenges and environments.

**PO10: INFORMATION/DIGITAL LITERACY:** Graduates can proficiently use digital tools and platforms to gather, evaluate, and utilize business information, maintaining awareness of digital security and ethical considerations.

**PO11: SELF-DIRECTED LEARNING:** Graduates can take initiative in self-learning, setting personal goals, and seeking opportunities for professional development and skill enhancement.

**PO12: MULTICULTURAL COMPETENCE:** Graduates will understand and respect cultural diversity in the business environment, effectively engaging and communicating with stakeholders from various backgrounds.

**PO13: MORAL AND ETHICAL AWARENESS/REASONING:** Graduates will recognize and address ethical issues in business practices, applying ethical principles and corporate social responsibility to decision-making processes.

**PO14: LEADERSHIP READINESS/QUALITIES:** Graduates will exhibit leadership potential by demonstrating skills such as strategic thinking, decision-making, motivating teams, and managing projects effectively.

**PO15: LIFELONG LEARNING:** Graduates will embrace the concept of lifelong learning, staying updated with the latest trends, technologies, and practices in the business world to maintain professional relevance.

**PROGRAM SPECIFIC OUTCOMES (PSO)**

**PSO1 –** Apply fundamental accounting and financial management concepts using computer applications to solve business problems efficiently.

**PSO2 -** Develop and implement software solutions for business operations, leveraging programming skills and knowledge of database management systems.

**PROGRAM EDUCATIONAL OUTCOMES (PEO)**

**PEO1:** Graduates will demonstrate a comprehensive understanding of commerce principles, including accounting, finance, and marketing, while effectively utilizing computer applications and technology to enhance business operations and decision-making.

**PEO 2:** Graduates will be able to communicate business concepts and data proficiently through various digital platforms and collaborate effectively in diverse teams, leveraging technology to achieve common business objectives.

**PEO 3:** Graduates will apply quantitative and qualitative analytical techniques using computer software to assess business situations, interpret financial data, and propose innovative solutions to real-world business challenges.

**MAPPING OF PEOs AND POs**

POs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PO13	PO14	PO15
PEO1	X		X												
PEO2				X	X	X	X	X	X						
PEO3		X					X					X		X	

**DEPARTMENT OF COMMERCE WITH COMPUTER APPLICATIONS**  
**FACULTY OF ARTS, SCIENCE, COMMERCE AND MANAGEMENT**  
**UG PROGRAM (CBCS) – B.Com. Computer Applications**  
**(2025 – 2026 Batch Onwards)**

Course Code	Name of the course	Category	Outcomes		Instruction hours/week			Credits	Maximum Marks			Page No
									CIA	ESE	Total	
			PO	PSO	L	T	P		40	60	100	

**SEMESTER I**

25LTU101G/ 25LHU101G/ 25LMU101G/ 25LSU101G/ 25LFU101G	Language: Tamil- I/ Hindi - I/ Malayalam - I/ Sanskrit - I/ French - I	AEC1	1,2,3	-	4	-	-	3	40	60	100	1
25ENU101G	English I	MDC1	2,3, 7,12	-	3	-	-	3	40	60	100	12
25CMU101G	Financial Accounting	Major 1	1,2 3,7	1,2	7	1	-	5	40	60	100	14
25MAU102G	Business Mathematics and Statistics	Minor 1	3,4,5	-	6	1	-	4	40	60	100	16
25CMU111G	Computer Application in Business – Practical	SEC1	1,3, 4,5, 6,7,9,10,11, 14,15	2	-	-	6	3	40	60	100	18
25VAC101G	Yoga for Youth Empowerment	VAC1	2,3, 4,5, 7,8, ,11,13,14,15	2	2	-	-	2	100	-	100	21
<b>SEMESTER TOTAL</b>					<b>22</b>	<b>2</b>	<b>6</b>	<b>20</b>	<b>300</b>	<b>300</b>	<b>600</b>	

**SEMESTER II**

25LTU201G/ 25LHU201G/ 25LMU201G/ 25LSU201G/ 25LFU201G	Language: Tamil-II/ Hindi - II/ Malayalam - II/ Sanskrit - II/ French - II	AEC2	1,2,3	-	4	-	-	3	40	60	100	23
25ENU201G	English II	MDC2	2,3,9	-	3	-	-	3	40	60	100	34
25CMU201G	Advanced Financial Accounting	Major 2	1,3,4,5,6,7,8, 9, 13	2	6	1	-	5	40	60	100	36
25CCU202G	Web Designing	Minor 2	1,3,5,9, 10,11,12	1,2	4	-	-	2	40	60	100	38
25CMU211G	Computerized Accounting System – Practical	SEC2	1,2,3,4,5,6, 9, 10,11,15	1,2	-	-	6	3	40	60	100	40
25CCU212G	Web Designing - Practical	Minor 3	1,3,5, 9,15	1,2			4	2	40	60	100	42
25VAC201G	Environmental Studies	VAC2	1,8,9,11, 12,13,15	1,2	2	-	-	2	100	00	100	45
<b>SEMESTER TOTAL</b>					<b>19</b>	<b>1</b>	<b>10</b>	<b>20</b>	<b>340</b>	<b>360</b>	<b>700</b>	

SEMESTER III												
25LTU301G/ 25LHU301G/ 25LMU301G/ 25LSU301G/ 25LFU301G	Language: Tamil- III/ Hindi - III/ Malayalam - III/ Sanskrit - III/ French - III	AEC3	1,2,3	-	4	-	-	3	40	60	100	47
25ENU301G	English III	MDC3	1,2,3,4	-	3	-	-	3	40	60	100	57
25CMU301G	Corporate Accounting	Major 3	1,3,4,5,6,7,8, 9,10,14,15	1,2	5	1	-	5	40	60	100	59
25CCU302G	MY SQL	Major 4	1,5,11,15	1,2	5	-	-	3	40	60	100	61
25CMU303G	Financial Reporting - I	Minor 4	1,2,3, 4,5,6	1,2	5	1	-	4	40	60	100	63
25CCU311G	MY SQL - Practical	Major 5	1,3,4,15	1,2	-	-	4	2	40	60	100	65
25VAC301G	Community Engagement and Social Responsibility	VAC3	6,11,12, 13	2	2	-	-	2	100	-	100	70
25CCU391	Internship I	SI 1	1,3,4,5,7, 11,12,13, 15	1,2	-	-	-	2	100	-	100	72
<b>SEMESTER TOTAL</b>					<b>24</b>	<b>2</b>	<b>4</b>	<b>24</b>	<b>440</b>	<b>360</b>	<b>800</b>	
SEMESTER IV												
25LTU401G/ 25LHU401G/ 25LMU401G/ 25LSU401G/ 25LFU401G	Language: Tamil -IV / Hindi - IV/ Malayalam - IV/ Sanskrit - IV/ French - IV	AEC4	1,2,3	-	4	-	-	3	40	60	100	73
25ENU401G	English IV	SEC4	1,2,4	-	3	-	-	3	40	60	100	83
25CCU401G	JAVA	Major 6	1,3,9, 10,15	1,2	4	-	-	3	40	60	100	85
25CCU402G	Income Tax Law and Practice	Major 7	1,3,4, 5,10,11, 13,15	1,2	6	1	-	4	40	60	100	87
25CMU403G	Financial Reporting - II	Minor 5	1,3,4, 5,10	1,2	5	-	-	4	40	60	100	89
25CCU411G	JAVA - Practical	Major 8	1,2,5, 6,8	2	-	-	6	3	40	60	100	91
25VAC401BG	Cyber Security and Universal Human Values	VAC4	3,4,5, 7,12,15	1,2	1	-	-	1	100	-	100	93
<b>SEMESTER TOTAL</b>					<b>23</b>	<b>1</b>	<b>6</b>	<b>21</b>	<b>340</b>	<b>360</b>	<b>700</b>	

SEMESTER V												
25CMU501AG	Cost Accounting	Major 9	1,3,4, 5,10,11, 13,15	1,2	7	1	-	5	40	60	100	95
25CCU502AG	Investment Management	Major 10	1,2,3, 4,5,6, 14,15	1,2	6	-	-	4	40	60	100	97
25CCU502BG	Financial Markets and Services		1,5,6, 9,13,15	1,2								99
25CCU503	Angular JS	Major 11	1,3,5, 9,10,15	1,2	5	-	-	3	40	60	100	101
25CMU504G	Introduction to Capital Market	Minor 6	1,3,4, 5,6,8, 10,15	1,2	5	-	-	4	40	60	100	103
25CCU511	Angular JS - Practical	Major 12	1,3,4, 8,15	1,2	-	-	6	3	40	60	100	105
25CCU591	Internship II	SI 2	1,2,3, 4,5,7, 11,12, 13,15	1,2	-	-	-	2	100	-	100	107
<b>SEMESTER TOTAL</b>					<b>23</b>	<b>1</b>	<b>6</b>	<b>21</b>	<b>300</b>	<b>300</b>	<b>600</b>	
SEMESTER VI												
25CMU601G	Management Accounting	Major 13	1,3,4, 5,6,7, 9,10,15	1,2	6	1	-	5	40	60	100	108
25CCU602AG	Entrepreneurship Development	Major 14	1-11, 13,14,15	1,2	4	-	-	3	40	60	100	110
25CCU602BG	Artificial Intelligence		1,3,4, 6,9,10, 15	1,2								112
25CMU603G	Investment Banking Operations	Minor 7	1-7,9, 10,11,14	1,2	5	-	-	4	40	60	100	114
25CCU611AG	Entrepreneurship Development - Practical	Major 15	1,3,4, 8,15	1,2	-	-	6	3	40	60	100	117
25CCU611BG	Artificial Intelligence - Practical		1,3,4, 8,15	1,2								119
25CCU691	Project	Major 16	1-6, 8- 11,14,15	1,2	-	-	8	6	40	60	100	121
25ECU601G	ECA/NCC/NSS/Sports/General Interest/ etc,								100	-		
<b>SEMESTER TOTAL</b>					<b>15</b>	<b>1</b>	<b>14</b>	<b>21</b>	<b>300</b>	<b>300</b>	<b>600</b>	
<b>3<sup>rd</sup> Year Total</b>								<b>127</b>	<b>2020</b>	<b>1980</b>	<b>4000</b>	
SEMESTER VII												
25CMU701G	Financial Derivatives	Major 17	1,3,4, 5,9,12	1,2	6	-	-	5	40	60	100	123
25CMU702G	Research Methodology	Major 18	1,2,3,4,6, 11, 15	1,2	6	-	-	4	40	60	100	125

25CMU703G	Business Environment	Major 19	1,2,3, 4,6,10, 12,15	1,2	6	-	-	4	40	60	100	127
25CMU704G	Managerial Economics	Minor 8	1,2,3,5,6, 7,11,13, 14, 15	1,2	6	-	-	4	40	60	100	129
25CMU711G	SPSS – Practical	Major 20	1,2,3,4,5 ,6,9,10	1,2	-	-	6	3	40	60	100	131
<b>SEMESTER TOTAL</b>					<b>24</b>	<b>-</b>	<b>6</b>	<b>20</b>	<b>200</b>	<b>300</b>	<b>500</b>	

<b>SEMESTER VIII A (Honours)</b>												
25CMU801AG	Digital Banking	Major 21	1,3,4, 5,6,8, 9,15	1,2	6	-	-	4	40	60	100	133
25CMU802G	Corporate Finance	Major 22	3,7,12, 13,14	1,2	6	-	-	4	40	60	100	135
25CMU803G	Treasury Management	Major 23	1,3,4, 11,15	1,2	6	-	-	4	40	60	100	137
25CMU804G	Insurance Risk Management	Major 24	1,3,4,5, 7,13,14, 15	1,2	6	-	-	4	40	60	100	139
25CMU805G	Applied E-Commerce	Minor 9	1,3,4,5, 6,8,10, 15	1,2	6	-	-	4	40	60	100	141
<b>SEMESTER TOTAL</b>					<b>30</b>	<b>0</b>	<b>00</b>	<b>20</b>	<b>200</b>	<b>300</b>	<b>500</b>	
<b>4<sup>th</sup> Year Total</b>								<b>167</b>	<b>2420</b>	<b>2580</b>	<b>5000</b>	

<b>SEMESTER VIII B (Honours with Research)</b>												
25CMU801AG	Digital Banking	Major 21	1,3,4, 5,6,8, 9,15	1,2	6	-	-	4	40	60	100	133
25CMU805G	Applied E-Commerce	Minor 9	1,3,4,5,6,8, 10,15	1,2	6	-	-	4	40	60	100	141
25CCU891	Research Project	RP	1,3,4,5,7,13, 14,15	1,2	-	-	18	12	120	180	300	143
<b>SEMESTER TOTAL</b>					<b>12</b>	<b>-</b>	<b>18</b>	<b>20</b>	<b>200</b>	<b>300</b>	<b>500</b>	
<b>4<sup>th</sup> Year Total</b>								<b>167</b>	<b>2420</b>	<b>2580</b>	<b>5000</b>	

<b>Other courses to be undergone by the students</b>												
I/II/III/IV/V	MOOC				4							
<b>TOTAL (Upto Semester VI)</b>									<b>127+4 = 131 Credits</b>			
<b>TOTAL (Upto Semester VIII)</b>									<b>171 Credits</b>			
Minimum 127 + 4 = 131 credits to earn the degree (for III Years)												
Minimum 171 credits to earn the degree (for IV Years)												

SEC:Skill Enhancement Courses;AEC:Ability Enhancement Courses;MDC-Multidisciplinary Courses; VAC-Value added courses ; MA- Major courses; MI – Minor Courses; SI- Summer Internship, RP-Project

**Credits Split-up – 3-Year B.Com. CA Programme**

<b>S.No.</b>	<b>Course Criteria</b>	<b>Number of Courses</b>	<b>Total No. of Credits</b>
1	Ability Enhancement Courses	4	12
2	Major Courses	16	62
3	Minor Courses	7	24
4	Multidisciplinary Courses	3	9
5	Skill Enhancement Courses	3	9
6	Internship	2	4
7	Value Added Courses	4	7
<b>Total</b>		<b>39</b>	<b>127</b>

**Credits Split-up for 4year B.Com.CA Programme–“A”**

<b>S.No.</b>	<b>Course Criteria</b>	<b>Number of Courses</b>	<b>Total No. of Credits</b>
1	Ability Enhancement Courses	4	12
2	Major Courses	24	94
3	Minor Courses	9	32
4	Multidisciplinary Courses	3	9
5	Skill Enhancement Courses	3	9
6	Internship	2	4
7	Value Added Courses	4	7
<b>Total</b>		<b>49</b>	<b>167</b>

**Credits Split-up for 4year B.Com.CA Programme–“B”**

<b>S.No.</b>	<b>Course Criteria</b>	<b>Number of Courses</b>	<b>Total No. of Credits</b>
1	Ability Enhancement Courses	4	12
2	Major Courses	21	82
3	Minor Courses	9	32
4	Multidisciplinary Courses	3	9
5	Skill Enhancement Courses	3	9
6	Internship	2	4
7	Value Added Courses	4	7
8	Research Project	1	12
<b>Total</b>		<b>47</b>	<b>167</b>

### Credit Split-up: B.Com CA

Semester	AEC	Major	Minor	MDC	SEC	VAC	Intern	Research Project	Total Credits
1	3	5	4	3	3	2	-	-	20
2	3	5	4	3	3	2	-	-	20
3	3	10	4	3	-	2	2	-	24
4	3	10	4	-	3	1	-	-	21
5	-	15	4	-	-	-	2	-	21
6	-	17	4	-	-	-	-	-	21
<b>3<sup>rd</sup> Year Total</b>	<b>12</b>	<b>62</b>	<b>24</b>	<b>9</b>	<b>9</b>	<b>4</b>	<b>4</b>	<b>0</b>	<b>127</b>
7	-	16	4	-	-	-	-	-	20
8A	-	16	4	-	-	-	-	-	20
<b>4<sup>th</sup> Year Total</b>	<b>12</b>	<b>94</b>	<b>32</b>	<b>9</b>	<b>9</b>	<b>4</b>	<b>4</b>	<b>0</b>	<b>167</b>
8B	-	4	4	-	-	-	-	12	20
<b>4<sup>th</sup> Year Total</b>	<b>12</b>	<b>82</b>	<b>32</b>	<b>9</b>	<b>9</b>	<b>4</b>	<b>4</b>	<b>12</b>	<b>167</b>

### Courses Split Up: B.Com CA

Semester	AEC	Major course	Minor course	MDC	SEC	VAC	Intern	Project	Total courses	T	P	Int/skill/Pro
1.	1	1	1	1	1	1	-	-	6	5	1	-
2.	1	1	2	1	1	1	-	-	7	5	2	-
3.	1	3	1	1	-	1	1	-	8	6	1	1
4.	1	3	1	-	1	1	-	-	7	6	1	-
5.	-	4	1	-	-	-	1	-	7	6	1	-
6.	-	4	1	-	-	-	-	-	6	5	1	-
<b>3<sup>rd</sup> year Total</b>	<b>4</b>	<b>16</b>	<b>7</b>	<b>3</b>	<b>3</b>	<b>4</b>	<b>2</b>	<b>-</b>	<b>39</b>	<b>31</b>	<b>7</b>	<b>1</b>
7.	-	4	1	-	-	-	-	-	5	4	1	-
8. A	-	4	1	-	-	-	-	-	5	5	-	-
<b>4<sup>th</sup> year total</b>	<b>4</b>	<b>24</b>	<b>9</b>	<b>3</b>	<b>3</b>	<b>4</b>	<b>2</b>	<b>-</b>	<b>49</b>	<b>40</b>	<b>8</b>	<b>1</b>
8B	-	1	1	-	-	-	-	1	3	2	-	1
<b>4<sup>th</sup> year total</b>	<b>4</b>	<b>21</b>	<b>9</b>	<b>3</b>	<b>3</b>	<b>4</b>	<b>2</b>	<b>1</b>	<b>47</b>	<b>37</b>	<b>8</b>	<b>2</b>

<b>ABILITY ENHANCEMENT COURSE</b>		
Semester	Course Code	Name of the Course
I	25LTU101G/25LHU101G/25LMU101G/25LSU101G/25LFU101G	Language:(Tamil- I/ Hindi - I/ Malayalam - I/ Sanskrit - I/ French - I)
II	25LTU201G/25LHU201G/25LMU201G/25LSU201G/25LFU201G	Language:(Tamil-II/ Hindi - II/ Malayalam - II/ Sanskrit - II/ French - II)
III	25LTU301G/25LHU301G/25LMU301G/25LSU301G/25LFU301G	Language:(Tamil- III/ Hindi - III/ Malayalam - III/ Sanskrit - III/ French - III)
IV	25LTU401G/25LHU401G/25LMU401G/25LSU401G/25LFU401G	Language:(Tamil -IV/ Hindi - IV/ Malayalam - IV/ Sanskrit - IV/ French - IV)

<b>MAJOR COURSE</b>		
Semester	Course Code	Name of the Course
I	25CMU101G	Financial Accounting
II	25CMU201G	Advanced Financial Accounting
III	25CMU301G	Corporate Accounting
III	25CCU302G	MY SQL
III	25CCU311G	MY SQL - Practical
IV	25CCU401G	JAVA
IV	25CCU402G	Income Tax Law and Practice
IV	25CCU411G	JAVA - Practical
V	25CMU501G	Cost Accounting
V	25CCU502AG	Investment Management
V	25CCU502BG	Financial Markets and Services
V	25CCU503	Angular JS
V	25CCU511	Angular JS - Practical
VI	25CMU601G	Management Accounting
VI	25CCU602AG	Entrepreneurship Development
VI	25CCU602BG	Artificial Intelligence
VI	25CCU611AG	Entrepreneurship Development - Practical
VI	25CCU611BG	Artificial Intelligence -Practical
VI	25CCU691	Project
VII	25CMU701G	Financial Derivatives
VII	25CMU702G	Research Methodology
VII	25CMU703G	Business Environment
VII	25CMU711G	SPSS – Practical
VIII	25CMU801AG	Digital Banking
VIII	25CMU802G	Corporate Finance
VIII	25CMU803G	Treasury Management
VIII	25CMU804G	Insurance Risk Management

<b>MINOR COURSE</b>		
Semester	Course Code	Name of the Course
I	25MAU102G	Business Mathematics and Statistics
II	25CCU202G	Web Designing
II	25CCU212G	Web Designing - Practical
III	25CMU303G	Financial Reporting - I
IV	25CMU403G	Financial Reporting - II
V	25CMU504G	Introduction to Capital Market
VI	25CMU603G	Investment Banking Operations
VII	25CMU704G	Managerial Economics
VIII	25CMU805G	Applied E-Commerce

<b>SKILL ENHANCEMENT COURSE</b>		
Semester	Course Code	Name of the Course
I	25CMU111G	Computer Application in Business – Practical
II	25CMU211G	Computerized Accounting System – Practical
IV	25ENU401G	English IV

<b>DISCIPLINE SPECIFIC ELECTIVE COURSE</b>		
Semester	Course Code	Name of the Course
V	25CCU502AG	Investment Management
V	25CCU502BG	Financial Markets and Services
VI	25CCU602AG	Entrepreneurship Development
VI	25CCU602BG	Artificial Intelligence

<b>VALUE ADDED COURSE</b>		
Semester	Course Code	Name of the Course
I	25VAC101G	Yoga for Youth Empowerment
II	25VAC201G	Environmental Studies
III	25VAC301G	Community Engagement and Social Responsibility
IV	25VAC401BG	Cyber Security and Universal Human Values

<b>MULTIDISCIPLINARY COURSE</b>		
Semester	Course Code	Name of the Course
I	25ENU101G	English I
II	25ENU201G	English II
III	25ENU301G	English III

**பாடத்திட்டப் பொதுநோக்கம்**

- கற்றல் வழி சிந்தனைத் திறனையும், கருத்து வெளிப்பாட்டுத் திறனையும், மேம்படுத்துதல்.
- அரசுத் தேர்வுகளுக்கு மாணவர்களை ஆயத்தமாக்குதல்; திறனாய்வு நோக்கை மேம்படுத்துதல்.
- இலக்கியங்களின் வழி மனித வாழ்வியலை உணர்த்துதல்.
- இன்புறுத்தல் மற்றும் அறிவுறுத்தல் நிலைகளில் இலக்கியங்களின் பங்களிப்பை உணர்த்துதல்.
- இளைய தலைமுறையினருக்கு அற உணர்வு மற்றும் வாழ்வியல் மதிப்புகளை அறிவுறுத்துதல்.

**பாடத்திட்டப் பயன்விளைவு**

- இந்தியக் குடியரிமைப்பணி முதலான போட்டித் தேர்வுகளில் இடம்பெறுகின்ற, 'தமிழ் இலக்கிய வரலாறு' குறித்த முழுமையான அறிமுகத்தை அடைதல்.
- தொல்லியல், கல்வெட்டியல் மற்றும் ஓலைச்சுவடியியல் சார்ந்த ஆவணத் தேடலுக்குரிய ஆய்வு மனப்பான்மையுடன், இலக்கியங்களை அணுகுதல்.
- 'அறிவியல் தமிழ்'; 'இணையத் தமிழ்' போன்ற தமிழின் வளர்ச்சித் துறைகள் சார்ந்த திறன் மேம்பாடு பெற்றிருத்தல்.
- வேலைவாய்ப்புக்குரிய வகையில் படைப்பாக்கத்திறன் முதலான மொழி ஆளுமை பெற்றிருத்தல் ;
- சமூக வாழ்வியல் மதிப்புகளைப் பேணுவதற்குக் கருவியாக உள்ள இலக்கியங்களை நாடுகின்ற மனப்பான்மை வளர்ச்சி.

**இலக்கிய நெறிகள்**

**அலகு - I**

**10 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 வாழ்த்துப் பாடல் - "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, புறத்திணைகள்

அலகு- 2

08 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),

சினம் இன்மை- “மதித்து இறப்பாரும்” முதல் “இளையான்” வரை (1 முதல் 5 பாடல்கள்), சுற்றம் தழால் - “வயாவும்” முதல் இன்னர் வரை” ( 1 முதல் 5 பாடல்கள்).

காப்பியம்

- மணிமேகலை - பாத்திரம் பெற்ற காதை -

“போதிநீழல்” முதல் “நல்அறம்கண்டனை” வரை (73-98)

இலக்கணம்

- முதலெழுத்து - சார்பெழுத்து - விளக்கம்

அலகு- 3

10 மணிநேரம்

தமிழ் இலக்கிய வரலாறு

- அற இலக்கியங்கள் அறிமுகம்

சங்க இலக்கியம்

- ஐங்குறுநூறு - வேட்கைப்பத்து - “வாழி ஆதன் வாழி அவினி” 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 (18) - 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), பைய பையப் (6053), அந்நெறி (6058), குகனொடும் (6507), கூவி இன்று (7004), ஆள் ஐயா! (7271), கார்நின்ற (10043)

சிற்றிலக்கியம்

- கலிங்கத்துப்பரணி - போர்க்களக்காட்சிகள் -  
“தேவாசுரம் (472), உடலின்மேல் (475), நெடுங்குதிரை (476), விருந்தினரும் (477), தரைமகள் (483), பொருதடக்கை (484), வெயில்தாரை (488)”.

இலக்கணம்

- சொல் - பெயர் - வினை, இடை, உரிச்சொல் - விளக்கமும் பயிற்சியும்.

இலக்கணம்

- மூவிடம் மற்றும் பெயர் விகுதிகள்.

அலகு- 4

10 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 - “சுடர்தொடிக் கேளாய்” (51)

அற இலக்கியம்

- ஆசாரக்கோவை - 5 பாடல்கள் (நன்றியறிதல் (1), பிறப்பு (2), தக்கணை (3), வைகறை (4), எச்சிலார் (5)).

காப்பியம்

- தேம்பாவணி - நகர்வளம் 15 பாடல்கள் (மெய்வழி (97) முதல் - ஈரும் வாள் (106) வரை).

சிற்றிலக்கியம்

- தமிழ்விடு தூது - “சீர்கொண்ட” முதல் - “மஞ்சள்” வரை (1 முதல் 25 கண்ணிகள்)

இலக்கணம்

- தொடர் வகை - வினா விடை வகைகள்

அலகு - 5

10 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 - இறப்பச்

சிறியவர் (51).

காப்பியம்

- சீறாப்புராணம் - மானுக்குப் பிணை நின்ற படலம் - அரியினஞ் (2), குழை குழைத் (70), கொடியிடம் (12), நிறைவளஞ் (16), வல்லவ (17), என்னுயி (18), தனியெனென் (20), வலையிடத் (25), என வினவ (29), வேட்டுவனுரைப்ப (48) என்னும் (10 பாடல்கள்).

சிறுநிலக்கியம்

- முத்துக்குமாரசாமி பிள்ளைத்தமிழ் - காப்புப் பருவம் - பூமேவு கற்பகப் பொங்கரிற், (முதல் பாடல்), செங்கீரைப் பருவம் - இருக்கோல் இடும்பரிபுரக் கோல, (முதல் பாடல்), தாலப்பருவம்-பில்கும் பசுந்தேன் (முதல் பாடல்)

இலக்கணம்

- வேற்றுமை உருபுகள்.

மொத்த மணிநேரம் - 48

TEXT BOOK T1 - கற்பகச் சோலை - தமிழ்ப்பாட நூல், இலக்கிய நெறிகள், தமிழ்த்துறை வெளியீடு, கற்பகம் உயர்கல்விக்கழகம், கோயம்புத்தூர் - 21.

பார்வை நூல்கள்

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.

இணையதளம்

W1-[www.tvu.org.in](http://www.tvu.org.in)

W2- [www.maduraitamilproject.com](http://www.maduraitamilproject.com)

இதழ்கள்

J1- International Research Journal of Indian Literature, irjil.in

J2 - International Tamil Research Journal, iorpress.in

CO, PO, PSO Mapping

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PO13	PO14	PO15	PSO1	PSO2
CO1	3	3	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CO2	3	3	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CO3	3	3	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CO4	3	2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CO5	2	2	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Average	2.8	2.6	2.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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

Instruction Hours / Week: L:4 T:0 P:0

Marks: Internal:40 External:60 Total: 100  
End Semester Exam: 3Hours

**PREREQUISITE:**

Not Required

**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) :**

- Develop an interest in the appreciation of literature.
- Discuss and respond to content of a reading passage.
- Learning the literacy knowledge of Hindi specially reading and writing .
- Learning the literary knowledge specially reading and understanding of Hindi short Stories
- Learning the history of Hindi literature.

**UNIT –I** a) Prose - Bharathiya Sangrah **9 HOURS**

- b) Non-Detailed - Naya Mehman
- c) Nibandh - Anushasan
- d) Grammar - Bhasha Aur Vyakaran

**UNIT -II** a) Prose - Pahtha Pani Nirmal **9 HOURS**

- b) Non-Detailed - Eakankki ki Visheshatha
- c) Nibandh - Onam
- d) Grammar – Varna Vichar , Sangya

**UNIT -III** a) Prose – Rashtriya Pitha Mahathma **10 HOURS**

- b) Non-Detailed – Maha Bharat ki Eak Sanjh
- c) Nibandh – Eakatha Ka Mahathva
- d) Grammar – Sarvanam , Gender

**UNIT-IV** a) Prose – Gapshap **10 HOURS**

- b) Non-Detailed – Yahang Sona Mana Hai
- c) Nibandh – Ganga Pradhushan Ki Samasya
- d) Grammar – Number , Karak , Visheshan

**UNIT-V** a) Prose – Nindha Ras **10 HOURS**

- b) Non – Detailed Eakanki ki Katha Vasthu
- c) Nibandh – Paropkar
- d) Grammar - Kriya , Kriya Visheshan

**TOTAL: 48 HOURS**

## REFERENCE BOOKS:

1. Prose :Nuthan Gathya Sangrah (lesson-1,5,6,8,9). Editor : Jayaprakash  
Publisher : Sumithra Prakasan, 16|5.Hasting Road, Illahabad.211001.
2. Non-detailed: Naveen Ekhanke Sangrah Editor: Dr.  
Srimathi Malathi Tiwari Publisher: Sumithra Prakashan, 204.Leela  
Apartment, Ashok Nagar, Illahabad-211001.
3. Nibandh : Subod Hindi Nibandh Editor : Dr. Braj Kishor Prasad Sing  
Publisher: Manoj Publication 1583-84 Dariba Kala, Chandni Chouk, Delhi –  
110006.
4. Grammar: Sugam Hindi Vyakaran Writer: Pro. Vamshidhar & Dharmapal  
Publication: Shiksha Bharathi, Kashmir Gat, Delhi - 110006

## CO, PO, PSO Mapping

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PO14	PO14	PO15	PSO2	PSO1
CO1	3	3	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CO2	3	3	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CO3	2	2	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CO4	3	2	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CO5	3	2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Average	2.8	2.4	2.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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

Instruction Hours / Week: L:4 T:0 P:0

Marks: Internal:40 External:60 Total: 100  
End Semester Exam: 3Hours

**PREREQUISITE:**

Not Required

**COURSE OBJECTIVES:(CO)**

- Improves grammatical knowledge
- Will continue to read and learn about articles and think about them
- It is possible to read and understand short stories and understand the thoughts and life of the people of this state.

**COURSE OUTCOMES: ( COs )**

- Understand the text styles and grammatical elements
- Discuss the content of a reading passage
- Develop an interest in the appreciation of short stories
- Comprehend the grammatical structures and sentence making
- Understand the language and developing English to Malayalam translation skill

PART I MALAYALAM PAPER I		
Unit No.		HOURS
I	Novel – Pathummayude Aadu - Vaikam Muhammed Basheer	10
II	Novel- - Pathummayude Aadu - Vaikam Muhammed Basheer	10
III	Short Story - Ente Priyappeta Kadhakal – Akbar Kakkattil)	09
IV	Short Story - Ente Priyappeta Kadhakal – Akbar Kakkattil)	10
V	Composition & Translation (English to Malayalam)	09
	<b>TOTAL</b>	<b>48</b>

**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)MalayalaSahithya Vimarsam,D.C.Books,Kottayam,Kerala

**CO, PO, PSO Mapping**

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PO13	PO14	PO15	PSO1	PSO2
CO1	3	3	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CO2	3	3	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CO3	3	3	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CO4	3	2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CO5	2	2	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Average	2.8	2.6	2.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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

**PREREQUISITE:**

Not Required

**COURSE OBJECTIVES(CO):**

- The fundamental objective of the curriculum is to impart effective science education at the undergraduate level, exposing them to recent trends and developments in the subject.
- Creating scientific temper is another major objective of this curriculum.
- Another major thrust given here is to develop an environmental concern in all activities of the students. 'Go green', the motto of the syllabus emphasizes the urgent need to conserve nature without destruction of natural resources.

**COURSE OUTCOMES(COs) :**

- Critical Thinking :Take informed actions after identifying the assumptions that frame students' thinking and actions.
- Problem Solving: Understand and solve problems of relevance to society to meet the specified needs using the knowledge, skills and attitudes acquired.
- Effective Communication: Speak, read, write and listen clearly in person and through electronic media in English and in one Indian language, and make meaning of the world by connecting people, ideas, books, media and technology.
- Effective Citizenship: Demonstrate empathetic social concern and equity centered national development.
- Environment and Sustainability: Understand the issues of environmental contexts and sustainable development.

**UNIT – I****10 HOURS**

Introduction to Poetry, Definition of Poetry

**UNIT – II****10 HOURS**

Five Maha Kavyas

**UNIT – III****10 HOURS**

Text Prescribed : Raghuvamsa (Canto – 1) First Ten Slokas

**UNIT – IV****09 HOURS**

Text Prescribed : Raghuvamsa (Canto – 1) Slokas Eleven to Thirty

**UNIT – V****09 HOURS**

Text Prescribed : Raghuvamsa (Canto – 1) Slokas Thirty One to Fifty

**TOTAL: 48 HOURS**

Grammar: Text prescribed :

Sanskrit Self Teacher

By Dr.V.Varadhachari

(Present tense and Declension of ending nouns (Masculine))

Texts Available at

1. Raghuvamasa (Canto - I), (2019). R.S. Vadhyar and Sons Palghat, Kerala.
2. Varadhachari,v.s, (2014). Sanskrit Self Teacher 32, Tank Bunk Road, Near Loyola College, Nungambakkam, Chennai - 600 034.

### CO, PO, PSO Mapping

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	2	3	3	-	-	-	-	-	-	-	-	-	-	-
CO2	3	3	2	-	-	-	-	-	-	-	-	-	-	-
CO3	2	2	3	-	-	-	-	-	-	-	-	-	-	-
CO4	3	3	2	-	-	-	-	-	-	-	-	-	-	-
CO5	3	2	3	-	-	-	-	-	-	-	-	-	-	-
<b>Average</b>	<b>2.6</b>	<b>2.6</b>	<b>2.8</b>	-	-	-	-	-	-	-	-	-	-	-

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

## PREREQUISITE:

Not Required

## COURSE OBJECTIVES (CO):

- 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 ):

Cos	Course Outcomes	Blooms Level
CO1	Retrieve fundamentals of French language to construct error free sentences.	Apply
CO2	Construct and maintain social relationships.	Analyze
CO3	Construct business letters, proposals and E-Mail communication	Apply
CO4	Adopt the skills of planning, structuring, and delivery techniques in group discussions and presentations.	Understand
CO5	Classify communication skills in business environment	Understand

### Unite – I

9 HOURS

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

### Unité - 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

### Unité - III

10 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

**Unité IV****10 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

**Unité V****10 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 négative
- Verbes - Le verbe Faire
- Lexique - L'aspect physique , Le caractère, Les prépositions de lieu , Les nombres à partir de 70
- Culture- Les frontières de la france,les villes connues en france.

**TOTAL: 48 HOURS****REFERENCE BOOKS:**

- Cocton Marie –Noëlle , Duplex Dorothée, Heu Elodie , Kasazian Emilie, Ripaud Delphine, Saison 1- Méthode de francais, Didier, paris.2015.
- Cocton Marie – Noëlle, Dupleix, Heu Elodie, Kasazian Emilie ,Ripaud Deldphin, Saison 1 – Cahier d’activites , Dider ,Paris , 2015
- Anne Akyüz,Bernadette Bazelle- Shahmael,JoëlleBonenfant, Marie- Françoise Gliemenn,Les exercices de grammaire,Hachette FLE, Paris,2005
- Christian Beaulieu, Je pratique, Exercices de grammaire A1, Dider,Paris,2015
- Nathalie BIE, philippe SANTINAN,Grammaire pour adolescents-250 exercices, CLE International , Paris , 2005

**WEBSITES :**

- [http:// enseigner.tv5 monde.com/](http://enseigner.tv5monde.com/)
- [bonjourdumonde.com /exercices/contenu/le – francais-du- tourisme.html](http://bonjourdumonde.com/exercices/contenu/le-francais-du-tourisme.html)
- <http://www.bonjurdefrance.com/>
- <https://www.lepointdufle.net/>

**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	-	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CO4	-	-	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CO5	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-
<b>Average</b>	-	<b>3</b>	<b>3</b>	-	-	-	<b>3</b>	-	-	-	-	<b>2</b>	-	-	-	-	-

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

**PREREQUISITE:**

Not required

**COURSE OBJECTIVES (CO):**

- 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 English 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	Use English grammar to create error-free sentences.	Apply
CO2	Build and maintain social relationships through effective communication.	Remember
CO3	Construct business letters, proposals and E-Mail communication	Remember
CO4	Plan and deliver group discussions and presentations.	Understand
CO5	Classify communication skills in business environment	Understand

**UNIT - I****8 HOURS****LISTENING:** Listening –Types of Listening**SPEAKING:** Basics of Pronunciation**READING:** Reading – Types of Reading**COMPOSITION WRITING:** Jumbled Sentences**LITERATURE:** Poem- Mending Wall- Robert Frost**GRAMMAR:** Parts of Speech**UNIT - II****7 HOURS****LISTENING:** Principles of Listening Skills**SPEAKING:** Self-Introduction**READING:** Reading Techniques**COMPOSITION WRITING:** Paragraph Writing**LITERATURE:** Prose- On Running After One's Hat- G. K. Chesterton**GRAMMAR:** Types of Sentences**UNIT - III****7 HOURS****LISTENING:** Barriers of Listening**SPEAKING:** Telephone Conversations**READING:** Reading Comprehension Passages**COMPOSITION WRITING:** Precis Writing**LITERATURE:** Short Story - The Bet - Anton Chekov**GRAMMAR:** Articles**UNIT - IV****7 HOURS****LISTENING:** Story Narrations**SPEAKING:** Group Discussion**READING:** Reading Reports and profiles

**COMPOSITION WRITING:** Letter Writing  
**LITERATURE:** One-act play- The Death Trap - H.H. Munro  
**GRAMMAR:** Tenses

**UNIT - V**

**7 HOURS**

**LISTENING:** Listening Strategies  
**SPEAKING:** Interview Skills  
**READING:** Tips for MOC- Anchoring  
**COMPOSITION WRITING:** Circular Writing and Summary Writing  
**LITERATURE:** Short story- The Snake Song by R K Narayan  
**GRAMMAR:** Subject Predicate, Framing Questions and Question Tags

**TOTAL: 36 HOURS**

**TEXT BOOK:**

Board of Editors, *Acrostic I* (2024). Karpagam Academy of Higher Education

**REFERENCE BOOKS:**

1. *Martin's, St* (2013). *Oxford Handbook of Writing: Handbook of Writing*. Cambridge University Press.
2. Julian Treasure, *Sound Business*, (2012). Oxford University Press
3. Hornby, A, S. (1975). *The Guide to patterns and usage in English*: oxford university Press.
4. Ellis, R. (1990). *Instructed second language acquisition*, Oxford: oxford university Press New York:Pergamon Press.

**WEB SITES:**

1. <https://www.poemhunter.com/>
2. <https://hearhandfield.com/on-running-after-ones-hat-gk-chesterton-1915/>
3. <https://www.eastoftheweb.com/short-stories/UBooks/Bet.shtml>
4. <https://mastanappa.blogspot.com/2018/09/the-death-trap-h-h-munro-saki.html>
5. <https://shorturl.at/ud8rp>

**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	-	-	-	-	-	-	3	-	-	-	-	-	-	-	-	-	-
CO3	-	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CO4	-	-	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CO5	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-
<b>Average</b>	-	<b>3</b>	<b>3</b>	-	-	-	<b>3</b>	-	-	-	-	<b>2</b>	-	-	-	-	-

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

**PREREQUISITE:**

- Familiarity with basic financial terms such as assets, liabilities, equity, revenue, expenses, Profit, and loss.

**COURSE OBJECTIVES (CO):**

- Students will master fundamental accounting principles, enabling them to accurately journalize transactions, maintain ledgers, and prepare trial balances effectively.
- Students will prepare final accounts, calculate depreciation, and manage hire purchase and instalment transactions, including defaults.
- Students will apply accounting principles to royalty accounting, value stock accurately, and prepare consolidated branch accounts.

**COURSE OUTCOMES (COs):**

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

COs	Course Outcomes	Blooms Level
CO1	Understanding of basic accounting principles and practices for journalizing, ledger maintenance, trial balance preparation and Proficiency in preparing final accounts.	Understand
CO2	Ability to calculating depreciation's impact on financial statements.	Apply
CO3	Ability in creating consolidated financial accounts and accounting for different branch kinds.	Apply
CO4	Ability to account for transactions in hire purchase and installment systems, including default scenarios.	Apply
CO5	Apply Journal Entries and Ledger Accounts in Royalty Accounting	Apply

**UNIT – I INTRODUCTION TO ACCOUNTING CONCEPTS**

**19 HOURS**

Accounting – Definition – Concepts and Conventions – An Overview of Accounting Standards – Ind As - Meaning- Uses and Importance – An Overview of IFRS - Final Accounts of a Sole Trader (ICAI Format)

**UNIT – II DEPRECIATION ACCOUNTING AND SINGLE ENTRY SYSTEM 19 HOURS**

Depreciation Accounting – Methods of Depreciation- Straight Line, Diminishing Balance and Annuity Method – Amortization of Intangible Assets. Single Entry system – Meaning and Salient Features – Statement of Affairs Method- Conversion Method.

**UNIT – III BRANCH ACCOUNTING**

**19 HOURS**

Branch Accounts- Dependent Branch-Stock and Debtors System (Excluding Foreign Branch) – Departmental Accounts –Inter-Departmental Transfer.

**UNIT – IV HIRE PURCHASE AND INSTALLMENT ACCOUNTING**

**19 HOURS**

Hire Purchase and Instalment- Hire Purchase Accounting – Default and Repossession- Instalment Accounting.

**UNIT – V ROYALTY ACCOUNTING****20 HOURS**

Royalty Accounting (Excluding Sub-Lease) – -Minimum Rent, Short working, Recoupment of short working, Methods of recoupment, Short working written off- Accounting treatment –Journal entries and ledger accounts in the books of Lessee and Landlord-Adjustment of minimum rent due to Strike and Lock out – AS 19.

**Note:** Distribution of Marks - 20% theory and 80% problem**TOTAL: 96 HOURS****TEXT BOOKS:**

1. S.P. Jain and K.L.Narang (2016) *Advanced Accountancy Principles of Accounting*, Kalyani Publishers, Ludhiana
2. S. N. Maheshwari, Suneel K Maheshwari (2018) *Financial Accounting*, 6<sup>th</sup> Edition, Vikas Publishing House, New Delhi
3. Dr. S N Maheshwari & Dr. Suneel K Maheshwari (2018), *Problems and Solutions in Advanced Accountancy* . 6<sup>th</sup> edition, Vikas Publishing House, New Delhi
4. T.S.Reddy, A.Murthy (2012) *Financial Accounting*, Margham Publication, Chennai

**REFERENCE BOOKS**

1. Shukla,M.C. Grewal T.S. Gupta. S.C. (2016), *Advanced Accounts*. Vol.-I., 19<sup>th</sup>Edition, S. Chand & Co., New Delhi.
2. Deepak Sehgal. (2016),*Financial Accounting*.1<sup>st</sup> edition, Vikas Publishing House, New Delhi
3. Dr.P C Tulsian & CA Bharat Tulsian (2016) *Financial Accounting*, 2<sup>nd</sup> Edition,Sultan Chand Publishing, New Delhi

**WEBSITE**

[https://swayam.gov.in/nd1\\_noc20\\_mg71/preview](https://swayam.gov.in/nd1_noc20_mg71/preview)

**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	1
CO2	3	-	-	3	-	-	-	-	-	2	-	-	-	-	2	1	1
CO3	3	-	-	3	-	-	-	-	-	2	-	-	-	-	-	1	1
CO4	3	2	2	-	-	-	2	-	-	-	-	2	2	-	-	1	1
CO5	3	2	-	3	-	-	-	-	-	-	-	-	-	-	-	1	1
<b>AVG</b>	<b>3</b>	<b>2</b>	<b>2</b>	<b>3</b>	-	-	<b>2</b>	-	-	<b>2</b>	-	<b>2</b>	<b>2</b>	-	<b>2</b>	<b>1</b>	<b>1</b>

**3-Strong; 2-Medium; 1-Low, ' - ' - No Correlation**

**PREREQUISITE:**

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

**COURSE OBJECTIVES (CO):**

- To understand and apply fundamental concepts of matrices, interest calculations, and differential calculus in business and economic contexts.
- To perform univariate and bivariate statistical analyses, including measures of central tendency, variation, correlation, and regression.
- To construct and analyze index numbers and time-series data, enabling practical applications in business and economic decision-making.

**COURSE OUTCOMES (COs):**

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

COs	Course Outcomes	Blooms Level
CO1	Utilize the basic concepts and types of matrices to perform matrix algebra.	Analyze
CO2	Apply differentiation rules to various functions and solve problems related to elasticity, cost, revenue, and profit.	Analyze
CO3	Solve statistical measures such as mean, median, mode, and partition values to data sets.	Analyze
CO4	Utilize the correlation or regression methods to find the relationship between two variables.	Analyze
CO5	Apply the methods to construct simple and weighted index numbers and perform trend analysis using time-series data.	Analyze

**UNIT I MATRICES AND BASIC MATHEMATICS OF FINANCE**

**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-Applications of Matrices to solution of simple business and economic problems. Rates of interest: Simple and compound interest.

**UNIT II DIFFERENTIAL CALCULUS**

**17 HOURS**

Mathematical functions and their types: linear, quadratic, polynomial-Concepts of limit and continuity of a function-Concepts of differentiation: Rules of differentiation – simple standard forms. Applications of differentiation: Elasticity of demand and supply- Maxima and Minima of functions (involving second or third order derivatives) relating to cost, revenue and profit.

**UNIT III UNI-VARIATE ANALYSIS****17 HOURS**

Measures of Central Tendency: Arithmetic mean, Geometric mean and Harmonic mean and its properties and applications - median - mode. Partition values - quartiles, deciles, and percentiles. Measures of Variation: Absolute and Relative- Range-Quartile Deviation-Mean Deviation-Standard Deviation-Coefficient of variation-Variance and its properties.

**UNIT IV BIVARIATE ANALYSIS****17 HOURS**

Simple Linear Correlation Analysis: Meaning and measurement - Karl Pearson's co-efficient and Spearman's rank correlation coefficient. Simple Linear Regression Analysis: Regression equations and estimation. Relationship between correlation and regression coefficients

**UNIT V TIME-BASED DATA: INDEX NUMBERS AND TIME-SERIES ANALYSIS****17 HOURS**

Meaning and uses of index numbers; Construction of index numbers: Aggregative and average of relatives – simple and weighted, Tests of adequacy of index numbers, Construction of consumer price indices. Components of time series; additive and multiplicative models; Trend analysis: Finding trend by moving average method and Fitting of linear trend line using principle of least squares.

**TOTAL: 84 HOURS****TEXT BOOKS:**

1. Sharma, J.K.(2019).*Business Statistics*, 5<sup>th</sup> Edition, Vikas Publishing House, New Delhi.
2. Navaneetham, P. A. (2019). *Business Mathematics and Statistics*, Jai Publishers, Trichy.

**REFERENCE BOOKS:**

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

**WEBSITES:**

1. <https://www.coursera.org/specializations/business-statistics-analysis>
2. [https://www.youtube.com/watch?v=TGo0\\_eIEFoA](https://www.youtube.com/watch?v=TGo0_eIEFoA)
3. <https://www.youtube.com/watch?v=6yQorRRp7CY>

**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	-	-	2	3	-	-	-	-	-	-	-	-	-	-	-	-	-
CO3	-	-	3	3	-	3	-	-	-	-	-	-	-	-	-	-	-
CO4	-	-	-	3	3	-	-	-	-	-	-	-	-	-	-	-	-
CO5	-	-	2	-	3	-	-	-	-	-	-	-	-	-	2	-	-
<b>Average</b>	-	-	<b>2.3</b>	<b>3</b>	<b>3</b>	<b>3</b>	-	-	-	-	-	-	-	-	<b>2</b>	-	-

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

**PREREQUISITE:**

- Computer Literacy, Microsoft Office, Word Processing, Spreadsheet Management, Basic Database.

**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.	Apply
CO2	Prepare datasheet and apply the built-in functions for analyzing the data to support decision making	Analyze
CO3	Utilize visual aids and tools to present the data	Apply
CO4	Design the presentations for the business meetings	Apply
CO5	Store, retrieve data and make decisions based on the information and employ Computer on real life business situations	Apply

**MS WORD**

**1. BASIC FUNCTIONS**

**5 HOURS**

Type Chairman's Speech / Auditors report/ Minutes/ agenda and perform the following operations Bold, Underline, Font Size, Font Style, Background Color, text Color, Line Spacing, Spell Check, Alignment, Header and Footer, inserting page numbers, Find and replace.

**2. PREPARE AN INVITATION FOR THE COLLEGE FUNCTION**

**5 HOURS**

Prepare an invitation for the College Function using Text boxes and Clip Arts

**3. PREPARE A CLASS TIME TABLE**

**5 HOURS**

Prepare a class time table and perform the following operations - Insert table, data entry, alignment of rows and columns, inserting and deleting and change of table format.

**4. PREPARE A SHAREHOLDERS' MEETING LETTER**

**5 HOURS**

Prepare a shareholder 'meeting letter (notice) for 10 members using mail merge operation.

**MS EXCEL**

**5. PREPARE A MARK LIST OF YOUR CLASS**

**5 HOURS**

Prepare a mark list of your class (minimum 5 subjects) and perform the following operations Data entry, total, average, result and ranking by using arithmetical, logical functions and sorting.

**6. PREPARE FINAL ACCOUNTS****5 HOURS**

Prepare final accounts (Trading Profit and Loss account and Balance Sheet) by using Mathematical formula.

**7. DRAW DIFFERENT TYPES OF CHARTS****5 HOURS**

Draw different types of charts (Line, Pie, Bar) to illustrate year wise performance of sale purchase, profit of a company by using chart wizard.

**MS POWERPOINT****8. DESIGN PRESENTATION SLIDES FOR A PRODUCT OF YOUR CHOICE 5 HOURS**

Design Presentation slides for a product of your choice. The slides must include name, brand name, type of product, characteristics, price, special offer etc. and Add voice if, possible to explain the features of the product. The presentation should work in manual mode.

**9. DESIGN PRESENTATION SLIDES FOR ORGANISATION DETAILS FOR FIVE LEVELS OF HIERARCHY 5 HOURS**

Design presentation slides for organization details for five levels of hierarchy of a company using organization chart.

**10. DESIGN SLIDES FOR THE HEADLINE NEWS OF A POPULAR TV CHANNEL.****5 HOURS**

The presentation should contain the following transactions – Top down, bottom up, Zoom in and Zoom out – The presentation should work in custom mode.

**11. DESIGN PRESENTATION SLIDES ABOUT AN ORGANIZATION****5 HOURS**

Design presentation slides about an organization and perform frame movement by inserting clip arts to illustrate running of an image automatically.

**12. DESIGN PRESENTATION SLIDES FOR THE SEMINAR****5 HOURS**

Design presentation slides for the seminar, lecture presentation using animation effect and perform the following operations: Creations of different slides, changing background color, font color, using word art.

**MS ACCESS****13. PREPARE A PAYROLL FOR EMPLOYEE DATABASE OF AN ORGANIZATION****6 HOURS**

Prepare a payroll for employee database of an organization with the following details. Employee id, employee name, date of birth, department, designation, date of appointment, basic pay, dearness allowance, House Rent allowance and other deductions if any. Perform queries for different categories

**14. CREATE MAILING LABELS FOR STUDENT DATABASE****6 HOURS**

Create mailing labels for student database which should include atleast three table, must have at least 2 fields with the following details: Roll no, name, course, year, college name, university, address, phone number

**TOTAL :72 HOURS**

## TEXT BOOKS:

1. Wayne L. Winston, (2017), Microsoft Excel 2016 - Data Analysis and Business Modeling, Prentice Hall India Learning Private Limited, New Delhi
2. Faith 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, 3<sup>rd</sup> Edition, Laxmi Publications, New Delhi.
2. John Walkenbach (2015), Microsoft Excel 2016 Bible: The Comprehensive Tutorial Resource, Wiley India, New Delhi.

## 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
CO2	3	-	3	3	-	-	1	-	-	-	1	-	-	-	-	1	1
CO3	3	-	-	-	-	2	-	-	-	3	2	-	-	-	-	-	-
CO4	3	-	-	2	2	-	-	-	-	-	3	-	-	-	-	-	-
CO5	3	-	3	3	2	1	-	-	1	-	3	-	-	2	3	1	1
Average	3	-	3	2.7	2	1.5	1.5	-	1	3	2	-	-	2	3	1	1

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

**PREREQUISITE:**

Not Required

**COURSE OBJECTIVES (CO):**

- Create awareness about Yoga and Physical Health.
- Providing value education to improve the student's character understanding greatness of life force and Mind.
- Know about five aspects of life and to develop good Qualities and eliminating bad ones.

**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	Understand
CO2	Study the concepts a Greatness of Life force and Mind	Understand
CO3	Learn the aspects of Personality Development – Sublimation	Understand
CO4	Practices Human Resource Development	Apply
CO5	Understand about the yoga, life and Law of Nature	Apply

**UNIT I YOGA AND PHYSICAL HEALTH**

**5 HOURS**

**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 Kapalabathi, Makarasana Part I, Makarasana Part II, Body Massage, Acupressure, Relaxation exercises Benefits Yogasanas 1: Pranamasana Hastha Uttanasana Pada Hasthasana – Aswa Sanjalana Asana ThuvipathaasvaSarjalana asana AstangaNamaskara - Bhujangasana Atha Muktha Savasana AswaSanjalanaAsara Pada Hasthasana-Hastha Uttanasana Pranamasana - Pranayama: Naddisudei-Clearance Practice-Benefits - Simplified Physical Exercise-Kayakalpa Practices - Meditation Practices.

**Philosophy of life:** Purpose of life Philosophy of life (Needs Protections Virtues Development of knowledge) Five Types of duties-Protection of the natural resources

**UNIT II GREATNESS OF LIFE FORCE AND MIND**

**5 HOURS**

Reasons for Diseases Natural reasons (Genetic/imprints, Planetary Position, Natural calamities and climatic changes) Unnatural reasons (Food habits, Thoughts, Deeds) Philosophy of Kaya Kalpa: Physical body-Sexual vital fluid-Life force- Bio-Magnetism-Mind Maintaining youthfulness: Postponing old age seven components - Importance of sexual vital fluid Transformation of food into Measure and method in five aspects of life-Controlling undue Passion. Kayakalpa practice: Aswini Mucra-Ojas breath-Benefits of Kaya Kapa.

**UNIT III PERSONALITY DEVELOPMENT – SUBLIMATION**

**5 HOURS**

Mental Frequencies: Beta, Alpha, Theta and Delta wave Agna Meditation explanation benefits. Shanti meditation: Shanthi Meditation explanation-benefits - Thuriya Meditation: Thuriya Meditation explanation-benefits - Benefits of Blessing Self blessing (Auto suggestion) Family blessing Blessing the others World blessing- Divine protection

Human Values: Set-cortio- Sell-confidence Honesty Contentment Humility Modesty To erance Adjustment- Sacrifice-Forgiveness Punty (Bocy, Dress, Enviornment) Physica purity- Mental purity-Spiritualpurity. Social Values: Nonviolence-Service Patriotism-Equality Respect for parents and elders care and protection Respect for teacher Punctuality-Time Management

**UNIT IV HUMAN RESOURCE DEVELOPMENT****4 HOURS**

Morality (virtues):Importance of Introspection: 1 Mine (Ego, Possessiveness) Six Evi Temperaments-Greed-Anger-Miserliness Immoral sexual passion - Inferiorty and superiority Complex - Vengeance Maneuvering of Six Temperaments: Contentment-Tolerance-Charity-Chastity -Equality-Pardon (Forgiveness) - Five essential Qualities acquired through Meditation: Perspicacity Magnanimity Receptivity Adaptability-Creativity (Improved Memory Power)

**UNIT V LAW OF NATURE****5 HOURS**

Ten stages of the Mind - Five kosas of the mind Maintaining good Relationships Thought- Importance of thoughts - Reasons for Thoughts Practice of Analysis of ThoughtsDefinition of Desire-Root causes for desires Types of desires Desires Essential for success Practice for Moralization of Desires Thought-Reformation-Frugality. Anger- Reasons for Anger-Anger and Peace Ill effects of anger Tolerance and Forgiveness - Neutralization of Anger- practice. Diversity in Men (Why Men Differ) Love and compassion, Eradication of Worries: Reasons for Worries-Fout types of worries Il effects-results-Practice for Eradication of Worries

**YOGA PRACTICES:** Thandasana Chakrasana (sideways) Vruchasana Thirikonasana Varasana

**TOTAL: 24 HOURS****TEXT BOOKS:**

1. Kayakapam Thathuvagnani Vethathiri Maharishi
2. Light on yoga BKS.lyenger
3. ManavalakalaPart-1-Thathuvagnani Vethathiri Maharishi.

**REFERENCE BOOKS:**

1. Manavalakala part-2-Thathuvagnani Vethathiri Maharishi
2. Mind ThathuvagnariVethathir Maharishi
3. Simplified Physical Exercises- ThathuvagnaniVethathiri Maharishi
4. Sound Health through yoga - Dr.Chandrakaran
5. The world orcer of Holistic unity- ThathuvagnaniVethathiri Mahanshi
6. Thirukkural-Rev. Dr.G.U.pope
7. Yoga for modern age ThathuvagnaniVethathin Maharishi

**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	2
CO2	3	-	3	3	-	-	1	-	-	-	1	-	-	-	-	1	1
CO3	3	-	-	-	-	2	-	-	-	3	2	-	-	-	-	-	2
CO4	3	-	-	2	2	-	-	-	-	-	3	-	-	-	-	1	2
CO5	3	-	3	3	2	1	-	-	1	-	3	-	-	2	3	2	-
<b>AVG</b>	<b>3</b>	<b>-</b>	<b>3</b>	<b>2.6</b>	<b>2</b>	<b>1.5</b>	<b>1.5</b>	<b>-</b>	<b>1</b>	<b>3</b>	<b>2</b>	<b>-</b>	<b>-</b>	<b>2</b>	<b>3</b>	<b>1.2</b>	<b>1.7</b>

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

**பாடத்திட்டப் பொதுநோக்கம்**

- கற்றல் வழி சிந்தனைத் திறனையும், கருத்து வெளிப்பாட்டுத் திறனையும், மேம்படுத்துதல்.
- அரசுத் தேர்வுகளுக்கு மாணவர்களை ஆயத்தமாக்குதல்; திறனாய்வு நோக்கை மேம்படுத்துதல்.
- இலக்கியங்களின் வழி மனித வாழ்வியலை உணர்த்துதல்.
- இன்புறுத்தல் மற்றும் அறிவுறுத்தல் நிலைகளில் இலக்கியங்களின் பங்களிப்பை உணர்த்துதல்.
- இளைய தலைமுறையினருக்கு அற உணர்வு மற்றும் வாழ்வியல் மதிப்புகளை அறிவுறுத்துதல்.

**பாடத்திட்டப் பயன்விளைவு**

- இந்தியக் குடியரிமைப்பணி முதலான போட்டித் தேர்வுகளில் இடம்பெறுகின்ற, 'தமிழ் இலக்கிய வரலாறு' குறித்த முழுமையான அறிமுகத்தை அடைதல்.
- தொல்லியல், கல்வெட்டியல் மற்றும் ஓலைச்சுவடியியல் சார்ந்த ஆவணத் தேடலுக்குரிய ஆய்வு மனப்பான்மையுடன், இலக்கியங்களை அணுகுதல்.
- 'அறிவியல் தமிழ்' ; 'இணையத் தமிழ்' போன்ற தமிழின் வளர்ச்சித் துறைகள் சார்ந்த திறன் மேம்பாடு பெற்றிருத்தல்.
- வேலைவாய்ப்புக்குரிய வகையில் படைப்பாக்கத்திறன் முதலான மொழி ஆளுமை பெற்றிருத்தல் ;
- சமூக வாழ்வியல் மதிப்புகளைப் பேணுவதற்குக் கருவியாக உள்ள இலக்கியங்களை நாடுகின்ற மனப்பான்மை வளர்ச்சி.

**இலக்கிய இன்பம்**

**அலகு - I**

**11 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), காவிநீர் (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**

- கண்ணன் என் சீடன் (1-150 வரிகள்) - மகாகவி பாரதியார்

கவிதை	- பெண்களின் உரிமைகள்(பெண்மை) - கவிமணி
கவிதை	- செருப்புடன் ஒரு பேட்டி- கவிஞர் மேத்தா
சிறுகதை	- கடவுளும் கந்தசாமிப் பிள்ளையும் - எழுத்தாளர் புதுமைப்பித்தன்
கட்டுரை	- ஆளுமைத்திறன் அறிவோம் (தன்னம்பிக்கை மாத இதழ்)
படைப்பிலக்கியப் பயிற்சி	- கட்டுரைப் படைப்பாக்கத்திறன்

### அலகு - 2

10 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
படைப்பிலக்கியப் பயிற்சி	- கவிதைப் படைப்பாக்கத்திறன்

### அலகு - 3

10 மணிநேரம்

தமிழ் இலக்கிய வரலாறு	- தமிழ்ப் புதுக்கவிதையின் தோற்றமும் வளர்ச்சியும்
பக்தி இலக்கியம்	- திருவருட்பா - அஞ்சாதே நெஞ்சே (10 கண்ணிகள்) - இராமலிங்க அடிகளார்.
கவிதை	- கனவுகள் +கற்பனைகள் = காகிதங்கள் - கவிஞர் மீரா
கவிதை	- மின்மினிகளால் ஒரு கடிதம் - கவிஞர் அப்துல்ரகுமான்
கவிதை	- ஒட்டடை- கவிஞர் தாமரை
சிறுகதை	- நாற்காலி - எழுத்தாளர் கி. ராஜநாராயணன்
கட்டுரை	- உயர்தனிச் செம்மொழி - முனைவர் இரா. குணசீலன்
இலக்கணம்	- வல்லினம் மிகும், மிகா இடங்கள்
படைப்பிலக்கியப் பயிற்சி	- சிறுகதைப் படைப்பாக்கத்திறன்

### அலகு- 4

10 மணிநேரம்

தமிழ் இலக்கிய வரலாறு	- தமிழ்ச் சிறுகதையின் தோற்றமும் வளர்ச்சியும்.
கவிதை	- இயேசு காவியம் - கசப்புறு பாத்திரம் - “வானி லங்கு நிலவு” முதல் “நேர மின்று நெருங்கியே” (1 முதல் 8 பாடல்கள்) - கவிஞர் கண்ணதாசன்.
கவிதை	- அதோ அந்த அவர்கள் - கவிஞர் வாலி.

- கவிதை - ஏழை இங்கொருவருமில்லை - கவிஞர் குலோத்துங்கன்.  
 சிறுகதை - சுயநலம்- கவிஞர் விந்தன்.  
 கட்டுரை - கங்கை வேடனும் காளத்தி வேடனும் - சொல்லின் செல்வர் ரா.பி. சேதுப்பிள்ளை.

ஆளுமைத்திறன் மேம்பாடு - பேச்சுக்கலை

அலகு -5

07 மணிநேரம்

- தமிழ் இலக்கிய வரலாறு - தமிழ் உரைநடையின் தோற்றமும் வளர்ச்சியும்  
 கவிதை - தவத்தின் மேன்மை - கவிஞர் குணங்குடி மஸ்தான் சாகிபு  
 கவிதை - சின்னச் சின்ன பிரளயங்கள் - கவிஞர் வைரமுத்து  
 கவிதை - சுயம் - கவிஞர் சல்மா  
 சிறுகதை - மீன் - எழுத்தாளர் பிரபஞ்சன்  
 கட்டுரை - வீரச்சுவை - நாவலர் ந.மு.வேங்கடசாமி நாட்டார்  
 மொழித்திறன் மேம்பாடு - பிழையின்றி எழுதுதல் பயிற்சி.  
 மரபுத்தமிழ் - திணைமரபு - உயர்திணை, அஃறிணை, அறிவியல் கலைச்சொற்கள்.

மொத்த மணிநேரம் - 48

TEXT BOOK T1 - கற்பகச் சோலை - தமிழ்ப்பாட நூல், இலக்கிய இன்பம், தமிழ்த்துறை வெளியீடு, கற்பகம் உயர்கல்விக்கழகம், கோயம்புத்தூர் - 21.

பார்வை நூல்கள்

R1 - தமிழ் இலக்கிய வரலாறு, முனைவர் கா.கோ. வேங்கடராமன், கலையக வெளியீடு, நாமக்கல்.

R2 - பெரியபுராணம் தொகுதி-1 பன்னிருதிருமுறை ஆய்வுமைய வெளியீடு, கற்பகம் உயர்கல்விக்கழகம், கோவை-21

இணையதளம்

W1-www.tvu.org.in

W2- www.maduraitamilproject.com

இதழ்கள்

J1- International Research Journal of Indian Literature,irjil.in

J2 - International Tamil Research Journal, iorpress.in

CO, PO, PSO Mapping

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PO13	PO14	PO15	PSO1	PSO2
CO1	3	3	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CO2	3	3	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CO3	3	3	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CO4	3	2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CO5	2	2	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Average	2.8	2.6	2.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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

**PREREQUISITE:**

Not Required

**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) :**

- Basic knowledge of Hindi language will be improved.
- Knowledge of glossaries will increase.
- Hindi language expression will rise.
- Learners will enrich their grammar in Hindi.
- The desire to read literature, such as the essay on a poem, develops.

<b>UNIT-I</b>	a) Poetry – Nagarjun b) Drama -Dhruva Swamini c) Novel - Nirmala , Thotharam d) Grammar – Kaal , Theen Prakar	<b>9 HOURS</b>
<b>UNIT-II</b>	a) Poetry – Sita , Ram b) Drama – Mandhakini , Koma c) Novel – Mansaram , Jiyaram d) Grammar – Upsarg, Prathyay	<b>9 HOURS</b>
<b>UNIT-III</b>	a) Poetry – Lakshman, Valmiki b) Drama – Ramaguptha , Chandhraguptha c) Novel – Sudha, Bhuvan Mohan Singh d) Grammar – Sabda Vyutpathi	<b>10HOURS</b>
<b>UNIT-IV</b>	a) Poetry -Vishvaamithra, Thrijada b) Drama –Sikhar Swami,Shakraj c) Novel – Udhaybanulaal, Siyaram d) Grammar – Sambandh Chochak	<b>10HOURS</b>
<b>UNIT-V</b>	a) Poetry – Bhagirath , Sagar b) Drama – Khingal , Mihirdev , Prohith c) Novel – bhalchandra Sinha,Kalyani, Rangili Bai d) Samuchchaybodhak, Vishmayathibodhak	<b>10HOURS</b>
	<b>TOTAL: 48 HOURS</b>	

## REFERENC BOOKS:

1. Modern Poetry : Bhoomija Writer : Nagarjun Editors : Somdev & shobhakanth Publisher : Rdha Krishna Publication New Delhi - 110051
2. Drama : Dhruva Swamini Writer : Jaysankar Prasad Publisher : Sakshi Publication S 16,Naveen Shahdhara Delhi – 110032
3. Novel : Nirmala Writer : Premchandh Publisher : Prabhath Prakashan, 4/19 Asaf Ali Road New Delhi – 110002
4. Grammar : Sugam Hindi Vyakaran Writer : Pro. Vamsidhar & Dharmapal Publisher : Siksha Bharathi, Madharsa Road, New Delhi – 110006.

## CO, PO, PSO Mapping

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

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

**PREREQUISITE:**  
Not Required

**COURSE OBJECTIVES:(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 OUTCOMES: ( COs )**

- Get a basic understanding of Memories
- It will create basic knowledge about Environmental Psychology.
- It will create awareness about our environment.
- Knowledge is gain about our country, culture etc.
- It will be an eye opener to the students towards our Mother Earth.

<b>PART I – MALAYALAM II</b>		
<b>Unit No.</b>		<b>Hours</b>
<b>I</b>	Novel -Enmakaje	<b>10</b>
<b>II</b>	Novel – Enmakaje	<b>10</b>
<b>III</b>	Memories – Neermaathalam Poothakaalam	<b>10</b>
<b>IV</b>	Memories – Neermaathalam Poothakaalam	<b>9</b>
<b>V</b>	Translation(English to Malayalam)	<b>9</b>
<b>TOTAL</b>		<b>48</b>

**Text Books:**

1. Emakaje – Ambikasuthan Mangad – DC Books Kottayam, Kerala
2. Neermaathalam Poothakaalam - Madhavikutty -DC Books Kottayam, Kerala

**Reference Books:**

1. Athmakathasahithyam Malayalathil - Dr. Vijayalam Jayakumar (N.B.S.Kottayam)
2. Malayala Novel Sahithya Charitram-K.M.Tharakan (N.B.S.Kottayam)
3. Sahithya Charitram Prasthanangalilude- Dr.K.M George,(D.C.Books Kottayam)
4. Malayala Sahithyavimarsam-Sukumar Azheekode (D.C.books)

**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	-	-	-	-	-	-	3	-	-	-	-	-	-	-	-	-	-
CO3	-	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CO4	-	-	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CO5	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-
<b>Average</b>	-	<b>1.2</b>	<b>0.6</b>	-	-	-	<b>0.6</b>	-	-	-	-	<b>0.4</b>	-	-	-	-	-

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

**PREREQUISITE:**

Not Required

**COURSE OBJECTIVES(CO):**

- The fundamental objective of the curriculum is to impart effective science education at the undergraduate level, exposing them to recent trends and developments in the subject.
- Creating scientific temper is another major objective of this curriculum.
- Another major thrust given here is to develop an environmental concern in all activities of the students. 'Go green', the motto of the syllabus emphasizes the urgent need to conserve nature without destruction of natural resources.

**COURSE OUTCOMES(COs) :**

- Critical Thinking :Take informed actions after identifying the assumptions that frame students' thinking and actions.
- Problem Solving: Understand and solve problems of relevance to society to meet the specified needs using the knowledge, skills and attitudes acquired.
- Effective Communication: Speak, read, write and listen clearly in person and through electronic media in English and in one Indian language, and make meaning of the world by connecting people, ideas, books, media and technology.
- Effective Citizenship: Demonstrate empathetic social concern and equity centered national development.
- Environment and Sustainability: Understand the issues of environmental contexts and sustainable development.

**UNIT-I**

Introduction to Sanskrit Prose, Important prose works in Sanskrit

**10 HOURS**

**UNIT – II**

Balaramayana – Balakanda

**10 HOURS**

**UNIT – III**

Balaramayana – Ayodhyakanda

**10 HOURS**

**UNIT – IV**

Balaramayana – Aranyakanda

**09 HOURS**

**UNIT – V**

Athmanepada Declension of ending nouns (feminine) Passages from Sanskrit Self Teacher  
(Simple sentences)

**09 HOURS**

**TOTAL: 48 HOURS**

**Prose text book available at :**

- Balaramayana – a simple prose version, R.S. Vadhyar and sons Palghat, Kerala.

**CO, PO, PSO Mapping**

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	2	3	3	-	-	-	-	-	-	-	-	-	-	-
CO2	3	3	2	-	-	-	-	-	-	-	-	-	-	-
CO3	3	2	3	-	-	-	-	-	-	-	-	-	-	-
CO4	3	3	2	-	-	-	-	-	-	-	-	-	-	-
CO5	2	2	3	-	-	-	-	-	-	-	-	-	-	-
<b>Average</b>	<b>2.6</b>	<b>2.6</b>	<b>2.8</b>	-	-	-	-	-	-	-	-	-	-	-

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

**PREREQUISITE:**

Not Required

**COURSE OBJECTIVES (CO):**

- 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.	Remember
CO2	standardize and demonstrate understanding of LSRW skills.	Understand
CO3	utilize fundamentals of language for reading, writing and effective communication.	Apply
CO4	enhancing the reading skill to build the leadership quality.	Apply
CO5	Develop the moral and aesthetic values.	Evaluate

**Unité - I**

- a) Leçon- Les loisirs **9 HOURS**
- b) Communication - Parler de ses goûts et de ses préférences
- c) Grammaire - Les adjectifs interrogatifs , Les nombres ordinaux,  
L'heure, Les pronoms personnels COD
- d) Verbes -savoir et connaitre
- e) Lexique - Les loisirs, Les activités quotidiennes ,Les matières
- f) Culture - les grands fleuves de france.

**Unité – II**

- a) Leçon - La routine **9HOURS**
- b) Communication - Décrire sa journée
- c) Grammaire - Les verbes pronominaux, Les verbes du premier groupe en -e\_er, -é\_er, -eler, -eter, Le verbe prendre

- d) Verbes - manger, boire
- e) Lexique - Le temps et l'heure ,La fréquence
- f) Culture- les bandes dessinées.

**Unité - III**

- a) Leçon -Où faire ses courses **10 HOURS**
- b) Communication - Au restaurant : commander et commenter
- c) Grammaire - Les articles partitifs, Le pronom en (la quantité) très ou beaucoup ? La phrase négative
- d) Verbes - les verbes irréguliers
- e) Lexique - Les aliments, Les quantités, Les commerces et les commerçants
- f) Culture -Les plats français

**Unité -IV**

- a ) Leçon - Decouvrez et dégustez **10 HOURS**
- b) Communication - Inviter et répondre ,à une invitation
- c) Grammaire - L'impératif ,Il faut, c'est/ il est,future proche
- d) Verbes - Les verbes devoir, pouvoir, savoir, vouloir
- e) Lexique - Demander et dire le prix, Les services, Les moyens de paiement
- f) Culture - Le festival du mot

**Unité - V**

- a) Leçon - Tout le monde s'amuse, Les ados au quotidien **10 HOURS**
- b) Communication - Décrire une tenue , Écrire un message amical
- c) Grammaire - Les adjectifs démonstratifs, La formation du féminin Le pronom indéfini on, passé composé.
- d) Verbes - Les verbes du premier groupe en -yer, Les verbes voir et sortir
- e) Lexique - Les sorties Situer dans le temps, La famille ,(2) Les vêtements et les accessoires
- f) Culture - Le pays des gourmands

**TOTAL: 48 HOURS**

**REFERENCE BOOKS:**

1. Cocton Marie –Noëlle , Duplex Dorothée, Heu Elodie , Kasazian Emilie, Ripaud Delphine, Saison 1- Méthode de français, Didier, Paris.2015.
2. Cocton Marie – Noëlle, Duplex, Heu Elodie, Kasazian Emilie ,Ripaud Delphine, Saison 1 – Cahier d'activités , Dider ,Paris , 2015
3. Anne Akyüz,Bernadette Bazelle- Shahmael,Joëlle Bonenfant, Marie- Françoise Gliemenn,Les exercices de grammaire,Hachette FLE, Paris,2005
4. Christian Beaulieu, Je pratique, Exercices de grammaire A1, Dider,Paris,2015
5. Nathalie BIE, philippe SANTINAN,Grammaire pour adolescents-250 exercices, CLE International , Paris , 2005

## WEBSITES :

1. <http://enseigner.tv5monde.com/>
2. [bonjourdumonde.com /exercices/contenu/le – francais-du- tourisme.html](http://bonjourdumonde.com/exercices/contenu/le-francais-du-tourisme.html)
3. <http://www.bonjurdefrance.com/>
4. <https://www.lepointdufle.net/>

### CO, PO, PSO Mapping

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PO13	PO14	PO15	PSO1	PSO2
CO1	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CO1	-	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CO3	-	-	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CO4	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CO5	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-
<b>Average</b>	--	<b>2.5</b>	<b>2.5</b>	-	-	-	-	-	<b>2</b>	-	-	-	-	-	-	-	-

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

**PREREQUISITE:**

Not required

**COURSE OBJECTIVES(CO):**

- To make the students to speak and write errors free English.
- 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.	Remember
CO2	Standardize and demonstrate understanding of LSRW skills.	Remember
CO3	Utilize fundamentals of language for reading, writing and effective communication.	Apply
CO4	Enhancing the reading skill to build the leadership quality.	Understand
CO5	Develop the moral and aesthetic values.	Understand

**UNIT - I**

**8 HOURS**

**LISTENING:** Listening to Different Accents and Intonation

**SPEAKING** : Preparing for Small Talks

**READING** : Syllabification

**COMPOSITION WRITING:** Developing a story with pictures

**LITERATURE:** Refuge Mother and Child by Chinua Achebe (Poetry)

**GRAMMAR:** Subject Verb Agreement

**UNIT - II**

**7 HOURS**

**LISTENING:** Listening in Different Contexts

**SPEAKING:** Oral Presentation

**READING:** Reading Passages

**COMPOSITION WRITING:** Hints Development

**LITERATURE:** Prose: My Childhood- Dr. A.P.J. Abdul Kalam

**GRAMMAR:** Phrases and Clauses

**UNIT - III**

**7 HOURS**

**LISTENING:** Listening to Buisness stories/Tedtalks

**SPEAKING:** Public speaking and secrets of good delivery

**READING** : Note Making

**COMPOSITION WRITING:** Rearranging Paragraphs

**LITERATURE:** Poem: A Gift of India - Sarojini Naidu

**GRAMMAR:** Voices

**UNIT - IV**

**7 HOURS**

**LISTENING:** Listening to instructions and announcements

**SPEAKING:** Debating

**READING** : Close Reading

**COMPOSITION WRITING:** Writing Agenda, Memos, Minutes and Notices

**LITERATURE:** Play: Dance Like a Man - Mahesh Dattani

**GRAMMAR:** Degrees of Comparison

#### UNIT - V

**7 HOURS**

**LISTENING:** Listening to Product Description- Labelling and Gap Filling Exercises

**SPEAKING:** Developing Argument and Closing Argument

**READING:** Reading Comprehension/ Summary Writing

**COMPOSITION WRITING :** Dialogue Writing

**LITERATURE:** Short- story: The Bear Hunt- Leo Tolstoy

**GRAMMAR:** Direct and Indirect speech

**TOTAL: 36 HOURS**

#### TEXT BOOK:

1. Board of Editors (2024), Acrostic II. Karpagam Academy of Higher Education

#### REFERENCE BOOKS:

1. *Martin's, St* (2013). *Oxford Handbook of Writing: Handbook of Writing*. Cambridge University Press.
2. Julian Treasure (2012), *Sound Business*,. Oxford University Press
3. Hornby, A, S. (1975). *The Guide to patterns and usage in English*: oxford university Press.
4. Ellis, R. (1990). *Instructed second language acquisition*. Oxford: oxford university Press.

#### WEB SITES:

1. <https://allpoetry.com/>
2. <https://ncert.nic.in/textbook/pdf/iebe106.pdf>
3. <https://poets.org/poem/gift-india>
4. <https://shorturl.at/4sgld>
5. <https://sportingclassicsdaily.com/leo-tolstoy/>

#### CO, PO, PSO Mapping

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

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

**PREREQUISITE:**

- Fundamental knowledge of financial accounting concepts and procedures.

**COURSE OBJECTIVES (CO):**

- Understand and apply accounting procedures for partner admission, including capital adjustments and profit-sharing ratios.
- Learn and apply methods for computing goodwill and understand its impact on partnership valuation.
- Gain knowledge of accounting treatments for partnership dissolution, partner insolvency, and fire claims.

**COURSE OUTCOMES (CO s):**

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

COs	Course Outcomes	Blooms Level
CO1	Understand the concept of partnership and accounting procedure at the time of admission of a partner.	Understand
CO2	Acquire knowledge on methods of computing goodwill	Understand
CO3	Gain knowledge on accounting treatment on dissolution of partnership firm	Understand
CO4	Acquire knowledge on accounting treatment on insolvency of partners	Understand
CO5	Gain knowledge on steps in calculation of fire claims and acquire the practical exposure on accounting treatment of partnership firms	Understand

**UNIT – I ADMISSION OF A PARTNER****19 HOURS**

Partnership- Introduction- Types – Admission of a Partner – Methods of valuation of Goodwill – Treatment for Goodwill – Revaluation of Assets and Liabilities – Calculation of Ratios for Distribution Profits – Capital Adjustments.

**UNIT – II RETIREMENT AND DEATH OF A PARTNER****19 HOURS**

Retirement of Partner – Calculation of Gaining Ratio – Revaluation of Assets and Liabilities–Treatment of Goodwill – Treatment of Undistributed Profits or losses- Settlement of the total amount due to the Retiring partner. Death of a Partner –Calculation of amount due to Deceased partner -Methods of calculating deceased Partner’s share of profit – On the basis of time – on the basis of Turnover.

**UNIT – III DISSOLUTION AND INSOLVENCY OF A PARTNER****19 HOURS**

Dissolution of firm – Modes of Dissolution of Firm – Settlement of accounts- Insolvency of a Partner – Garner Vs Murray – Insolvency of two partners.

**UNIT – IV INSOLVENCY OF ALL PARTNERS AND SALE OF FIRM****19 HOURS**

Insolvency of all Partners –Deficiency Account – Piecemeal Distribution of cash (Proportionate Capital Method only).

**UNIT – V JOINT VENTURE ACCOUNT****20 HOURS**

Joint Venture Account – Meaning- Features- Distinction between Joint Venture and Partnership- Accounting for Joint Venture.

**Note:** Distribution of Marks - 20% theory and 80% problem

**TOTAL: 96 HOURS****TEXT BOOK:**

1. Jain, S.P. and Narang (2018), Financial Accounting, Kalyani Publishers, Ludhiana

**REFERENCE BOOKS :**

1. Shukla, M.C. Grewal, T.S. and Gupta, S.C. (2016), *Advanced Accounts*, Sultan Chand and Sons, New Delhi
2. Gupta, R.L., (2014), *Advanced Accountancy*. Sultan Chand and Sons, New Delhi
3. Maheswari, S.N., C A Sharad, K. Maheswari and K M Maheswari Suneel (2017), *Advanced Accounting*. Vikas Publishing House Pvt. Ltd., New Delhi.
4. Arulanandam, M.A., & Raman, K.S. (2016), *Advanced Accountancy*, Vikas Publishers, New Delhi.
5. Gupta, R.L., & Rathaswamy. (2014), *Advanced Accounting*. Sultan Chand & Sons, New Delhi.

**Websites:**

1. [https://swayam.gov.in/nd2\\_cec20\\_mg16/preview](https://swayam.gov.in/nd2_cec20_mg16/preview)

**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	3	3	-	1	3	3	-	-	-	-	-	-	1	1
CO2	3	-	2	3	3	2	-	3	3	-	-	-	-	-	-	1	1
CO3	3	-	2	3	3	2	-	3	3	-	-	-	1	-	-	1	1
CO4	3	-	2	3	3	2	-	3	3	-	-	-	1	-	-	1	1
CO5	3	-	-	3	3	2	-	3	3	1	-	-	-	-	-	1	1
<b>AVG</b>	<b>3</b>	<b>-</b>	<b>2</b>	<b>3</b>	<b>3</b>	<b>2</b>	<b>1</b>	<b>3</b>	<b>3</b>	<b>1</b>	<b>-</b>	<b>-</b>	<b>1</b>	<b>-</b>	<b>-</b>	<b>1</b>	<b>1</b>

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

Instruction Hours/week: L:4 T:0 P:0

Marks: Internal:40 External:60 Total:100

End Semester Exam: 3 Hours

**PREREQUISITE:**

- Basic Understanding of Web Technologies, Basic Programming Concepts,

**COURSE OBJECTIVES:**

- Understand the concepts and architecture of the World Wide Web, as well as the technologies used in Web Programming.
- Understand and practice markup languages, including embedded dynamic scripting on the client-side.
- Recognize the importance of object-oriented aspects of scripting in Internet programming.

**COURSE OUTCOMES (CO's):**

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

COs	Course outcomes	BloomsLevel
CO1	Design web pages	Create
CO2	Use technologies of Web Programming	Apply
CO3	Apply object-oriented aspects to Scripting	Apply
CO4	Create a basic website using HTML and Cascading Style Sheets	Create
CO5	Design and implement dynamic web page with validation using JavaScript objects and by applying different event handling mechanisms	Apply

**UNIT I – HTML**

**10 HOURS**

What is HTML -HTML Documents -Basic structure of an HTML document -Creating an HTML document - Mark up Tags -Heading-Paragraphs - Line Breaks - HTML Tags. Introduction to elements of HTML- Working with Text - Working with Lists, Tables -Working with Hyperlinks, Images and Multimedia.

**UNIT II – FRAMES**

**10 HOURS**

Introduction to Frame, <frameset> and <frame> Tag with its Attributes, Creating Frames, Linking Frames, <noframes> tag, Complex Framesets, Floating or Inline Frame. Forms : <Form> Tag and its Attributes, <Input> Tag and its Attributes, Form Controls: Text Controls, Password Fields, Radio Buttons, Checkboxes, Reset and Submit Buttons, Form Control Selection, Option Processing and Text Area, Hidden Fields. Embedding Multimedia: Introduction, Embedding Multimedia, Inserting Sound/Audio Formats, Inserting Video File Formats.

**UNIT III – CSS**

**9 HOURS**

Concept of CSS- Creating Style Sheet - CSS Properties -CSS Styling: Background-Text Format-Controlling Fonts - Working with block elements and objects - Working with Lists and Tables - CSS Id and Class - Box Model: Introduction- Border properties- Padding Properties- Margin properties - CSS

## UNIT IV – JAVASCRIPT PROGRAMMING

10 HOURS

Introduction to JavaScript: Utility of JavaScript-Evolution of the JavaScript Language- JavaScript Versions and Browser Support- Differences Between Client-Side vs. Server-Side JavaScript-Statements and Operators-Variable Declarations- Operators and Statements- Operator Precedence- Implementing Control Constructs: Conditional and Looping Constructs.

## UNIT V - JAVASCRIPT OBJECTS

9 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.

**TOTAL :48 HOURS**

### TEXT BOOKS:

1. “Web Coding & Development All-in-One For Dummies”,Paul McFedries ,2018 “Fundamentals of Web Development” ,Randy Connolly, Ricardo Hoar ,2017
2. Principles of web design., Joel sklar,sixth edition,2015

### REFERENCE BOOKS:

1. “HTML and CSS: Design and Build Websites”, Jon Duckett,2014
2. Thomas A Powell, Fritz Schneider, “JavaScript: The Complete Reference”, Third Edition, Tata McGraw Hill, 2013

### WEBSITES:

1. <http://www.freeCodeCamp Guides.com/>
2. <http://www.Codrops CSS Reference/>
3. <https://developer.mozilla.org/enUS/docs/Web/JavaScript/Guide>.
4. <http://www.w3schools.com>.
5. <https://nptel.ac.in/courses/106105084/>
6. <https://freevideolectures.com/blog/webdesign-online-courses-and-video-lectures/>

### 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
CO2	3	-	-	-	-	-	-	-	-	-	2	-	-	-	3	1	1
CO3	3	-	2	-	2	-	-	-	-	-	2	-	-	-	-	1	1
CO4	3	-	-	-	2	-	-	-	1	-	-	-	-	-	3	1	1
CO5	3	-	2	-	-	-	-	-	-	-	-	-	-	-	3	1	1
Avg	3	-	2	-	2	-	-	-	1	-	2	-	-	-	3	1	1

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

Instruction Hours / Week: L:0 T:0 P:6

Marks: Internal:40 External:60 Total: 100  
End Semester Exam: 3Hours

**PREREQUISITE:**

- Stock items, stock groups, units of measurement, and methods of inventory valuation (FIFO and LIFO).

**COURSE OBJECTIVES (CO) :**

- Understand and manage various accounting processes, including accounts heads, vouching, inventory valuations, TDS, payroll, and GST invoice entries in accounting software.
- Classify items under appropriate heads and generate financial, TDS, and payroll reports to evaluate outputs.
- Communicate and document outputs effectively, identifying objectives and outcomes for each exercise, and apply computerized systems for lifelong learning.

**COURSE OUTCOMES(COs):**

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

COs	Course Outcomes	Blooms Level
CO1	Familiarize on the account's heads, vouching, inventory valuations, TDS and Pay roll process available in the accounting software	Understand
CO2	Classify the items under items heads	Analyze
CO3	Generate the financial Reports, TDS and pay roll reports and evaluate the output.	Evaluate
CO4	To enter the different types GST invoices in tally	Apply
CO5	Communicate the outputs in written form identifying the objective and outcome of each exercise and to apply the utilization of computerised system as a lifelong learning	Apply

**LIST OF EXERCISES**

1. Create a Company and Ledgers in Tally. **8 HOURS**
2. Create an Accounting voucher with example in tally. **8 HOURS**
3. Create different types of GST Invoices in Tally. **8 HOURS**
4. Create Debit/Credit Notes, Memorandum and Post-Dated Vouchers in Tally **8 HOURS**
5. Create Stock Group, Stock Items and Unit of Measurement in Tally. **8 HOURS**
6. Create an Inventory and Manufacturing Vouchers. **8 HOURS**
7. Prepare Balance Sheet, Profit/Loss Account, Stock Summary and Ratio Analysis in Tally. **6 HOURS**
8. Create a payroll in tally with suitable example. **6 HOURS**
9. Do the following exercise with the example that given below **12 HOURS**
  - ❖ Create a company in Tally by your name.
  - ❖ Create 3 stock items named milk, roti and mobile. Opening balances of these 3 stock items would be milk – 10 liters, roti – 20 pieces and mobile – 5 numbers.
  - ❖ Now, create sales ledgers – one for 28% GST rate and one for 5% GST rate.
  - ❖ Also, create purchase ledgers in the same way each of 28% GST and 5% GST.
  - ❖ Create 1 sundry debtor outside your state and 1 sundry debtor inside your state.
  - ❖ Similarly, create 1 sundry creditor outside your state and 1 sundry creditor inside your state.
  - ❖ Now, create GST Taxation ledgers for CGST, SGST and IGST for input as well as output taxation of GST. Totally, there will be 6 GST taxation ledgers.

- ❖ Now, create a purchase entry in which you will purchase 5 liters of milk at 5% GST rate for Rs50 per liter, 5 pieces of roti for Rs10 per piece and 3 numbers of mobile for Rs. 25,000 per mobile.
- ❖ GST rate for roti and mobile is 28%. Purchase this from inside your state.
- ❖ Also, fill in the E-Way bill details.
- ❖ Now, create a sales entry. Sell all the milk at Rs.55 per liter with the same rate of GST as it was purchased. Sell 20 pieces of roti at Rs.20 per piece and 1 mobile phone at Rs. 50,000 per mobile at the same rates of GST as it was purchased.
- ❖ This sale will be outside the state. Also, fill in the E-Way bill details.
- ❖ Now, check the profit and loss account and see what is the total value of sales for 5% GST?
- ❖ Go to Stock Summary and see what is the gross profit on sales of milk under the FIFO and LIFO methodology of stock valuations?

**TOTAL : 72 HOURS**

### TEXT BOOKS:

1. Tally education, (2018), Official Guide to Financial Accounting Using Tally. ERP 9 with GST (Release 6.4), 4th revised and updated edition, BPB Publications; New Delhi
2. Asok K. Nadhani (2018), Tally ERP Training Guide – 4<sup>th</sup> edition, BPB Publications; New Delhi

### REFERENCE BOOKS :

1. Sajee Kurian, (2017) Learning Tally ERP 9 with GST, 1<sup>st</sup> edition, Blessings Inc, Mumbai.
2. Ajay Maheshwari and Shubham Maheshwari (2017), Implementing GST in Tally.ERP 9, 1<sup>st</sup> edition, Tally E-Learning.
3. Shraddha Singh, Navneet Mehra (2014), Tally ERP 9 (Power of Simplicity): Software for Business and Accounts, V&S Publishers, New Delhi.

### 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	3	-	-	-	3	-	-	-	-	-	1	1
CO2	3	-	-	3	3	3	-	-	-	-	-	-	-	-	-	1	1
CO3	3	2	-	3	3	3	-	-	2	-	-	-	-	-	-	1	1
CO4	3	-	-	3	3	-	-	-	-	3	-	-	-	-	-	1	1
CO5	-	2	-	-	-	-	-	-	2	3	1	-	-	-	1	1	1
<b>Average</b>	<b>3</b>	<b>2</b>	<b>1</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>-</b>	<b>-</b>	<b>2</b>	<b>3</b>	<b>1</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>1</b>	<b>1</b>	<b>1</b>

**1 - Low, 2 - Medium, 3 - High, ‘-’ - No Correlation**

Instruction Hours/week: L:0 T:0 P:4

Marks: Internal:40 External:60 Total:100

End Semester Exam: 3 Hours

**PREREQUISITE:**

- Basic understanding of HTML, Basic Programming Logic and Algorithms.

**COURSE OBJECTIVES (CO):**

- Understand the principles of creating an effective web page and develop skills in analyzing website usability.
- Learn and apply languages such as HTML, DHTML, XML, and PHP for web development, including creating complex webpage layouts and multi-page websites.
- Utilize JavaScript for event-driven programming and enhancing web interactivity.

**COURSE OUTCOMES (CO's):**

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

COs	Course outcomes	BloomsLevel
CO1	Proficiency in Basic HTML Formatting and Structure	Understand
CO2	Competence in Creating Lists, Links, and Tables in HTML	Create
CO3	Ability to Design and Implement HTML Forms	Create
CO4	Development of Multi-Page Websites and Frame-Based Layouts	Create
CO5	Application of JavaScript for Event-Driven Programming and Problem Solving	Apply

**List of Programs**

1. Create HTML document with following formatting – Bold, Italics, Underline, Colors, Headings, Title, Font and Font Width, Background, Paragraph, Line Brakes, Horizontal Line, Blinking text as well as marquee text. **3 HOURS**
2. Create HTML document with Ordered and Unordered lists, Inserting Images, Internal and External linking. **3 HOURS**
3. Create HTML document with Table **3 HOURS**


4. Create Form with Input Type, Select and Text Area in HTML. **3 HOURS**

5. Create an HTML containing Roll No., student 's name and Grades in a tabular form. **3 HOURS**

6. Create an HTML document (having two frames) which will appear as follows **3 HOURS**

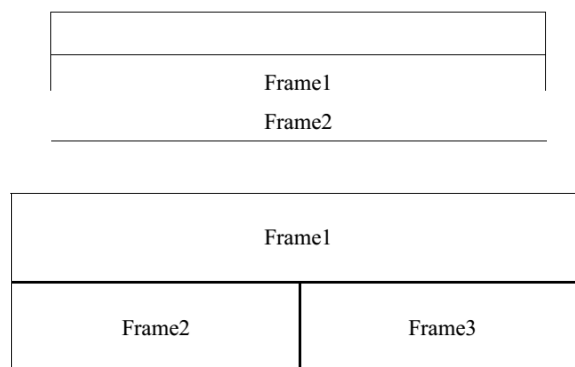
About	This frame would show the contents according to the link clicked by the user on the left frame.
Department 1	
Department 2	
Department 3	

7. Create an HTML document containing horizontal frames as follows **3 HOURS**

Department Names (could be along with Logos)
Contents according to the Link clicked

8. Create a website of 6 – 7 pages with different effects as mentioned in above problems. **3 HOURS**

9. Create HTML documents (having multiple frames) in the following three formats **3 HOURS**



10. Create a form using HTML which has the following types of controls: **4 HOURS**

- I. Text Box
- II. Option/radio buttons
- III. Check boxes
- IV. Reset and Submit buttons

**List of Programs using JavaScript: Create event driven program for following:**

11. Print a table of numbers from 5 to 15 and their squares and cubes using alert. **3 HOURS**

12. Print the largest of three numbers 8 **3 HOURS**

13. Find the factorial of a number n. **3 HOURS**

14. Enter a list of positive numbers terminated by Zero. Find the sum and average of these numbers.

**3 HOURS**

15. A person deposits Rs 1000 in a fixed account yielding 5% interest. Compute the amount in the account at the end of each year for n years.

**5 HOURS**

**TEXT BOOKS:**

1. “Web Coding & Development All-in-One For Dummies”, Paul McFedries, 2018 “Fundamentals of Web Development”, Randy Connolly, Ricardo Hoar, 2017

**REFERENCE BOOKS:**

1. Principles of web design., Joel sklar, sixth edition, 2015
2. “HTML and CSS: Design and Build Websites”, Jon Duckett, 2014
3. Thomas A Powell, Fritz Schneider, “JavaScript: The Complete Reference”, Third Edition, Tata McGraw Hill, 2013

**WEBSITES:**

1. <http://www.freeCodeCamp Guides.com/>
2. <http://www.Codrops CSS Reference/>
3. <https://developer.mozilla.org/enUS/docs/Web/JavaScript/Guide>.
4. <http://www.w3schools.com>.

**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	-	-	-	-	-	-	-	3	1	-
CO2	2	-	1	-	-	-	1	-	2	-	-	-	-	-	3	1	-
CO3	2	-	1	-	2	1	-	-	2	-	-	-	-	-	3	1	-
CO4	2	-	1	-	2	1	-	-	-	-	-	-	-	-	-	1	-
CO5	2	-	1	-	2	2	2	-	-	-	-	-	-	-	-	1	-
<b>Average</b>	<b>2</b>	<b>-</b>	<b>1</b>	<b>-</b>	<b>2</b>	<b>1.3</b>	<b>1.3</b>	<b>-</b>	<b>2</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>3</b>	<b>1</b>	<b>-</b>

**1 - Low, 2 - Medium, 3 - High, ‘-’ - No Correlation**

**PREREQUISITE:**

- Student should know about fundamentals of environment.

**COURSE OBJECTIVES (CO):**

- Create awareness about structure and functions of various ecosystems.
- Develop an attitude of concern for the natural resources availability and its environment protection.
- Learn about the environment, resources available, biodiversity and its conservation.

**COURSE OUTCOMES (COs):**

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

COs	Course Outcomes	Blooms Level
CO1	Define the structure and functions of various ecosystems	Remember
CO2	Learn the ethical, cross-cultural, and historical context of natural resources and the methods for conservation	Understand
CO3	Predict current scenarios and find ways for the protection and betterment of habitat	Analyze
CO4	Analyze the interactions between social and environmental problems	Apply
CO5	Develop systems concepts and methodologies to analyze and understand interactions between social and Environmental processes	Create

**UNIT - I INTRODUCTION - ENVIRONMENTAL STUDIES & ECOSYSTEMS 5 HOURS**

Environment Definition, Scope and importance; Ecosystem, Structure, classification, and functions of ecosystem. Energy flow, Food chains and food webs, Ecological succession. Forest ecosystem, Grassland Ecosystem, Desert ecosystem, Aquatic ecosystems (ponds, streams, lakes, rivers, oceans, estuaries).

**UNIT – II NATURAL RESOURCES - RENEWABLE AND NON-RENEWABLE RESOURCES 5 HOURS**

Natural resources - Renewable and Non – Renewable resources. Land resources, Land degradation, desertification. Forest resources – Deforestation: Causes and impacts due to mining. Water resources- Use and over-exploitation of surface and ground water.

**UNIT - III BIODIVERSITY AND ITS CONSERVATION 5 HOURS**

Conservation of biodiversity: in-situ and ex-situ conservation of biodiversity. Values of Biodiversity - Ecological, economic, social, ethical, aesthetic value. Bio-geographical classification of India. Hot-spots of biodiversity. Endangered and endemic species of India. Threats to biodiversity: habitat loss, poaching of wildlife, man-wildlife conflicts.

**UNIT - IV ENVIRONMENTAL POLLUTION 4 HOURS**

Environmental Pollution - Definition, causes, effects and control measures of Air pollution, Water pollution, Soil pollution, Noise pollution. Nuclear hazards and human health risks.

**UNIT - V SOCIAL ISSUES AND THE ENVIRONMENT****5 HOURS**

Social Issues and the Environment - Concept of sustainability and sustainable development. Climate change, global warming, ozone layer depletion, acid rain and its impacts on human communities and agriculture. Environment Laws (Environment Protection Act, Air Act, Water Act, Wildlife Protection Act, Forest Conservation Act).

**TOTAL : 24 HOURS****TEXT BOOKS :**

1. Anonymous. 2004. A text book for Environmental Studies, University Grants Commission and Bharat Vidypeeth Institute of Environmental Education Research, New Delhi.
2. Anubha Kaushik., and Kaushik, C.P. 2008. Perspectives in Environmental Studies. (3<sup>rd</sup> Ed.). New Age International Pvt. Ltd. Publications, New Delhi.

**REFERENCE BOOKS :**

1. Arvind Kumar. 2009. A Textbook of Environmental Science. APH Publishing Corporation, New Delhi.
2. Bodkin and Keller. 2014. Environmental Science: Earth as a Living Planet. (9<sup>th</sup> Ed.) Wiley
3. Mishra, D.D. 2010. Fundamental Concepts in Environmental Studies. S.Chand & Company Pvt. Ltd., New Delhi.
4. Odum, E.P., Odum, H.T. and Andrews, J. 1971. Fundamentals of Ecology. Philadelphia: Saunders.
5. Rajagopalan, R. 2016. Environmental Studies: From Crisis to Cure, Oxford University Press.
6. Sing, J.S., Sing. S.P. and Gupta, S.R. 2014. Ecology, Environmental Science and Conservation. S. Chand & Publishing Company, New Delhi.
7. Singh, M.P., Singh, B.S., and Soma, S. Dey. 2004. Conservation of Biodiversity and Natural Resources. Daya Publishing House, New Delhi.
8. Tripathy. S.N., and Sunakar Panda. (2011). Fundamentals of Environmental Studies (3<sup>rd</sup> Ed.). Vrianda Publications Private Ltd, New Delhi.
9. Uberoi, N.K. 2010. Environmental Studies. (2<sup>nd</sup> Ed.). Excel Books Publications, New Delhi.
10. Verma, P.S., and Agarwal V.K. 2016. Environmental Biology (Principles of Ecology).S. Chand and Company Ltd, New Delhi.
11. Environmental Biotechnology: Principles and Applications, Second Edition 2<sup>nd</sup> Edition by Bruce Rittmann and Perry McCarty , 2020

**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	2	2	-	2	2	2
CO2	3	-	-	-	-	-	-	2	2	-	2	2	2	-	2	2	2
CO3	3	-	-	-	-	-	-	2	2	-	2	2	2	-	2	2	2
CO4	3	-	-	-	-	-	-	2	2	-	2	2	2	-	2	2	2
CO5	3	-	-	-	-	-	-	2	2	-	2	2	2	-	2	2	2
Avg	3	-	-	-	-	-	-	2	2	-	2	2	2	-	2	2	2

**1-Low; 2-Medium; 3-High; '-' No correlation**

**பாடத்திட்டப் பொதுநோக்கம்**

- கற்றல் வழி சிந்தனைத் திறனையும், கருத்து வெளிப்பாட்டுத் திறனையும், மேம்படுத்துதல்.
- அரசுத் தேர்வுகளுக்கு மாணவர்களை ஆயத்தமாக்குதல்; திறனாய்வு நோக்கை மேம்படுத்துதல்.
- இலக்கியங்களின் வழி மனித வாழ்வியலை உணர்த்துதல்.
- இன்புறுத்தல் மற்றும் அறிவுறுத்தல் நிலைகளில் இலக்கியங்களின் பங்களிப்பை உணர்த்துதல்.
- இளைய தலைமுறையினருக்கு அற உணர்வு மற்றும் வாழ்வியல் மதிப்புகளை அறிவுறுத்துதல்.

**பாடத்திட்டப் பயன்விளைவு**

- இந்தியக் குடியரிமைப்பணி முதலான போட்டித் தேர்வுகளில் இடம்பெறுகின்ற, 'தமிழ் இலக்கிய வரலாறு' குறித்த முழுமையான அறிமுகத்தை அடைதல்.
- தொல்லியல், கல்வெட்டியல் மற்றும் ஓலைச்சுவடியியல் சார்ந்த ஆவணத் தேடலுக்குரிய ஆய்வு மனப்பான்மையுடன், இலக்கியங்களை அணுகுதல்.
- 'அறிவியல் தமிழ்'; 'இணையத் தமிழ்' போன்ற தமிழின் வளர்ச்சித் துறைகள் சார்ந்த திறன் மேம்பாடு பெற்றிருத்தல்.
- வேலைவாய்ப்புக்குரிய வகையில் படைப்பாக்கத்திறன் முதலான மொழி ஆளுமை பெற்றிருத்தல்;
- சமூக வாழ்வியல் மதிப்புகளைப் பேணுவதற்குக் கருவியாக உள்ள இலக்கியங்களை நாடுகின்ற மனப்பான்மை வளர்ச்சி

**தமிழிலக்கியத் திறனாய்வு  
போட்டித் தேர்வு நோக்கில் தமிழிலக்கியங்கள்**

**அலகு - 1**

**10 மணிநேரம்**

**அற இலக்கியம்**

- திருக்குறள் - தெரிந்து தெளிதல் - கூடா நட்பு.  
நாலடியார் - பெரியாரைப் பிழையாமை - (பாடல் 161 முதல் 165 வரை பொறுப்பர் என்றெண்ணி, பொன்னே கொடுத்தும், அவமதிப்பும், விரிநிற நாகம், எம்மை அறிந்திலீர்)
- பழமொழி நானூறு - (பாடல் 151 முதல் 155 வரை - (வேளாண்மை செய்து, ஒன்றால் சிறிதால், இனி யாரும் இல்லாதார், தற்றுாக்கி, வீங்குதோள்)
- இனியவை நாற்பது - (பாடல் 31 முதல் 35 வரை) - (அடைந்தார் துயர்கூறா, கற்றறிந்தார் கூறும், ஊர்முனியா, எல்லிப் பொழுது, ஒற்றினான் ஒற்றி)
- சிறுபஞ்சமூலம் - பூவாது காய்க்கும் (20) - பூத்தாலும் காயா மரம் உள (21).

ஏலாதி (1 முதல் 5 பாடல்கள் வரை - சென்ற புகழ், கொலை புரியான், தவம் எளிது, இடர் தீர்த்தல், தனக்கு என்னும்)

முதுரை - (11 முதல் 15 வரை) - (பண்டு முளைப்பது, மடல் பெரிது, கவையாகி கொம்பாகி, கான மயிலாட, வேங்கை வரிப்புலி) முதலான பாடல்களைத் திறனாய்தல்.

## அலகு - 2

08 மணிநேரம்

காப்பியங்கள்

- ஐம்பெருங்காப்பியங்கள்
- சிலப்பதிகார வழக்குரைகாதை
- ஐஞ்சிறு காப்பியங்கள்
- சூளாமணி அரசியற் சருக்கம்
- பிற்கால இலக்கியங்கள்  
(பாரதசக்தி மகாகாவியம், இராவண காவியம்)

சிற்றிலக்கியங்கள்

- குற்றாலக்குறவஞ்சி - பிள்ளைத்தமிழ் - பரணி - தூது - உலா  
முதலான இலக்கியங்களைத் திறனாய்தல்.

## அலகு - 3

10 மணிநேரம்

தமிழின் தொன்மை

- திராவிடமொழிகள் தொடர்பான செய்திகள்

தமிழ் வளர்த்த சான்றோர்

- உ.வே.சாமிநாதர் - தெ.பொ.மீனாட்சி சுந்தரனார் - சி. இலக்குவனார்  
ஆகியோரின் தமிழ்ப்பணி - தேவநேயப்பாவாணர் - அகரமுதலி -  
பாவலரேறு பெருஞ்சித்திரனார் - ஜி.யு.போப் - வீரமாமுனிவர்  
ஆகியோரின் தமிழ்த்தொண்டு.

## அலகு - 4

10 மணிநேரம்

தமிழ்வளர்த்த சான்றோர்

- மகாகவி பாரதியார் - பாவேந்தர் பாரதிதாசன் - கவியரசு  
கண்ணதாசன் - பட்டுக்கோட்டை கல்யாணசுந்தரனார் - கவிஞர்  
முடியரசன் - நாமக்கல் கவிஞர் - சிலம்புச் செல்வர் ம.பொ.சிவஞானம்  
ஆகியோரின் தமிழ்ப்பணி - சாகித்ய அகாதெமி விருது பெற்ற  
இலக்கியங்கள்.

## அலகு - 5

10 மணிநேரம்

கடிதப்பயிற்சி

1. நண்பனுக்குப் பாராட்டுக் கடிதம்
2. தமிழ் மன்ற நிகழ்வை நாளிதழில் வெளியிட வேண்டி  
பதிப்பாசிரியருக்கு விண்ணப்பம்
3. கருத்தரங்கப் பங்கேற்பிற்கான அனுமதி வேண்டி விண்ணப்பம்
4. வேலை வேண்டி விண்ணப்பம்

இலக்கணம்

- எழுத்து - குறில், நெடில் வேறுபாடு - லகர, ளகர, ழகர வேறுபாடு -  
னகர, ணகர வேறுபாடு - ரகர, றகர வேறுபாடு அறிதல்.  
பேச்சு வழக்குத் தொடரிலுள்ள பிழை திருத்தம் -

(எ.கா.) நேத்து மழ பேஞ்சுது – நேற்று மழை பெய்தது.

மொத்த மணிநேரம் - 48

TEXT BOOK T1 - கற்பகச் சோலை – தமிழ்ப்பாட நூல், இலக்கிய இன்பம், தமிழ்த்துறை

1. வெளியீடு, கற்பகம் உயர்கல்விக்கழகம், கோயம்புத்தூர் – 21.

பார்வை நூல்கள்

1. R1- தமிழ் இலக்கிய வரலாறு, முனைவர் கா.கோ. வேங்கடராமன், கலையக வெளியீடு, நாமக்கல்.

2. R2 - வகைமை நோக்கில் தமிழ் இலக்கிய வரலாறு, முனைவர் பாக்கியமேரி, பூவேந்தன் பதிப்பகம், சீனிவாசா சாலை, மயிலாப்பூர், சென்னை.

இணையதளம்

W1-www.tvu.org.in

W2- www.maduraitamilproject.com

இதழ்கள்

J1- International Research Journal of Indian Literature, irjil.in

J2 - International Tamil Research Journal, iorpress.in

CO, PO, PSO Mapping

CO	PO 1	PO 2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO1 0	PO1 1	PO 12	PO 13	PO 14	PO 15	PS O1	PS O2
CO1	2	3	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CO2	3	3	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CO3	2	2	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CO4	3	3	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CO5	3	2	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Average	2.6	2.6	2.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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

Instruction Hours / Week: L:4 T:0 P:0

Marks: Internal:40 External:60 Total: 100  
End Semester Exam: 3Hours

**PREREQUISITE:**

Not Required

**COURSE OBJECTIVES(CO):**

- Knowledge of contemporary drama contents of Hindi literature
- Learn novels and its techniques. The ability to read novels and express criticism about it and the ability to express social thoughts will improve
- There will also be litigation messages in Hindi and news on speech techniques

**COURSE OUTCOMES(COs):**

- Develop an interest in the appreciation of literature.
- Discuss and respond to content of a reading passage.
- Learning the literacy knowledge of Hindi specially reading and writing .
- Learning the literary knowledge specially reading and understanding of Hindi short Stories
- Learning the history of Hindi literature

<b>UNIT-I</b>	a) Story – Bade Ghar Ki Beti b) Hindi Bhasha Ka Vikas c) Novel – Ramnath, Jalpa d) Letter Writing –Personal Letter	<b>9 HOURS</b>
<b>UNIT-II</b>	a) Story – Puraskar b) Kaal Vibhajan , Char Prakar c) Ramesh Babu ,Devdeen d) Letter Writing – Leave Letter	<b>9HOURS</b>
<b>UNIT-III</b>	a) Story – Usne Kaha Tha b) Literature – Adhikaal c) Indhubhooshan, Rathna, Johra d) Letter Writing – Letter for the Publisher	<b>10 HOURS</b>
<b>UNIT-IV</b>	a) Story – Paanchminte b) Poorva Madhya Kaal c) Manibhooshan, Dhayanath, Rameshwari d) Letter Writing – Application for job	<b>10 HOURS</b>

**UNIT-V** a) Story – kafan

**10 HOURS**

- b) Reethi Kaal, Adhunik Kaal
- c) Dheen Dhayal, Manaki,
- d) Letter Writing – Complaint Letter

**TOTAL: 48 HOURS**

**REFERENCE BOOKS**

1. Story : Kahani Manjari Publisher : D.B.Hindi Prachar Sabha T.Nagar , Chennai – 600017
2. History of Hindi Literature : Hindi Sahithya ka Saral Ithihas Writer : Rajnath Sharma.A Publisher : Vinoth Pusthak Mandir Agra – 02
3. Novel : Gaban Writer : Premchandh Publisher : Rajkamal Prakashan New Delhi – 110002
4. Letter Writing : Sumitha Hindi Nibandh Aur Pathra Lekhan Writer : Sri Sharan Publisher : Kalda Publication Mukhar Ji Nagar, Delhi – 09

**CO, PO, PSO Mapping**

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PO13	PO14	PO15	PSO1	PSO2
CO1	2	3	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CO2	3	3	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CO3	2	2	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CO4	3	3	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CO5	3	2	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>Average</b>	<b>2.6</b>	<b>2.6</b>	<b>2.8</b>	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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

**PREREQUISITE:**

Not Required

**COURSE OBJECTIVE: (CO)**

- May have knowledge of the contents of primitive poetry Learn about contemporary poetry and its techniques.
- Interest in reading poetry and the ability to express social thoughts will improve
- This will help you to understand the basics of Malayalam Poetry and to understand Malayalam literature properly

**COURSE OUTCOME: (COs)**

- Get a basic knowledge of the history of Malayalam literature.
- Enhances the art and taste of Malayalam literary works
- Literary genres can be learned
- Create more to read and enjoy Malayalam poetry
- Get the basic Knowledge of poetry techniques

Unit No	PART I – MALAYALAM III	Hours
I	Poetry – Chinthavishtayaya Seetha	10
II	Poetry – Chinthavishtayaya Seetha	10
III	Poetry – Mrugasikshakan-(Murgasikshakan,Kausalya,Varavu,Vittupoku Ekalavyan,Mazha) 6 poetries	10
IV	Poetry – Mrugasikshakan-(Kayal,Karkkadakam,Bhagavatham,Vazhivakkile naikutty,Edavelayil oru nimisham,Verumoru kathu) 6 poetries	09
V	Poetry - Aayisha	09
	<b>TOTAL</b>	<b>48</b>

**Text Books:**

1. Chinthavishtayaya Seetha –Kumaranasan,Kerala Book Store Publishers.
2. Mrugasikshakan – Vijayalakshmi,DC Books, Kottayam
3. Aayisha – VayalarRamavarma - Kerala Book Store Publishers

**Reference Books:**

1. Kavitha SahithyaCharitram-Dr.M.Leelavathi (Kerala SahithyaAcademy,Trichur)
2. Kavitha Dwani-Dr.M.Leelavathi (D.C.Books, Kottayam)
3. Aadhunika SahithyacharithramPrasthanangalilude- Dr.K.M.George (D.C.Books, Kottayam)
4. Padya SahithyaCharithram – T.M.Chummar (Kerala SahithyaAcademy,Trichur)

**CO, PO, PSO Mapping**

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PO13	PO14	PO15	PSO1	PSO2
CO1	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CO2	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CO3	-	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CO4	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-
CO5	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Average	0.6	1	0.4	0.4	-	-	-	-	-	-	-	-	-	-	-	-	-

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

Instruction Hours / Week: L:4 T:0 P:0

Marks: Internal:40 External:60 Total: 100  
End Semester Exam: 3Hours

**PREREQUISITE:**

Not Required

**COURSE OBJECTIVES (CO):**

- The fundamental objective of the curriculum is to impart effective science education at the undergraduate level, exposing them to recent trends and developments in the subject.
- Creating scientific temper is another major objective of this curriculum.
- Another major thrust given here is to develop an environmental concern in all activities of the students. 'Go green', the motto of the syllabus emphasizes the urgent need to conserve nature without destruction of natural resources.

**COURSE OUTCOMES(COs) :**

- **Critical Thinking** :Take informed actions after identifying the assumptions that frame students' thinking and actions.
- **Problem Solving:** Understand and solve problems of relevance to society to meet the specified needs using the knowledge, skills and attitudes acquired.
- **Effective Communication:** Speak, read, write and listen clearly in person and through electronic media in English and in one Indian language, and make meaning of the world by connecting people, ideas, books, media and technology.
- **Effective Citizenship:** Demonstrate empathetic social concern and equity centered national development.
- **Environment and Sustainability:** Understand the issues of environmental contexts and sustainable development.

**UNIT-I**

History of Sanskrit Drama and its origin.

**10 HOURS**

**UNIT – II**

Important Sanskrit Dramas and important authors.

**10 HOURS**

**UNIT – III**

Text Prescribed: "Dutavakyam" of Bhasa, (First half)

**10 HOURS**

**UNIT – IV**

Text Prescribed: "Dutavakyam" of Bhasa, (Second half)

**9 HOURS**

**UNIT – V**

Translation: From the known passages of the above text.

**9 HOURS**

**TOTAL: 48 HOURS**

Drama text book available at :

- "Dutavakyam of Bhasa" R.S.Vadhyar and Sons Palghat, Kerala.

**CO, PO, PSO Mapping**

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	2	2	3	-	-	-	-	-	-	-	-	-	-	-
CO2	2	3	3	-	-	-	-	-	-	-	-	-	-	-
CO3	3	2	2	-	-	-	-	-	-	-	-	-	-	-
CO4	3	2	2	-	-	-	-	-	-	-	-	-	-	-
CO5	2	2	3	-	-	-	-	-	-	-	-	-	-	-
<b>Average</b>	<b>2.6</b>	<b>2.6</b>	<b>2.8</b>	-	-	-	-	-	-	-	-	-	-	-

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

**PREREQUISITE:**

Not Required

**COURSE OBJECTIVES (CO):**

The objectives of this course are

- To enable students to recognize native accent and usage of French language.
- To help students to become autonomous and self-directed French language learners.
- To produce entrepreneurs among students by making them French language trainers and take communicative French to schools and colleges around.

**COURSE OUTCOMES (COs):**

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

COs	Course Outcomes	Blooms Level
CO1	Identify new words by employing vocabulary building techniques.	Apply
CO2	Build correct sentence structures and grammatical patterns in oral and written communication	Apply
CO3	develop the ability to speak French language with the way of pronunciation.	Understand
CO4	Follow leadership, work ethics and management principles	Analyze
CO5	express values and skills gained through effective communication to other disciplines.	Analyze

**Unité – I**

**9 HOURS**

- a) Leçon – Vivre la ville,, Visiter une ville
- b) Communication - Indiquer le chemin
- c) Grammaire - La comparaison, Les prépositions avec les noms géographiques, Les pronoms personnels COI
- d) Lexique – La ville, Les lieux de la ville, Les transports
- e) Culture – Le français : une ouverture sur le monde

**Unité – II**

**9 HOURS**

- a) Leçon -• On vend ou on garde ?
- b) Communication - Demander des renseignements touristiques
  - Grammaire - Le pronom y (le lieu), La position des pronoms compléments Les verbes du premier groupe en -ger et -cer,
- c) Les verbes ouvrir et accueillir
- d) Lexique - Les points cardinaux, Les prépositions de lieu (2)
- e) Culture – Le français : une ouverture sur le monde

**Unité – III**

**10 HOURS**

- a) Leçon - b) Communication- permettre, défendre.
- b) Grammaire - La formation du pluriel (2)
- c) Les adjectifs de couleur, Les adjectifs beau, nouveau, vieux
- d) Lexique - Les couleurs, Les formes, Les me

- e) culture – les grandes fleuves en Français.

**Unité – IV**

**10 HOURS**

- a) Leçon – Félicitations !
- b) Communication - Décrire un objet
- c) Grammaire - Les pronoms relatifs qui et que, L'imparfait, Les verbes connaître, écrire, mettre et vendre
- d) Lexique – Les mesures, L'informatique DIRE, LIRE, ECRIRE , Les sons [E] / [O] / [œ]
- e) Culture –Les lieux de la ville.

**Unité - V**

**10 HOURS**

- a) Leçon -En voyage !
- b) Communication -• Présenter ses vœux, Faire une réservation
- c) Grammaire - Les pronoms démonstratifs,La question avec Inversion,Les
- d) adverbess de manière,
- e) Lexique -Les voyages,L'aéroport et l'avion,Les fêtes
- f) Culture –Noël

**TOTAL: 48 HOURS**

**REFERENCE BOOKS:**

1. Cocton Marie –Noëlle , Duplex Dorothée, Heu Elodie , Kasazian Emilie, Ripaud Delphine, **Saison 1- Méthode de français**, Didier, paris.2015.
2. Cocton Marie – Noëlle, Duplex, Heu Elodie, Kasazian Emilie ,Ripaud Deldphin, **Saison 1 – Cahier d'activites** , Dider ,Paris , 2015
3. Anne Akyüz,Bernadette Bazelle- Shahmael,JoëlleBonenfant, **Marie- Françoise Gliemenn,Les exercices de grammaire,Hachette FLE, Paris,2005**

**TEXT BOOKS**

1. Christian Beaulieu, **Je pratique**, Exercices de grammaire A1, Dider,Paris,2015
2. Nathalie BIE, philippe SANTINAN,Grammaire pour adolescents-250 exercices, CLE International , Paris , 2005

**WEBSITES :**

- <http://enseigner.tv5monde.com/>
- [bonjourdumonde.com /exercices/contenu/le – francais-du- tourisme.html](http://bonjourdumonde.com/exercices/contenu/le-francais-du-tourisme.html)
- <http://www.bonjurdefrance.com/>
- <https://www.lepointdufle.net/>

**CO, PO, PSO Mapping**

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PO13	PO14	PO15	PSO1	PSO2
CO1	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CO2	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CO3	-	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CO4	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-
CO5	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>Average</b>	<b>3</b>	<b>2.5</b>	<b>2</b>	<b>2</b>	-	-	-	-	-	-	-	-	-	-	-	-	-

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

Instruction Hours / Week: L:3 T:0 P:0

Marks: Internal:40 External:60 Total: 100  
End Semester Exam: 3Hours

**PREREQUISITE:**

Not required

**COURSE OBJECTIVES (CO):**

- To improve the ability to comprehend and interpret spoken information accurately.
- To cultivate effective communication for various professional and personal scenarios.
- To develop student entrepreneurs by training them as English language instructors and promoting communicative English in schools and colleges.

**Course Outcomes (COs):**

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

COs	Course Outcomes	Blooms Level
CO1	Identify new words by employing vocabulary building techniques.	Remember
CO2	Build correct sentence structures and grammatical patterns in oral and written communication	Apply
CO3	Develop the ability to speak English language with the correct pronunciation.	Apply
CO4	Follow leadership, work ethics and management principles	Understand
CO5	express values and skills gained through effective communication to other disciplines.	Understand

**UNIT - I - LISTENING**

**8 HOURS**

Listening Comprehension-Listening for Specific Information- Interpreting Charts and Diagrams

**UNIT - II - SPEAKING**

**7 HOURS**

Essentials of effective Communication- **Telephone Skills:** Understanding Telephone Conversation- Handling Calls-Leaving Messages-Making Requests-Giving Instructions and Orders.

**UNIT - III - READING**

**7 HOURS**

Reading with a purpose-Skimming and Scanning-Locating Main Points-Reading Critically- Sequencing of Sentences-Reading Comprehension

**UNIT - IV - WRITING**

**7 HOURS**

Descriptive and Narrative-Safety Instructions- Suggestions-Expansion of Abbreviations- Spellings Rules - Translation- Translating Short Sentences and Passages from English to Tamil

**UNIT - V VOCABULARY**

**7 HOURS**

Synonyms-Antonyms-Prefixes-Suffixes- Idioms- Different Types of English-Homonyms and Homophones (British and American)

**TOTAL: 36 HOURS**

**TEXT BOOK:**

1. Board of Editors (2024). *Proficiency in Communication I*. Karpagam Academy of Higher Education

**REFERENCE BOOKS:**

1. Martin's, St (2013). *Oxford Handbook of Writing: Handbook of Writing*. Cambridge University Press.
2. Wren & Martin, (2008). *High School English Grammar & Composition*, S.Chand & Company Ltd,Board of Editors,
3. Krashen, Stephen D (1982). *Principles and Practice in Second Language Acquisition*, New York:Pergamon Press

**WEB SITES:**

1. <https://www.scribbr.com/>
2. <https://www.quora.com/>

**CO, PO, PSO Mapping**

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PO13	PO14	PO15	PSO1	PSO2
CO1	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CO2	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CO3	-	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CO4	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-
CO5	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>Average</b>	<b>3</b>	<b>2.5</b>	<b>2</b>	<b>2</b>	-	-	-	-	-	-	-	-	-	-	-	-	-

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

Instruction Hours / Week: L:5 T:1 P:0

Marks: Internal:40 External:60 Total: 100  
End Semester Exam: 3Hours

**PREREQUISITE:**

- Corporate financial structures, valuation methods for shares and goodwill, insolvency and liquidation.

**COURSE OBJECTIVES (CO):**

- Recall the basic concepts and terms of corporate accounting.
- Understand accounting procedures for raising funds, redemption, and preparing financial statements for joint stock companies.
- Develop skills in evaluating goodwill, shares, and understanding the liquidation of company

**COURSE OUTCOMES (COs):**

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

COs	Course Outcomes	Blooms Level
CO1	Understand procedures for issue of shares and debentures	Understand
CO2	Learn procedures for amalgamation and absorption of companies	Understand
CO3	Understand accounting treatment for reconstruction of companies	Apply
CO4	Prepare financial statement of companies	Understand
CO5	Learn procedure for liquidation of companies	Understand

**UNIT – I SHARE CAPITAL AND DEBENTURES**

**17 HOURS**

Share – Meaning – Types – Share Vs Stock - Issue of Shares- at Par and Premium– Allotment of Shares on Pro-rata Basis - Forfeiture and Reissue of Shares- Full and Partial Re-issue-Capital Reserve on Forfeiture. Debentures-Meaning –Types.

**UNIT – II AMALGAMATION AND ABSORPTION OF COMPANIES**

**17 HOURS**

Accounting for Amalgamation (AS14) – Types of Amalgamation- Method of Purchase Consideration and Accounting for Absorption of Companies.

**UNIT – III RECONSTRUCTION OF COMPANIES**

**17 HOURS**

Accounting for Reconstruction of Companies- External and Internal (Excluding preparation of scheme).

**UNIT – IV FINANCIAL STATEMENT OF COMPANIES**

**17 HOURS**

Financial Statement of Companies as per Schedule III of Companies Act, 2013- Statement of Profit and Loss - Balance Sheet–Cash Flow Statement.

**UNIT – V LIQUIDATION OF COMPANIES**

**16 HOURS**

Liquidation of Companies –Calculation of Liquidator’s Remuneration-Preparation of Statement of Affairs and Deficiency Accounts– Preparation of Liquidators Final Statement of Accounts.

**Note:** Distribution of Marks - 20% theory and 80% problem

**TOTAL: 84 HOURS**

**TEXT BOOKS :**

1. Reddy and Moorthy (2018), Corporate Accounting, Margham Publications, Chennai.
2. M.C. Shukla, T.S. Grewal, and S.C. Gupta (2016) Advanced Accounts, Vol.II. 20<sup>th</sup> Edition, S. Chand & Co., New Delhi.

**REFERENCE BOOKS:**

1. Dr. S N Maheshwari, CA Sharad K Maheshwari & Dr. Suneel K Maheshwari (2018), Corporate Accounting, 6<sup>th</sup> Edition, Vikas Publishing, New Delhi.
2. Jain, S.P. and K.L. Narang (2015), Corporate Accounting, 8<sup>th</sup> Edition, Vol. I, Kalyani Publishers, New Delhi.
3. Jain, S.P. and K.L. Narang (2014), Advanced Accountancy (Corporate Accounting), 8<sup>th</sup> Edition, Vol. I, Kalyani Publishers, New Delhi.
4. CA & Dr. P C Tulsian & CA Bharat Tulsian (2016), Corporate Accounting, 2<sup>nd</sup> Edition, S.Chand and Sons, New Delhi

**Websites:**

1. [https://swayam.gov.in/nd2\\_imb20\\_mg32/preview](https://swayam.gov.in/nd2_imb20_mg32/preview)

**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	2	1	2	-	-	-	-	2	-	-	-	-	3	1	1
CO2	3	-	2	2	3	-	-	-	-	2	-	-	-	-	2	1	1
CO3	3	2	2	3	3	2	2	-	-	3	-	-	-	2	3	1	1
CO4	3	2	3	3	3	2	2	-	-	3	-	-	-	-	3	1	1
CO5	3	2	3	3	3	2	2	-	-	2	-	-	-	-	3	1	1
<b>Average</b>	<b>3</b>	<b>1.7</b>	<b>2.4</b>	<b>2.4</b>	<b>2.8</b>	<b>2</b>	<b>2</b>	<b>-</b>	<b>-</b>	<b>2.4</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>2</b>	<b>2.8</b>	<b>1</b>	<b>1</b>

**1 - Low, 2 - Medium, 3 - High, ‘-’ - No Correlation**

Instruction Hours/week: L:5 T:0 P:0

Marks: Internal:40 External:60 Total:100  
End Semester Exam: 3 Hours

**PREREQUISITE:**

- A foundational understanding of relational database concepts and basic programming skills.

**COURSE OBJECTIVES (CO) :**

- Understand the characteristics of SQL and learn various search strategies for solving SQL queries.
- Explore different ways of designing software agents and representing knowledge in SQL.
- Gain knowledge about the applications of MySQL.

**COURSE OUTCOMES (CO's):**

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

Cos	Course outcomes	BloomsLevel
CO1	Understand the various characteristics and features of SQL	Understand
CO2	Apply different search strategies in SQL to retrieve and manipulate data	Apply
CO3	Representation of SQL queries using appropriate techniques	Apply
CO4	Understand methodologies for designing software agents in database contexts.	Understand
CO5	Practical Applications of MySQL in real world scenario	Apply

**UNIT I - INTRODUCTION TO SQL**

**12 HOURS**

SQL: Background – Data Definition – Basic Structure of SQL Queries – Set Operations –Aggregate Functions – Null Values – Nested Sub-Queries – Views – Modification of the Database.

**UNIT II - PL/SQL**

**12 HOURS**

PL/SQL: A programming Language: History - Fundamentals – Block Structure – Comments – Data Types – Other Data Types – Declaration – Assignment operation – Bind variables – Substitution Variables – Printing

**UNIT III – OPERATORS AND CONTROL STRUCTURE**

**12 HOURS**

Arithmetic Operators, Control Structures and Embedded SQL: Control Structures – Nested Blocks – SQ L IN PL/SQL – Data Manipulation Transaction Control statements.

**UNIT IV- PL/SQL CURSORS AND EXCEPTIONS**

**12 HOURS**

PL/SQL Cursors and Exceptions: Cursors – Implicit & Explicit Cursors and Attributes – Cursor FOR loops – SELECT...FOR UPDATE – WHERE CURRENT OF clause – Cursor with Parameters – Cursor Variables – Exceptions – Types of Exceptions.

**UNIT V – PL/SQL COMPOSITE DATA TYPES:**

**12 HOURS**

PL/SQL Composite Data Types: Records – Tables – Varrays. Named Blocks: Procedures Functions – Packages - Triggers – Data Dictionary Views.

**TOTAL:60 HOURS**

**TEXT BOOKS:**

1. Database System Concepts, Abraham Silberschatz, Henry F.Korth, S.Sudarshan, TMH 5<sup>th</sup> Edition

2. Fundamentals of Database Management Systems, Alexis Leon, Mathews Leon, Vijay Nicole Imprints Private Limited.

### REFERENCE BOOKS:

1. Database Systems Using Oracle, Nilesh Shah, 2<sup>nd</sup> edition, PHI. UNIT-IV: Chapters 10 & 11  
UNIT-V: Chapters 12, 13 & 14.

2. Alexis Leon & Mathews Leon, "Essential of DBMS", 2nd reprint, Vijay Nicole Publications, 2009.

### Websites

1. <https://www.w3schools.com/sql>
2. <https://www.tutorialspoint.com/sql>
3. <https://livesql.oracle.com>

### 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	2
CO2	3	-	1	-	-	-	-	-	-	-	-	-	-	-	2	1	2
CO3	3	-	1	-	-	-	-	-	-	-	-	-	-	-	2	1	2
CO4	3	-	-	-	1	-	-	-	-	-	-	-	-	-	-	1	2
CO5	3	-	-	-	-	-	-	-	-	-	1	-	-	-	2	1	2
<b>Avg</b>	<b>3</b>	<b>-</b>	<b>1</b>	<b>-</b>	<b>1</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>1</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>2</b>	<b>1</b>	<b>2</b>

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

Instruction Hours / Week: L:5 T:1 P:0

Marks: Internal:40 External:60 Total: 100  
End Semester Exam: 3Hours

**PREREQUISITE:**

Financial reporting standards (like IFRS), the preparation of financial statements, transactional accounting for assets, revenue recognition principles, and financial statement analysis techniques.

**COURSE OBJECTIVES (CO):**

- Build knowledge and understanding of various accounting standards and the conceptual framework (based on IFRS and Ind. AS) applicable to corporate entities.
- Classify business transactions and create financial statements according to generally accepted accounting principles, highlighting the role of accounting in society and decision-making.
- Construct financial statements for individual entities for shareholder use.

**COURSE OUTCOMES (COs):**

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

<b>Cos</b>	<b>Course Outcomes</b>	<b>Blooms Level</b>
CO1	Understand the use and application of the IFRS (and Ind. AS in India)	Understand
CO2	Apply accounting principles on business	Apply
CO3	Classify the business transactions and create financial statements according to generally accepted accounting Principles	Analyze
CO4	Construct financial statements for individual entities for the use of shareholders.	Apply
CO5	Analyse the financial statements of companies	Evaluate

**UNIT - I USE OF IFRS AND IND. AS**

**18 HOURS**

Understand the application of IFRS in India through the use of Ind. AS – the applicability of Ind. AS – the mapping of Ind. AS to IFRS – differences between IFRS & Ind. AS – the list of IFRS (Ind. AS) – Process of transition to IFRS for the first time -Overview of applicable U.S GAAP accounting guidance - Divergence between U.S GAAP and IFRS.

**UNIT - II APPLICATION OF IFRS (IND. AS) FOR TRANSACTIONS**

**18 HOURS**

Asset based standards such as PPE, Intangible assets, borrowing costs, impairment of assets, inventory & biological assets, provisions & contingencies, events after reporting period, accounting policies, estimates & errors.

**UNIT - III REVENUE RECOGNITION**

**16 HOURS**

Understand the principles of recognising revenue of the business – revenue recognition for goods, services, interest and dividends – concept of deferred income and accounting thereof.

**UNIT - IV PREPARATION & PRESENTATION OF FINANCIAL STATEMENTS**

**16 HOURS**

Thorough knowledge of preparation & presentation of financial statements by incorporating the effects of the accounting standards (covered in module 2 & 3 only) - statement of profit or loss and other comprehensive income – statement of financial position (Balance sheet).

**UNIT - V ANALYSIS OF FINANCIAL STATEMENTS****16 HOURS**

Analyse the financial performance of an entity using the financial statements – use of ratios in performance evaluation – according to statement – according to function – according to purpose - trend analysis – comparison with competition or industry average.

**TOTAL : 84 HOURS****TEXT BOOKS**

1. Subramanyam, K. R. and John, J.W. (2014), —Financial Statement Analysis, 10<sup>th</sup> Edition, Tata McGraw Hill, New Delhi.
2. Stephen H. Penman (2014) —Financial Statement Analysis and Security Valuation, 4<sup>th</sup> Edition, Tata McGraw Hill, New Delhi.

**REFERENCE BOOKS**

1. M.S Narasimhan (2016), Financial Statement Analysis, 1<sup>st</sup> Edition, Cengage Learning India Private Limited, New Delhi.
2. Charles H. Gibson (2013), Financial Statement Analysis, 13<sup>th</sup> edition, Cengage Learning India Private Limited, New Delhi.
3. Lawrence Revsine, Daniel Collins, Bruce Johnson, Fred Mittelstaedt, Leonard Soffer (2015), Financial Reporting and Analysis, 6 Edition, McGraw-Hill Education, New Delhi.
4. Deepa Agarwal (2017), Financial Reporting and Auditors Responsibility, 2<sup>nd</sup> edition, Bloomsbury Professional India, New Delhi.
5. Deepa Agarwal (2018), The Law & Practice of Financial Reporting and Auditor's Responsibilities under Companies Act, 2013, 1<sup>st</sup> Edition, Bloomsbury Professional India, New Delhi

**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	-	-	-	-	-	-	-	-	-	-	-
CO2	3	-	-	1	-	-	-	-	-	-	-	-	-	-	-	2	2
CO3	3	-	-	-	2	-	-	-	-	-	-	-	-	-	-		
CO4	3	1	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1
CO5	3	-	1	1	2	-	-	-	-	-	-	-	-	-	-	1	1
AVG	3	1	1	2	2	1	-	-	-	-	-	-	-	-	-	1.3	1.3

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

Instruction Hours/week: L:0 T:0 P:4

Marks: Internal:40 External:60 Total:100  
End Semester Exam: 3 Hours

**PREREQUISITE:**

- Basic knowledge of relational database concepts, including tables, keys, and normalization.

**COURSE OBJECTIVES (CO):**

- Understand and apply the fundamentals of Data Definition Language (DDL), Data Manipulation Language (DML), Data Control Language (DCL), and Transaction Control Language (TCL) in database management.
- Implement and analyze various database constraints and create complex queries for real-world scenarios involving diverse data sets.
- Develop PL/SQL blocks and triggers for exception handling and automation of database operations.

**COURSE OUTCOMES (CO's):**

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

COs	Course outcomes	BloomsLevel
CO1	Define and use DDL and DML commands to create and manipulate database structures.	Understand
CO2	Apply DCL and TCL commands to manage database security and transaction integrity.	Apply
CO3	Implement primary key, foreign key, check, unique, null, and not null constraints in database tables.	Apply
CO4	Analyze complex SQL queries to retrieve and analyze data from multiple database tables.	Analyze
CO5	Develop PL/SQL triggers and blocks to automate tasks and handle exceptions in database applications.	Analyze

**List of Programs**

- |  |                |
|--|----------------|
| 1. To implement Data Definition language   | <b>3 HOURS</b> |
| 2. To implement Data Manipulation language | <b>3 HOURS</b> |
| 3. To implementation on DCL and TCL        | <b>3 HOURS</b> |
| 4. To implement the following Constraints  | <b>5 HOURS</b> |

1. Primary key
2. Foreign Key
3. Check
4. Unique
5. Null
6. Not null

- |  |                |
|--|----------------|
| 5. Create a table with following fields: | <b>5 HOURS</b> |
|--|----------------|

**Employee table:**

Field name	Constraint	Type	Size
Employee no	Primary key	Character	6
Employee_name		Character	30
Address		Character	25

Designation		Character	15
Dob		Date	
Gender	Check	Character	1
Doj		Date	
Salary		Number	10,2

**Queries:**

1. Display name of the employees whose salary is greater than “10,000”.
2. Display the details of employees in ascending order according to Employee Code
3. Display the details of employees earning the highest salary
4. Display the names of employees who earn more than “Ravi”.
6. Create table named Student with following fields and insert the values: **4 HOURS**

Field name	field type	field size
Student Name	Character	15
Gender	Character	6
Roll No.	Character	10
Department Name	Character	15
Address	Character	25
Percentage of marks	Number	4,2

**Queries:**

1. Calculate the average mark percentage of the students
2. Display the names of the students whose percentage marks are greater than 80%
3. Display the details of the students who got the highest percentage of marks
4. Display the details of the students whose mark percentage between 50 and 70
5. Display the details of the students whose mark percentage is greater the mark percentage of Roll No=12CA01
7. Create a table with following fields:

**Staff table:**

**5 HOURS**

Field name	Constraint	Type	Size
Staff no	Primary key	Character	6
Staff name		Character	30
Dob		Date	
Dept code	Foreign key	Character	4
Designation		Character	15
Basic		Number	7,2

**Department table:**

Field name	constraint	Type	Size
Dept code	Primary key	Character	4
Dept_name		Character	30

Execute the following queries:

1. To list the staff who joined 2 years back.
2. To list the staff in computer science dept.
3. To list the staff\_name and the dept\_name in which he/she works.
4. To list the maximum and minimum salary in each dept.
5. To list the dept along with the total amount spent on salary
6. To list the name of the employees who draw the salary more than the average salary.

8. Create a table with the following fields:

4 HOURS

**Book table:**

Field name	Constraint	Type	Size
Access_no	Primary key	Character	6
Title		Character	30
Author		Character	30
Publisher		Character	30
Subject		Character	10
Price		Number	6,2

Execute the following queries:

1. The title of C and C++ books.
2. The books written by a particular author.
3. The books which costs between Rs.300/- and Rs.500/-
4. The number of books available in each subject.
5. The books in the decreasing order of the cost.

9. Create a table with the following fields:

4 HOURS

**Account table:**

Field name	Constraint	Type	Size
Acc_no	Primary key	Number	4
Cust_name		Varchar2	30
Branch_name		Varchar2	30
Cust_city		Varchar2	30

**Borrower table:**

Field name	Constraint	Type	Size
Acc_no	Foreign key	Number	30
Branch_name		Varchar2	30
Amount		Number	8,2

Write queries to perform different types of Join.

10. Write a PL/SQL block to create and handle User Defined Exception

**Clientmaster**

4 HOURS

Field name	Constraint	Type	Size
Client_id		Number	6
Client_name		Varchar2	30
Address		Varchar2	50
Phone		Number	10
Balance		Number	10,2

11. Create table with following fields:

4 HOURS

**Product table:**

Field name	Constraint	Type	Size
Product_code	Primary key	Varchar2	7
Product_name		Varchar2	30
Price		Number	6,2
Quantity		Number	4

**Vendor table:**

Field name	Constraint	Type	Size
Vendor name		Varchar2	30
Vendor address		Varchar2	30
Product_code	Foreign Key	Varchar2	7

Create a Trigger to fire when the Record is deleted and inserted.

12. Write a PL/SQL trigger to update the records while deleting the one record in another table.

**Voters\_master:****4 HOURS**

Field name	Constraint	Type	Size
Voterid	Primary key	Number	5
Name		Varchar2	30
Ward_no	Primary Key	Number	4
Dob		Date	
Address		Varchar2	150

**New\_list**

Field name	Constraint	Type	Size
Voterid		Number	5
Ward_no		Number	4
Name		Varchar2	30
Description		Character	50

**TOTAL : 48 HOURS****TEXT BOOK**

1. ElmasriRamez and Navathe Shaman, 2019. 'Fundamentals of Database System', Pearson Education , Sixth Edition.

**REFERENCE BOOKS**

- Ivan Bayross,2018.'SQL, PL/SQL the Programming Language of Oracle Paperback',BPB Publication, Fifth Edition.
- Abraham Silberschatz , Henry F.Korth and S.Sudarshan,2018.'Database System Concepts', Tata Mc Graw Hill,Sixth Edition.
- ParteekBhatia,2016.'PL/SQL for Beginners: A Simplified Approach (Kindle Edition).
- C.J.Date, A.Kannan and S.Swamynathan, 2015."An Introduction to Database Systems", Pearson Education ,Eighth Edition.

**Websites**

- <http://www.tutorialspoint.com/sql/sql-rdbms-concepts.htm>
- <https://www.javatpoint.com/dbms-tutorial>
- <https://www.javatpoint.com/dbms-sql-introduction>
- [www.databasedir.com](http://www.databasedir.com)
- <http://plsql-tutorial.com/>

## 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	2
CO2	3	-	2	-	-	-	-	-	-	-	-	-	-	-	1	1	2
CO3	3	-	2	-	-	-	-	-	-	-	-	-	-	-	-	1	2
CO4	3	-	-	1	-	-	-	-	-	-	-	-	-	-	-	1	2
CO5	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	2
<b>Average</b>	<b>3</b>	<b>-</b>	<b>2</b>	<b>1</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>1</b>	<b>1</b>	<b>2</b>

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

**PREREQUISITE:**

- Not Required

**COURSE OBJECTIVES (CO):**

- Understand the principles of community engagement and development.
- Explore rural development programs and government schemes.
- Gain practical skills in financial literacy and banking assistance for communities.

**COURSE OUTCOMES (COs):**

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

COs	Course Outcomes	Blooms Level
CO1	Describe the principles of community engagement and development, and the role of self-help groups	Understand
CO2	Analyze rural development programs and evaluate government schemes for community involvement	Analyze
CO3	Examine ethics in community research and assess the impact of rural poverty and COVID-19 on migrant laborers	Analyze
CO4	Create financial literacy awareness programs for local communities.	Apply
CO5	Assist the elderly and illiterate individuals with banking instruments by applying knowledge of banking processes	Apply

**UNIT- I INTRODUCTION AND PRINCIPLES**

**8 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**

**8 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**

**8 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: 24 HOURS**

**TEXT BOOKS:**

1. Scott S Macdonald and Timothy W Koch (2011)., *Management of Banking*, New Delhi: Thomson Publishing,
2. Donald R Fraser, Benton E Gup and James W Kolari (2010)., *Commercial Banking, The Management of Risk*, Wiley,

**REFERENCE BOOKS**

1. Peter S Rose(2012)., *Commercial Bank Management*, New Delhi: McGraw Hill/Irwin,
2. David H Buzzell(2010)., *Principles of Banking, USA: American Bankers Associations*, 2010.
3. *Principles of Community Engagement*, (2011).2<sup>nd</sup> Edition, NIH Publication No. 11-7782.

## WEBSITES:

1. <https://youtu.be/-SQK9RGBt7o>
2. [https://www.uvm.edu/sites/default/files/community\\_engagement\\_handout.pdf](https://www.uvm.edu/sites/default/files/community_engagement_handout.pdf) (Community Engagement)
3. [https://www.atsdr.cdc.gov/communityengagement/pce\\_concepts.html](https://www.atsdr.cdc.gov/communityengagement/pce_concepts.html) (Perspectives of Community)
4. <https://egyankosh.ac.in/bitstream/123456789/59002/1/Unit1.pdf> (community concepts)
5. <https://sustainingcommunity.wordpress.com/2013/07/09/ethics-and-community-engagement/>(Ethics of community engagement)
6. <https://www.preservearticles.com/sociology/what-are-the-essential-elements-of-community/4558> (Elements of Community)

## 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	3	3	-	-	-	2
CO2	-	-	-	-	-	3	-	-	-	-	2	3	3	-	-	-	2
CO3	-	-	-	-	-	3	-	-	-	-	2	3	3	-	-	-	2
CO4	-	-	-	-	-	3	-	-	-	-	2	3	3	-	-	-	2
CO5	-	-	-	-	-	3	-	-	-	-	2	3	3	-	-	-	2
<b>Avg</b>	-	-	-	-	-	<b>3</b>	-	-	-	-	<b>2</b>	<b>3</b>	<b>3</b>	-	-	-	<b>2</b>

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

**PREREQUISITE**

- Basic communication skills, interpersonal skills, and an awareness of workplace etiquette and professionalism.

**COURSE OBJECTIVES (CO):**

- Explore career alternatives prior to graduation by integrating theory and practice, and assess interest and abilities in the chosen field of study.
- Develop work habits, attitudes necessary for job success, and essential communication, interpersonal, and interview skills.
- Build a record of work experience.

**COURSE OUTCOMES(COs):**

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

COs	Course Outcomes	Blooms Level
CO1	Explore career alternatives prior to graduation & integrate theory and Practice	Understand
CO2	Assess interest and abilities in their field of study	Evaluate
CO3	Develop work habits and attitudes necessary for job success	Apply
CO4	Develop communication, interpersonal and other critical skills in the job interview process	Apply
CO5	Build a record of work experience	Create

**PO,CO,PSO Mapping**

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

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

**பாடத்திட்டப் பொதுநோக்கம்**

- கற்றல் வழி சிந்தனைத் திறனையும், கருத்து வெளிப்பாட்டுத் திறனையும், மேம்படுத்துதல்.
- ஆய்வுநோக்கை மேம்படுத்துதல்.
- இலக்கியங்கள் உணர்த்தும் வாழ்வின் நுட்பமான பகுதிகளை உணர்த்துதல்.
- மனித மனத்தினைப் பக்குவப்படுத்துதலில் இலக்கியம் தரும் பங்கினை உணர்த்துதல்.
- வளர்ந்து வரும் சமூகத்தில் அறஉணர்வு, பண்பாடு போன்றவை குறித்து அறிவூட்டல். அரசுத் தேர்வுகளுக்கு மாணவர்களை ஆயத்தமாக்குதல்.

**பாடத்திட்டப் பயன்விளைவு**

- இந்தியக் குடியரிமைப்பணி முதலான போட்டித் தேர்வுகளில், விருப்பப்பாடமாக இடம்பெறுகின்ற, 'தமிழ் இலக்கிய வரலாறு' குறித்த முழுமையான அறிமுகம் பெற்றிருத்தல்.
- கல்வெட்டியல், ஓலைச்சுவடியியல் மற்றும் தொல்லியல் சார்ந்த ஆவணத் தேடலுக்குரிய ஆய்வு மனப்பான்மையுடன், இலக்கியங்களை அணுகுதல்.
- தமிழின் வளர்ச்சித்துறையாகிய, 'அறிவியல்தமிழ்', 'இணையதமிழ்' குறித்த பன்னோக்கு அணுகுமுறையிலான ஆய்வுச்சிந்தனை மேம்பாடு.
- வேலைவாய்ப்புக்குரிய சுயதிறன் மேம்பாட்டுடன், படைப்பாக்கத்திறன் மேம்பாடும் பெற்றிருத்தல்.
- சமுதாய மற்றும் வாழ்வியல் மதிப்புகளைப் பேணுவதற்குக் கருவியாக இலக்கியங்களை நாடுகின்ற மனப்பான்மை வளர்ச்சி, மொழிபெயர்ப்புத்துறை சார்ந்த வேலைவாய்ப்புத்திறன் பெற்றிருத்தல்

**தமிழர் நாகரிகமும் பண்பாடும்**

**அலகு - 1 தமிழக வரலாறும் நாட்டுப்பிரிவுகளும்**

**10 மணிநேரம்**

பழைய கற்காலம் - புதிய கற்காலம் - இரும்புக்காலம் - சங்க கால மூவேந்தர் நாடுகள் (சேர, சோழ, பாண்டியர்கள்) - பிற்கால நாட்டுப் பிரிவுகள் - பல்லவர் நாடு - நடு நாடு - தொண்டை நாடு - கொங்கு நாடு.

**அலகு - 2 தமிழகத்தில் கலை இலக்கிய வளர்ச்சி**

**10 மணிநேரம்**

காலந்தோறும் தமிழகத்தில் கட்டடக்கலை - கோயிற்கலை - கூத்துக்கலை - நாடகக்கலை - ஆடற்கலை - சிற்பக்கலை - ஓவியக்கலை வளர்ச்சி - தமிழ் வளர்ச்சிக்குப் பக்தி இலக்கியங்களின் பங்களிப்பு.

**அலகு - 3 தமிழர்களின் வணிகம்**

**08 மணிநேரம்**

சங்க கால வணிகம் - தமிழர்களின் அயல்நாட்டு வணிகத்தொடர்பு - கிரேக்கர்கள் - ரோமர்கள் - மௌரியர்களுடனான வணிகத்தொடர்பு - நாணயங்கள்.

**அலகு - 4 தமிழகப் பண்பாட்டில் கொங்கு நாடு**

**10 மணிநேரம்**

கொங்கு நாடும் அதன் வரலாறும் - அரசர்கள் - சிற்றரசர்கள் - கொங்கு நாட்டு எல்லைகள் - கொங்கு நாடும் பிற பகுதிகளும் - புலவர்கள் - இலக்கியங்கள் - பண்பாட்டுச் சிறப்பு.

அரிக்கமேடு – ஆதிச்சநல்லூர் – அழகன்குளம் – கீழடி – கொடுமணல் – கொற்கை – மயிலாடும்பாறை – கங்கை கொண்ட சோழபுரம் போன்ற ஆய்வுக்களங்களில் கிடைத்துள்ள தமிழக வரலாற்றுக் குறிப்புகள்.

மொத்த மணிநேரம் - 48

TEXT BOOK T1 - கற்பகச் சோலை – தமிழ்ப்பாட நூல், இலக்கிய இன்பம், தமிழ்த்துறை  
1. வெளியீடு, கற்பகம் உயர்கல்விக்கழகம், கோயம்புத்தூர் – 21.

பார்வை நூல்கள்

1. R1- தமிழக வரலாறு மக்களும் பண்பாடும் – கே.கே.பிள்ளை – உலகத் தமிழாராய்ச்சி

நிறுவனம், தரமணி, சென்னை.

2. R2 - தமிழக வரலாறும் பண்பாடும் – வே.தி.செல்வம் – மணிவாசகர் பதிப்பகம், பிராட்வே,

சென்னை.

இணையதளம்

W1-www.tvu.org.in

W2- www.maduraitamilproject.com

இதழ்கள்

J1- International Research Journal of Indian Literature, irjil.in

J2 - International Tamil Research Journal, iorpress.in

CO, PO, PSO Mapping

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PO13	PO14	PO15	PSO1	PSO2
CO1	2	3	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CO2	3	3	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CO3	2	2	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CO4	3	3	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CO5	3	2	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Average	2.6	2.6	2.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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

Instruction Hours / Week: L:4T:0 P:0

Marks: Internal:40 External:60 Total: 100  
End Semester Exam: 3Hours

**PREREQUISITE:**

Not Required

**COURSE OBJECTIVES(CO):**

- Develop an interest in the appreciation of short stories
- Comprehend the grammatical structures and sentence making
- Understand the language and developing English to Hindi translation skill

**COURSE OUTCOMES(COs):**

- Learning the literacy knowledge of Hindi specially reading and writing .
- Learning the literary knowledge specially reading and understanding of Hindi short Stories
- Learning the history of Hindi literature.
- The ability to translate from Hindi to English and from English to Hindi will be improved.
- Develop a skill in spoken Hindi.

**UNIT-Ia) Poetry – Lakshmanan ke Bare Me** **9 HOURS**

- b) Bharath ka Bhagya
- c) Essay – Dhokha
- d) Translation – Lesson – 1 to 3

**UNIT-IIa) Poetry – Soorpanakha Ki Visheshatha** **9 HOURS**

- b) Bahu Ki Vida
- c) Essay – Jabaan
- d) Translation– Lesson – 4 to 6

**UNIT-IIIa) Poetry– Kavya Ke AdharPar** **10 HOURS**

- b) Reed Ki Haddi
- c) Essay – Kya Janvar Bhee Sochthi Hai
- d) translation– Lesson – 7 to 9

**UNIT-IVa) Khanda Kavya Ke Adhar Par Panchavati** **10 HOURS**

- b) Rajputni Ka Badhala
- c) Essay – Shradha-Bhakthi
- d) Translation– Lesson – 10 to 12

**UNIT-Va) Kavya Ke Adhar Par Prakruthik Varnan** **10 HOURS**

- b) Bheem Aur Raakshas
- c) Essay – Adhunik Nari
- d) Translation – Lesson –13 to 15

**TOTAL: 48 HOURS**

**REFERENCE BOOKS:**

1. Poetry : Panchavati Writer : Mythili Sharan Gupta  
Publisher : Bharathiya Sahithya Sangrah Kanpur – 208002, Uttar Pradesh
2. One Act Play : Adarsh Akanki Publisher : D.B.Hindi Prachar Sabha  
T. Nagar, Chennai – 600017, Tamil Nadu
3. Essay : Nibandh Nishchay Editor : Dr.Sharadh Ranjan  
Publisher : Hindi Sahithya Sammelan Prayag 12.Sammelan Marg, Illahabadh
4. Translation : Anuvadh Abhyas – III Publisher : D.B.Hindi Prachar Sabha  
T.Nagar, Chennai – 600017, Tamil Nadu

### CO, PO, PSO Mapping

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PO13	PO14	PO15	PSO1	PSO2
CO1	3	3	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CO2	3	3	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CO3	3	3	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CO4	3	2	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CO5	3	2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>Average</b>	<b>3</b>	<b>2.6</b>	<b>2.6</b>	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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

Instruction Hours / Week: L:4T:0 P:0

Marks: Internal:40 External:60 Total: 100  
End Semester Exam: 3Hours

**PREREQUISITE:**

Not Required

**COURSE OBJECTIVE:(CO)**

- Knowledge of contemporary drama contents of Malayalam literature
- Learn Screen play and its techniques. The ability to read drama and express criticism about it and the ability to express social thoughts will improve
- There will also be litigation messages in Malayalam and news on speech techniques Able to write articles on their own and improve their creative skills.

**COURSE OUTCOME: ( COs )**

- Get a basic knowledge of drama
- Can read and critique Screenplay
- Create interest in art literature courses
- The hope of writing a Drama or a Screen Play
- The idea of creating new works and critique knowledge will improve.

Unit No.	PART I – MALAYALAM IV	Hours
I	Screen Play - Perumthachan	10
II	Screenplay - Perumthachan	10
III	Drama - Saketham	10
IV	Drama - Saketham	09
V	Drama - Saaketham	09
	<b>TOTAL</b>	<b>48</b>

**Text Books:**

1. Perumthachan – M.T.VasudevanNair,DC Books
- 2.Saketham – C.N.SreekandanNair,DC Books

**Reference Books:**

1. MalayalaNatakaSahithyaCharithram. G Sankara Pillai (Kerala SahithyaAkademi, Trissur)
2. Malayala NatakaSahithyaCharithram, Vayala Vasudevan Pillai (Kerala SahithyaAkademi Thrissur).
3. Natakam- OruPatanam (C.J. SmarakaPrasanga Samithi, Koothattukulam) Nataroopacharcha, Kattumadam Narayanan (NBS, Kottayam)
4. Chalachithrasameeksha–Vijayakrishanan. Cinemayude Paadangal-VisakalanavumVeekshanavum – Jose-K.Manual

### 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	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CO3	-	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CO4	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-
CO5	-	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>Ave rage</b>	<b>0.6</b>	<b>1.8</b>	-	<b>0.4</b>	-	-	-	-	-	-	-	-	-	-	-	-	-

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

Instruction Hours / Week: L:4T:0 P:0

Marks: Internal:40 External:60 Total: 100  
End Semester Exam: 3Hours

**PREREQUISITE:**

Not Required

**COURSE OBJECTIVES(CO):**

- The fundamental objective of the curriculum is to impart effective science education at the undergraduate level, exposing them to recent trends and developments in the subject.
- Creating scientific temper is another major objective of this curriculum.
- Another major thrust given here is to develop an environmental concern in all activities of the students. 'Go green', the motto of the syllabus emphasizes the urgent need to conserve nature without destruction of natural resources.

**COURSE OUTCOMES(COs) :**

- **Critical Thinking** :Take informed actions after identifying the assumptions that frame students' thinking and actions.
- **Problem Solving**: Understand and solve problems of relevance to society to meet the specified needs using the knowledge, skills and attitudes acquired.
- **Effective Communication**: Speak, read, write and listen clearly in person and through electronic media in English and in one Indian language, and make meaning of the world by connecting people, ideas, books, media and technology.
- **Effective Citizenship**: Demonstrate empathetic social concern and equity centered national development.
- **Environment and Sustainability**: Understand the issues of environmental contexts and sustainable development

<b>UNIT-I</b>	<b>10 HOURS</b>
Introduction to Sanskrit Lyrics and erotic literature.	
<b>UNIT – II</b>	<b>10 HOURS</b>
Devotional Literature, Important works	
<b>UNIT – III</b>	<b>10 HOURS</b>
Krishnakarnamrita of Leelasuka (Second Section only)	
<b>UNIT – IV</b>	<b>9 HOURS</b>
Grammar – Past tense, Declension of personal pronouns	
<b>UNIT – V</b>	<b>9 HOURS</b>
Simple sentences from Sanskrit Self Teacher	
	<b>TOTAL: 48 HOURS</b>

**Drama text Book Available at :**

- Krishnakarnamrita of Leelasuka Sri Ramakrishna Mud, Mylapore, Chennai.

## CO, PO, PSO Mapping

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	2	3	3	-	-	-	-	-	-	-	-	-	-	-
CO2	3	2	3	-	-	-	-	-	-	-	-	-	-	-
CO3	2	3	3	-	-	-	-	-	-	-	-	-	-	-
CO4	3	2	2	-	-	-	-	-	-	-	-	-	-	-
CO5	3	2	2	-	-	-	-	-	-	-	-	-	-	-
<b>Average</b>	<b>2.6</b>	<b>2.6</b>	<b>2.8</b>	-	-	-	-	-	-	-	-	-	-	-

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

**PREREQUISITE:**

Not Required

**COURSE OBJECTIVES (CO):**

The objectives of this course are:

- To provide the students with an ability to build and enrich their communication skills.
- To help them think and write imaginatively and critically.
- To strengthen their professional skills.

**COURSE OUTCOMES (COS):**

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

COs	Course Outcomes	Blooms Level
CO1	make the students proficient communicators in French.	Apply
CO2	develop learners' ability to understand French.	Understand
CO3	understand the nuances of listening, speaking and reading French.	Understand
CO4	prepare the learners to face situations with confidence and to seek employment in the modern globalized world.	Apply
CO5	build the students' ability to listen and to speak French better.	Apply

**Unite – I**

**9 HOURS**

- a) Leçon – On fait le ménage !
- b) Communication - Protester et réagir
- c) Grammaire - Le présent progressif, Les pronoms possessifs
- d) La phrase négative (3)
- e) Lexique –• Le logement,La maison,Les pièces Culture

**Unite – II – Paris et ses symboles**

**9 HOURS**

- a) Leçon –À propos de logement
- b) Communication–Exprimer l'intérêt et l'indifférence
- c) Grammaire –Quelques adjectifs et pronoms indéfinis Les verbes lire, rompre et se plaindre
- d) Lexique –Meubles et équipement,Les tâches ménagères
- e) Culture –Les fêtes et les traditions en France

**Unite – III**

**10 HOURS**

- a) Leçon–Tous en forme ! Accidents et catastrophes
- b) Communication – Raconter au passé
- c) Grammaire– Le passé composé et l'imparfait Le passé récent, L'expression de la durée,
- d) Lexique– Le corps humain : l'extérieur,Le corps humain : l'intérieur Les maladies et les remèdes
- e) Culture – La longue histoire de la Francophonie

**Unite – IV**

**10 HOURS**

- a) Leçon – Faire ses études à l'étranger
- b) Communication - Exprimer la peur et rassurer
- c) Grammaire - Les adjectifs et les pronoms indéfinis : rien, personne, aucun Les verbes dire, courir et mourir
- d) Lexique – Les accidents,Les catastrophes naturelles
- e)Culture - Les jeux de la Francophonie .

**Unite – V****10 HOURS**

- a) Leçon – Bon voyage !La météo  
 b) Communication - Exprimer son opinion, Parler de la météo  
 c) Grammaire -• Les pronoms démonstratifs neutres  
 Le futur simple, Situer dans le temps  
 d) Lexique – Le système scolaire, Les formalités pour partir à l'étranger La météo  
 e) Culture- Le français hors de France

**TOTAL: 48 HOURS****REFERENCE BOOKS:**

1. Cocton Marie –Noëlle , Duplex Dorothée, Heu Elodie , Kasazian Emilie, Ripaud Delphine, Saison1- Méthode de français, Didier, paris.2015.
2. Cocton Marie – Noëlle, Dupleix, Heu Elodie, Kasazian Emilie ,Ripaud Deldphin, Saison 1 – Cahier d'activites , Dider ,Paris , 2015
3. Anne Akyüz, Bernadette Bazelle- Shahmael, Joëlle Bonenfant, Marie- Françoise Gliemenn, Les exercices de grammaire, Hachette FLE, Paris, 2005
4. Christian Beaulieu, Je pratique, Exercices de grammaire A1, Dider, Paris, 2015
5. Nathalie BIE, philippe SANTINAN, Grammaire pour adolescents-250 exercices, CLE International , Paris , 2005

**WEBSITES :**

- <http://enseigner.tv5monde.com/>
- [bonjourdumonde.com/exercices/contenu/le – francais-du- tourisme.html](http://bonjourdumonde.com/exercices/contenu/le-francais-du-tourisme.html)
- <http://www.bonjurdefrance.com/>
- <https://www.lepointdufle.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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CO2	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CO3	-	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CO4	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-
CO5	-	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>Average</b>	<b>3</b>	<b>3</b>	<b>-</b>	<b>2</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>

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

Instruction Hours / Week: L:3T:0 P:0

Marks: Internal:40 External:60 Total: 100  
End Semester Exam: 3Hours

**PREREQUISITE:**

Not required

**COURSE OBJECTIVES(CO):**

- To provide the students with an ability to build and enrich their communication skills.
- To help them think and write imaginatively and critically.
- To strengthen their professional skills.

**Course Outcomes (COs):**

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

COs	Course Outcomes	Blooms Level
CO1	Make the students proficient communicators in English.	Apply
CO2	Develop learners' ability to understand English.	Understand
CO3	Understand the nuances of listening, speaking and reading English.	Understand
CO4	Prepare the learners to face situations with confidence and to seek employment in the modern globalized world.	Apply
CO5	Build the students' ability to listen and to speak English better.	Apply

**UNIT - I**

**8 HOURS**

Concept of Communication- Barriers to Communication- Body Language-Personality  
Development-Etiquette and Manners-Soft Skills

**UNIT - II**

**7 HOURS**

Listening Comprehension-Reading Comprehension-Paragraph Writing-Precis Writing-Collocation

**UNIT - III**

**7 HOURS**

Writing-Writing Resume and Covering Letter- Types of Letter Writing-Letter Formats-E-mail  
Writing-Writing MoU- DictoComposition--Term Paper-Book Reviews

**UNIT - IV**

**7 HOURS**

Speaking-Interview Skills-Preparing Welcome address and Vote of Thanks-Compering -

**UNIT - V**

**7 HOURS**

Punctuation Marks- Figures of Speech

**TOTAL: 36 HOURS**

**TEXT BOOK:**

1. Board of Editors (2024). *Proficiency in Communication II*, Karpagam Academy of Higher Education

**REFERENCE BOOKS:**

1. Martin's, St (2013). *Oxford Handbook of Writing: Handbook of Writing*. Cambridge University Press.
2. Wren & Martin, (2008). *High School English Grammar & Composition*, S.Chand & Company Ltd, Board of Editors.
3. Krashen, Stephen D (1982). *Principles and Practice in Second Language Acquisition*. New York:Pergamon Press.

**WEB SITES:**

1. <https://www.skillsbuilder.org/blog/top-5-speaking-skills-for-success-in-interviews>

2. <https://www.coursera.org/articles/interviewing-skills>

**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	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CO3	-	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CO4	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-
CO5	-	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>Average</b>	<b>3</b>	<b>3</b>	-	<b>2</b>	-	-	-	-	-	-	-	-	-	-	-	-	-

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

**Instruction Hours/week: L:4 T:0 P:0**

**Marks: Internal:40 External:60 Total:100**

**End Semester Exam: 3 Hours**

**PREREQUISITE:**

- Basic understanding of programming concepts.

**COURSE OBJECTIVES (CO) :**

- Understand the fundamentals of programming, including variables, conditional statements, iterative executions, and methods, as well as object-oriented programming concepts in Java such as defining classes and using class libraries.
- Use the Java SDK environment to create, debug, and run simple Java programs.
- Apply Java across various technologies and platforms, and understand the fundamentals of packages, access modifiers, and interfaces in Java.

**COURSE OUTCOMES (CO's):**

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

<b>COs</b>	<b>Course outcomes</b>	<b>BloomsLevel</b>
CO1	Obtain knowledge of the structure and model of the Java programming language.	Understand
CO2	Use the Java programming language for various programming technologies	Understand
CO3	Develop software in the Java programming language	Application
CO4	Evaluate user requirements for software functionality required to decide whether the Java programming language can meet user requirements	Analyse
CO5	Use the certain technologies by implementing them in the Java programming language to solve the given problem	Apply

**UNIT I - INTRODUCTION TO JAVA**

**8 HOURS**

History of JAVA, The Java Buzzwords, Evolution of JAVA, An Overview of Java, Compiling and Executing a Java Program, Variables, Constants, Keywords Data Types, Operators (Arithmetic, Logical and Bitwise) and Expressions, Comments, Doing Basic Program Output, Decision Making Constructs (conditional statements and loops) and Nesting.

**UNIT II - ARRAYS, STRINGS AND I/O**

**10 HOURS**

Object-Oriented Programming Overview Principles of Object-Oriented Programming, Defining & Using Classes, Controlling Access to Class Members, Class Constructors, Method Overloading, Class Variables & Methods, Objects as parameters, final classes, Object class, Garbage Collection-Creating & Using Arrays (One Dimension and Multi-dimensional), Referencing Arrays Dynamically.

### UNIT III - INHERITANCE

10 HOURS

Inheritance: (Single Level and Multilevel, Method Overriding, Dynamic Method Dispatch, Abstract Classes), Interfaces and Packages, extending interfaces and packages, Package and Class Visibility, Using Standard Java Packages (util, lang, io, net), Wrapper Classes.

### UNIT IV - EXCEPTION HANDLING AND DATABASE CONNECTIVITY

10 HOURS

Exception types, uncaught exceptions, throw, built-in exceptions, creating your own exceptions; Multi-threading: The Thread class and Runnable interface, creating single and multiple threads, Thread prioritization, synchronization and communication, suspending/resuming threads. Accessing and manipulating databases using JDBC.

### UNIT V – JAVA GUI PROGRAMMING USING SWING

10 HOURS

Working with Graphics, Incorporating Images & Sounds. Event Handling Mechanisms, Listener Interfaces, Adapter and Inner Classes. The design and Implementation of GUIs using Swing components of Java Foundation Classes such as labels, buttons, text fields, layout managers, menus, events and listeners; Graphic objects for drawing figures such as lines, rectangles, ovals, using different fonts.

**TOTAL HOURS:48 HOURS**

#### TEXT BOOKS:

1. Cay S. Horstmann, Gary Cornell, 2019. Core Java 2 Volume 2 - Advanced Features, 9<sup>th</sup> Edition, Pearson.

#### REFERENCE BOOKS:

1. E. Balaguruswamy, 2019. Programming with Java, 6<sup>th</sup> Edition, McGraw Hill.
2. Ben Evans and David Flanagan, 2019. Java in a Nutshell, Seventh Edition. O'Reilly Media, Inc.
3. Cay S. Horstmann, Gary Cornell, 2018. Core Java 2 Volume-1 ,11<sup>th</sup> Edition, Prentice Hall.
4. Paul Deitel, Harvey Deitel, 2018, Java: How to Program (Early Objects), 11<sup>th</sup> Edition, Prentice Hall.

#### WEBSITES:

1. <https://docs.oracle.com/java>
2. <https://www.tutorialspoint.com/java/index.htm>
3. <https://www.w3schools.com/java/>

#### 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	-	2	1	3	3	3	-	-	-	-	-	-	-	-	-	-	2
CO3	-	-	3	-	3	-	-	-	2	-	-	-	-	-	-	-	2
CO4	-	-	-	3	-	1	3	1	1	-	-	-	-	-	-	-	2
CO5	-	-	-	-	3	3	3	1	2	-	-	2	-	-	-	-	2
<b>Average</b>	<b>3</b>	<b>2</b>	<b>1.6</b>	<b>3</b>	<b>3</b>	<b>2.3</b>	<b>3</b>	<b>1</b>	<b>1.6</b>	<b>-</b>	<b>-</b>	<b>2</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>2</b>

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

**PREREQUISITE:**

- Assessee, previous year, assessment year, residential status, and various types of income defined under the Income Tax Act, 1961.

**COURSE OBJECTIVES (CO):**

- Understand the basic concepts of the Income Tax Act, 1961, and the computation of salary and house property income.
- Know the provisions for computing income from other sources and become familiar with the laws for calculating total income and tax liability.
- Assess the total income and tax liability of individuals.

**COURSE OUTCOMES(COs):**

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

COs	Course Outcomes	Blooms Level
CO1	Understand the basic Concept of Income Tax Act, 1961.	Understand
CO2	Impart the knowledge on computation of salary and house property income	Understand
CO3	Know the provisions of computation of income from other sources.	Apply
CO4	Familiar with the laws pertaining to computation of total income and tax liability	Apply
CO5	Assess the total income and tax liability of individual	Evaluate

**UNIT-I BASIC CONCEPTS**

**14 HOURS**

An Overview of Income Tax Act, 1961 - Introduction - Important Definitions- Income - Agricultural Income - Assessee - Previous Year - Assessment Year - Residential Status - Basis of Charge - Scope of Total Income - Tax Rates in accordance with the applicable Finance Act for the relevant assessment year - Exempted Income u/s 10.

**UNIT- II COMPUTATION OF INCOME FROM SALARY AND HOUSE PROPERTY**

**15 HOURS**

Salary –Meaning – Allowances – Perquisites - Profits in lieu of Salary - Deductions against Salary - Incomes exempt from Tax. House Property - Chargeability - Owner of house property - Determination of Annual Value - Deduction from Net Annual Value - Unrealized Rent – Exemptions - Computation of Income from House Property.

**UNIT- III COMPUTATION OF INCOME – PROFITS AND GAINS FROM BUSINESS AND PROFESSION**

**15 HOURS**

Profits and Gains from Business and Profession - Business and Profession – An Overview – Chargeability - Profits and Losses of Speculation Business - Deductions Allowable - Expenses Disallowed - Deemed Profits u/s 41 - Maintenance of Accounts.

## UNIT- IV COMPUTATION OF INCOME FROM CAPITAL GAIN AND INCOME FROM

### OTHER SOURCES

14 HOURS

Capital Gain: Chargeability - Capital Gains - Capital Assets & Transfer - Types of Capital Gains - Mode of Computation of Capital Gains - Exemptions and Deduction. Taxation of Dividend - Provisions relating to Gifts – Deductions -Other Miscellaneous Provisions. Exemptions/Deduction -

## UNIT - V COMPUTATION OF TOTAL INCOME AND TAX LIABILITY

14 HOURS

Computation of Gross Total Income - Set Off and/or Carry Forward of Losses: Rebate and Relief - Income's not included in Total Income - Tax holidays - Clubbing of Income - Aggregation of Income.– Individual Tax Rate – Deduction under Sec. 80 – Computation of Total Income and Tax Liability of an Individual.

**TOTAL : 72 HOURS**

**Note:** Distribution of marks - 30% theory and 70% problems

### TEXT BOOK:

1. Gaur and Narang (2021), Income Tax Law and Practice, 51<sup>st</sup> Edition, Kalyani Publishers, Chennai.

### REFERENCE BOOKS:

1. Dr. H.C Malhotra, Dr. S P Goyal (2021), Income Tax Law and Practice, 61<sup>th</sup> Edition, Sathya Bawan Publication, New Delhi.
2. Dr. Girish Ahuja, Dr. Ravi Gupta (2018), Direct Taxes Law and Practises, 10<sup>th</sup> Edition Wolters Kluwer India Pvt. Ltd, New Delhi.
3. CA Atin Harbhajanka (Agarwal) (2018), Income Tax Law and Practice, 2<sup>nd</sup> Edition Bharat Law House Pvt. Ltd, New Delhi.
4. Dr. Vinod.K.Singhania, Dr Kapil Singhania (2018), Direct Taxes Law and Practice, Taxmann Publication Pvt. Limited, New Delhi.
5. Monica Singhania Vinod K Singhania (2020), Students Guide to Income Tax including GST, 61<sup>st</sup> Edition, Taxmann Publication Pvt. Limited, New Delhi.
6. Direct Tax Law and Practice (2018), The Institute of Company Secretaries of India, MP Printers.

### WEBSITES:

<https://www.coursera.org/learn/international-taxation>

### 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	-	-	-	-	-	-	3	2	-	3	-	3	1	1
CO2	3	-	-	3	3	-	-	-	-	3	-	-	3	-	3	1	1
CO3	3	-	-	3	3	-	-	-	-	3	-	-	3	-	3	1	1
CO4	3	-	-	3	3	-	-	-	-	3	2	-	3	-	3	1	1
CO5	3	-	2	3	3	-	-	-	-	3	2	-	3	-	3	2	2
<b>AVG</b>	<b>3</b>	<b>-</b>	<b>2</b>	<b>3</b>	<b>3</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>3</b>	<b>2</b>	<b>-</b>	<b>3</b>	<b>-</b>	<b>3</b>	<b>1.2</b>	<b>1.2</b>

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

**PREREQUISITE:**

- Students should be familiar with various types of securities like stocks, bonds, derivatives, money market instruments such as Treasury bills and commercial paper, mortgage-backed securities and high-yield bonds.

**COURSE OBJECTIVES(CO):**

- Understand the overview of the investment company industry and apply relevant funding strategies.
- Analyze and interpret financial statements and operations of investment companies.
- Evaluate the effectiveness of tools used in investment companies and analyze financial statement reports.

**COURSE OUTCOMES(COs):**

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

COs	Course Outcomes	Blooms Level
CO1	Understand Overview of Investment Company Industry.	Understand
CO2	Analyze and interpret the financial statements Operations.	Analyze
CO3	Evaluate the results of tools applied and interpret the result.	Evaluate
CO4	Apply the funding strategies applicable to Investment companies.	Apply
CO5	Analyse the report of financial statement	Analyse

**UNIT I OVERVIEW OF INVESTMENT COMPANY INDUSTRY**

**12 HOURS**

Introduction: Meaning, Definition and Classification. Types of Investment Company Fair Value ASC 820 - Organization Providing Services to Investment: The Investment Adviser - The Distributor - The Custodian - The Transfer Agent - The Administrator. Regulations - Financial Reporting to shareholders - Accounting Rules and Policies - Effective Date of Transaction.

**UNIT II INVESTMENT COMPANIES AND FUND**

**12 HOURS**

Investment companies and Fund – Overview: Fund Administration - Hedge Fund – Defining the Hedge Fund - Types of Hedge Fund - Private Equity Funds - Venture capital fund. Domestic and offshore Hedge fund – Hedge fund strategy – Size of the Hedge fund market – Reasons for Rapid Growth of Hedge fund industry – Market benefits of Hedge fund industry – Hedge fund in Different Jurisdictions: United States of America.

**UNIT III INVESTMENT ACCOUNTS AND FINANCIAL INSTRUMENTS**

**12 HOURS**

Investment Accounts and Financial Instruments - Investment Objectives and Policies - Operations and Controls. Accounting: Net Assets value per share - Basis of recording securities transactions - Valuing Investments - Valuation Techniques: The Present Value Techniques - The fair value Hierarchy. Money Market Funds - Accounting for foreign investments. Financial Instruments: Money Market Instruments - Repurchase Agreement - US Government Securities: Treasury Bills - Notes and Bonds. Securities: Mortgage-Backed Securities - High Yield Securities.

**UNIT- IV CAPITAL ACCOUNTS**

**12 HOURS**

Capital Accounts - Introduction - Operations and Controls - Accounting for Capital Structure Transactions and Distributions - Auditing Procedures - Complex Capital Structure: Operational and Accounting Issue - Financial Statement Preparation - Audit Consideration - Methods of Allocating Income, Fund- Level Expenses and Realized and Unrealized Gains/Losses - Methods of Computing Income Distributions per shares. Taxes: Introduction - Taxation of Regulated Investment Companies.

## UNIT - V FINANCIAL STATEMENT OF INVESTMENT COMPANIES 12 HOURS

Financial Statement Introduction - Comparative Financial Statement- Schedule of Investments - Statement of Operations - Financial reporting - Common fund- Categories: Legal Structure and Investment types. Income statement- Integrated reporting – equity transactions- Income measurement. Fund GAV and NAV, IRR - Capital subscription, distribution, commitments - Distribution of waterfall and Management fees - Financial statements for funds / investment companies - SAL, SOP, SOC, SCF, SOI, FiHi.

**TOTAL : 60 HOURS**

### TEXT BOOK

1. Sanjay Dhamija, —Financial Reporting and Analysis, SULTAN CHAND & SONS Educational Publishers New Delhi, First Edition: 2020.

### REFERENCE BOOKS:

1. Deepa Agarwal (2018), The Law & Practice of Financial Reporting and Auditor's Responsibilities under Companies Act, 2013, 1<sup>st</sup> edition, Bloomsbury Professional India, New Delhi
2. Deepa Agarwal (2017), Financial Reporting and Auditors Responsibility, 2<sup>nd</sup> edition, Bloomsbury Professional India, New Delhi.
3. M.S Narasimhan (2016), Financial Statement Analysis, 1<sup>st</sup> Edition, Cengage Learning India Private Limited, New Delhi.
4. Lawrence Revsine, Daniel Collins, Bruce Johnson, Fred Mittelstaedt, Leonard Soffer (2015), Financial Reporting and Analysis, 6th Edition, McGraw-Hill Education, New Delhi.
5. Subramanyam, K. R. and John, J.W. (2014), —Financial Statement Analysis, 10<sup>th</sup> Edition, Tata McGraw Hill, New Delhi.
6. Stephen H. Penman (2014) —Financial Statement Analysis and Security Valuation, 4<sup>th</sup> Edition, Tata McGraw Hill, New Delhi.
7. Charles H. Gibson (2013), Financial Statement Analysis, 13<sup>th</sup> edition, Cengage Learning India Private Limited, New Delhi.

### PO,CO,PSO Mapping

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

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

**Instruction Hours/week: L:0 T:0 P:6**

**Marks: Internal:40 External:60 Total:100**

**End Semester Exam: 3 Hours**

**PREREQUISITE:**

- Understanding of basic programming concepts, object-oriented principles

**COURSE OBJECTIVES (CO):**

- Understand the fundamentals of programming, including variables, conditional and iterative execution, methods, and object-oriented programming in Java, such as defining classes, invoking methods, and using class libraries.
- Use the Java SDK environment to create, debug, and run simple Java programs, and apply Java across various technologies and platforms.
- Understand key concepts such as packages, access modifiers, interfaces, exception handling, and AWT components and classes in Java.

**COURSE OUTCOMES (CO's):**

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

<b>COs</b>	<b>Course outcomes</b>	<b>BloomsLevel</b>
CO1	Develop the ability to implement basic mathematical algorithms and series in Java.	Understand
CO2	Acquire skills in handling arrays and performing basic operations like sum and finding maximum values.	Analyze
CO3	Gain proficiency in handling string operations and understanding the fundamental concepts of Java programming.	Apply
CO4	Develop competency in exception handling and managing errors in Java applications.	Analyze
CO5	Understand and implement multithreading and thread prioritization to manage concurrent operations in Java.	Apply

**List of Programs**

- |   |                |
|---|----------------|
| 1. Write a program to find the sum of series $1+x+x^2+x^3+\dots$  | <b>7 HOURS</b> |
| 2. To find the sum of any number of integers entered as command line arguments  | <b>7 HOURS</b> |
| 3. Write a program to find maximum and sum of an array  | <b>7 HOURS</b> |
| 4. Write a Program to generate Fibonacci Series and Factorial for a number  | <b>7 HOURS</b> |
| 5. Write a program to perform string operations   | <b>7 HOURS</b> |
| 6. Write a program to show that during function overloading, if no matching argument is found, then java will apply automatic type conversions (from lower to higher data type) | <b>7 HOURS</b> |
| 7. Write a program to an exception out of bounds, if mark is greater than 100 throw an exception  | <b>7 HOURS</b> |
| 8. Write a program —Divide by Zero that takes two numbers a and b as input, computes a/b, and invokes Arithmetic Exception to generate a message when the denominator is zero.  | <b>7 HOURS</b> |
| 9. Write a program to generate multiplication table by multithreading.  | <b>8 HOURS</b> |
| 10. Write a program to demonstrate priorities among multiple threads  | <b>8 HOURS</b> |
| <b>TOTAL : 72 HOURS</b>   |                |

**TEXT BOOKS:**

1. Cay S. Horstmann, Gary Cornell, 2019. Core Java 2 Volume 2 - Advanced Features, 9<sup>th</sup> Edition, Pearson.
2. Ben Evans and David Flanagan, 2019. Java in a Nutshell, Seventh Edition. O'Reilly Media, Inc.

**REFERENCE BOOKS:**

1. E. Balaguruswamy, 2019. Programming with Java, 6<sup>th</sup> Edition, McGraw Hill.

**WEBSITES:**

1. <https://docs.oracle.com/java>
2. <https://www.tutorialspoint.com/java/index.htm>
3. <https://www.w3schools.com/java/>

**CO, PO, PSO Mapping:**

Cos	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PO13	PO14	PO15	PSO1	PSO 2
CO1	3	2	-	-	3	-	-	2	-	-	-	-	-	-	-	-	-
CO2	3	2	-	-	3	2	-	-	-	-	-	-	-	-	-	-	-
CO3	3	3	-	-	3	2	-	1	-	-	-	-	-	-	-	-	-
CO4	3	2	-	-	2	-	-	1	-	-	-	-	-	-	-	-	-
CO5	3	3	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-
<b>Avg</b>	<b>3</b>	<b>2.4</b>	-	-	<b>2.4</b>	<b>2</b>	-	<b>2</b>	-	-	-	-	-	-	-	-	-

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

**PREREQUISITE:**

Not Required

**COURSE OBJECTIVES (CO):**

- Learn key concepts and algorithms in data encryption, and demonstrate the application of block encryption modes and hashing algorithms in real-life scenarios.
- Examine various cyber security threats and hacker techniques to evaluate risks and develop strategies for preventing unauthorized access.
- Understand universal human values and their role in promoting harmony and happiness in personal and interpersonal relationships, while assessing the connection between cyber security and personal values.

**COURSE OUTCOMES (COs):**

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

COs	Course Outcomes	Blooms Level
CO1	Describe key concepts and algorithms in data encryption, like DES and AES.	Remember
CO2	Use different block cipher modes and hash functions (e.g., MD5, SHA) in real scenarios for secure data.	Apply
CO3	Analyze cyber security threats and evaluate hacker techniques (like SQL injection), suggesting countermeasures.	Analyze
CO4	Combine human values with cyber security to promote personal and social harmony and happiness.	Create
CO5	Critically assess the state of cyber security and its connection to personal values and aspirations.	Evaluate

**UNIT - I INTRODUCTION TO SECURITY**

**2 HOURS**

Data Encryption Standard-Block cipher principles-block cipher modes of operation-Advanced Encryption Standard (AES)-Triple DES-Blowfish-RC5 algorithm.

**UNIT - II PUBLIC KEY CRYPTOGRAPHY AND HASH ALGORITHMS**

**2 HOURS**

Principles of public key cryptosystems-The RSA algorithm-Key management - Diffie Hellman Key exchange- Hash functions-Hash Algorithms (MD5, Secure Hash Algorithm)

**UNIT - III FUNDAMENTALS OF CYBER SECURITY**

**2 HOURS**

How Hackers Cover Their Tracks- Fraud Techniques- Threat Infrastructure- Techniques to Gain a Foothold (Shellcode, SQL Injection, Malicious PDF Files)- Misdirection, Reconnaissance, and Disruption Methods.

**UNIT - IV INTRODUCTION OF UNIVERSAL HUMAN VALUES**

**3 HOURS**

Purpose and motivation for the course, recapitulation from universal human values I. Self-exploration-what is it? – its content and process; ‘Natural Acceptance’ and Experiential Validation- as a process for self-exploration. Continuous Happiness and prosperity. A look at basic human Aspiration. Right understanding, Relationship and physical Facilities-the basic requirements for fulfillment of aspirations of every human being with their correct priority. Understanding Happiness and prosperity correctly- A critical appraisal of the current scenario. Method of fulfill the above human aspirations: understanding and living in harmony at various levels.

## UNIT - V UNDERSTANDING HARMONY IN THE HUMAN BEING – HARMONY IN MYSELF

3 HOURS

Understanding human being as a co-existence of the sentiment ‘I’ and the material ‘Body’. Understanding the needs of self (‘I’) and ‘Body’ – sukha and Suvidha. Understanding the body as an instrument of ‘I’ (I being the doer, seer and enjoyer). Understanding the characteristics and activities of ‘I’ and harmony in ‘I’. Understanding the harmony of I with the Body: Sanyam and health; correct appraisal of physical needs, meaning of prosperity in detail. Programs to ensure Sanyam and health.

**TOTAL: 12 HOURS**

### TEXT BOOKS:

1. Gaur,R.R, Sangal,R and Bagaria,G.P,(2010). A foundation course in Human Values and professional Ethics, Excel books, New Delhi.
2. Schumacher. E.F, Small is Beautiful: Economics as If People Mattered,Perennial Library.
3. Cecile Andrews, (2006). Slow is Beautiful, New Society Publishers.
4. William Stallings, “Cryptography and Network Security”, Pearson Education, 6<sup>th</sup> Edition,2013.

### REFERENCE BOOKS:

1. Joseph Cornelius Kumarappa,(Digitized 30 Oct 2019). The Economy of Permanence.
2. Mahatma Gandhi, (1983). The Story of My Experiments with Truth.
3. Maulana Abul Kalam Azad, (2017). India Wins Freedom, Create Space Independent Publishing Platform.
4. Romain Rolland, (1952). The Life of Vivekananda and the Universal Gospel,Advaita ashrama.
5. Charles P. Pfleeger Shari Lawrence Pfleeger Jonathan Margulies, Security in Computing, 5<sup>th</sup> Edition, Pearson Education, 2015

### WEB SITES:

1. <http://www.arvindguptatoys.com/arvindgupta/gandhiexperiments.pdf>
2. <http://www.sanipanhwar.com/India%20Wins%20Freedom%20%20Maulana%20Abul%20Kalam%20Azad>
3. <https://estudentdavedanta.net/The-Life-Of-Vivekananda-And-The-Universal-Gospel.pdf>
4. Web resources from NDL Library,
5. E-content from open-source libraries

### CO, PO, PSO Mapping

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO 9	PO10	PO11	PO12	PO13	PO14	PO15	PSO1	PSO2
CO1	1	-	2	1	-	-	-	-	-	-	-	3	-	-	2	-	-
CO2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	2	3	2
CO3	1	-	-	-	2	-	-	-	-	-	-	-	-	-	2	-	-
CO4	1	-	-	-	-	-	3	-	-	-	-	-	-	-	3	-	1
CO5	1	-	-	3	-	-	-	-	-	-	-	-	-	-	3	2	1
Avg	1	-	2	2	2		3	-	-	-	-	3	-	-	2.4	2.5	1.3

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

**PREREQUISITE:**

- Direct costs, indirect costs, fixed costs, variable costs, marginal costing, absorption costing, and relevant costing.

**COURSE OBJECTIVES(CO):**

- Understand and explain the fundamental concepts, objectives, and advantages of cost accounting, differentiate it from financial accounting, and prepare a basic cost sheet.
- Apply material inventory control techniques, pricing methods, labor cost accounting, and control methods, including wage payment and incentive schemes, and to analyze and allocate overhead costs using activity-based costing.
- Evaluate and implement different costing methods, handle process losses, value work in progress, reconcile cost and financial accounts, identify profit differences, and conduct cost audits.

**COURSE OUTCOMES(COs):**

**Upon Completion of this course the student will be able to**

COs	Course Outcomes	Blooms Level
CO1	Understand and explain the fundamentals of cost accounting, distinguish it from financial accounting, and prepare a basic cost sheet.	Understand
CO2	Apply material inventory control techniques, pricing methods for material issues, and labor cost accounting, including wage payment and incentive schemes.	Apply
CO3	Analyze and allocate overhead costs, address under- and over-absorption issues, and apply activity-based costing for various cost items.	Analyze
CO4	Evaluate and implement costing methods like job, contract, process, and service costing, including managing process losses and valuing work in progress.	Evaluate
CO5	Analyze and reconcile cost and financial accounts using integral and non-integral systems, identify profit differences, and conduct cost audits.	Analyze

**UNIT- I COST CONCEPTS**

**20 HOURS**

Cost Accounting – Definition – Meaning and Scope – Objectives and Functions- Relationship of Cost Accounting with Financial Accounting and Management Accounting- Costing as an Aid to Management – Limitations and Objections against Cost Accounting – Cost sheet –Cost control -Cost Reduction – Cost Control Vs Cost Reduction - Tender and Quotation.

**UNIT- II MATERIAL CONTROL**

**19 HOURS**

Materials – Levels of Inventory – EOQ – Methods of Valuing Material Issues –FIFO – LIFO – Base Stock – Standard Price – Simple Average – Weighted Average Methods – Perpetual Inventory – ABC – VED Analysis – Control Over Wastages, Scrap and Spoilage.

**UNIT-III LABOUR AND OVERHEADS**

**19 HOURS**

Labour – Systems of Wage Payment – Time Rate – Piece rate – Taylor, Merrick, Piece Rate System – Incentive Schemes-Halsey – Rowan – Idle Time – Labour Turnover. Overheads – Classification– Allocation Apportionment and Absorption of Overheads – Methods of Absorption of Overheads Activity based costing.

**UNIT-IV PROCESS COSTING**

**19 HOURS**

Process Costing –Special Features– Comparison between Job Costing and Process Costing – Process

Losses – Normal Loss-Abnormal Loss –Abnormal Gain.

**UNIT-V UNIT, JOB, BATCH AND TRANSPORT COSTING**

**19 HOURS**

Unit Costing – Job Costing and Batch Costing-Comparison between Job costing and unit cost – Transport Costing – Special Features. (Simple Practical Problems).

**TOTAL: 96 HOURS**

**Note:** Distribution of marks - 20% theory and 80% problems

**TEXT BOOK :**

1. SP Jain and KL Narang, Simmi Agrawal, (2016), Cost Accounting Principles and Practice, 25thEdition, Kalyani Publishers, New Delhi.

**REFERENCE BOOKS**

1. M.N Arora, (2013) Cost Accounting – Principles and Practice, 12thEdition, Vikas Publishing, New Delhi.
2. M N Arora & Priyanka Katyal (2017), Cost Accounting, Vikas Publishing, New Delhi.
3. MinaxiRachchh & GunvantraiRachchh (2015), Cost Accounting - Methods and Techniques, Vikas Publishing, New Delhi.
4. CA Sachin Gupta (2020), Cost and Management Accounting, Taxmann Publication Pvt. Limited, Chennai
5. Charles T. Horngren, Srikant M. Datar, Madhav V.Rajan (2014), Cost Accounting – A Managerial Emphasis, 15thEdition, Pearson Education , New Delhi.

**WEBSITES:**

1. [https://swayam.gov.in/nd1\\_noc20\\_mg53/preview](https://swayam.gov.in/nd1_noc20_mg53/preview)

**CO, PO,PSO Mapping**

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PO13	PO14	PO15	PSO1	PSO2
CO1	3	-	3	-	-	-	-	-	-	-	1	-	2	-	3	2	2
CO2	3	-	3	3	-	-	-	-	-	3	-	-	-	-	3	3	2
CO3	3	-	3	3	2	-	-	-	-	3	-	-	2	-	3	1	2
CO4	3	-	3	3	2	-	-	-	-	3	-	-	-	-	3	2	1
CO5	3	-	3	3	2	-	-	-	-	3	-	-	2	-	3	1	2
<b>AVG</b>	<b>3</b>	<b>-</b>	<b>3</b>	<b>3</b>	<b>2</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>3</b>	<b>1</b>	<b>-</b>	<b>2</b>	<b>-</b>	<b>3</b>	<b>1.8</b>	<b>1.8</b>

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

**PREREQUISITE:**

Basic understanding of Investment concepts, risk-return, analysis methods, portfolio theory, and investor protection.

**COURSE OBJECTIVES:**

To make the students

1. To learn various forms of investment avenues
2. To compute risk and return and valuation of securities
3. To understand the fundamental and technical analysis
4. To evaluate their portfolios
5. To aware on investor protection measures of SEBI

**COURSE OUTCOMES (CO)**

Learners should be able to

COs	Course Outcomes	Blooms Level
CO1	Ascertain various forms of investment avenues	Understand
CO2	Computer is k and return and valuation of securities	Analyze
CO3	Understand the fundamental and technical analysis	Apply
CO4	Evaluate their portfolios	Analyse
CO5	Gain knowledge investor protection measures of SEBI	Understand

**UNIT I: INVESTMENT AND INVESTMENT AVENUES****14 HOURS**

Nature - Meaning and Scope of Investment - Importance of Investment - Factors Influencing Investment - Investment Media - Features of an Investment Programme - Investment Process - Alternative Forms of Investment - Mutual Funds.

**UNIT II: RISK AND RETURN AND VALUATION OF SECURITIES****14 HOURS**

Concept of total risk, factors contributing to total risk: default risk, interest rate risk, market risk, management risk, purchasing power risk, systematic and unsystematic risk. Risk & risk aversion. Capital allocation between risky & risk-free assets - Utility analysis. **Bond Valuation, Preference Share Valuation and Share Valuation:** Dividend discount models - no growth, constant growth (Problems).

**UNIT III: FUNDAMENTAL ANALYSIS, TECHNICAL ANALYSIS AND MARKET EFFICIENCY****15 HOURS**

EIC framework; Economic analysis: Leading, lagging & coincident macro-economic indicators, Expected direction of movement of stock prices with macroeconomic variables in the Indian context; **Industry analysis:** stages of lifecycle, Porter's five forces model, SWOT analysis, financial analysis of an industry; **Company analysis. Technical Analysis:** meaning, assumptions, difference between technical and fundamental analysis; **Price indicators** - Dow theory, Trends: resistance, support, consolidation, momentum **Charts:** line chart, bar chart, candle chart, point & figure chart **Patterns:**

head & shoulders, triangle, rectangle, flag, cup & saucer **Indicators:** moving averages. **Efficient Market Hypothesis;** Concept of efficiency: Random walk, Three forms of EMH.

#### **UNIT IV: PORTFOLIO MANAGEMENT AND PORTFOLIO THEORY**

**15 HOURS**

Portfolio Management – Portfolio creating process - Portfolio Analysis: portfolio risk and return, Markowitz portfolio model: risk and return for 2 and 3 asset portfolios, concept of efficient frontier and optimum portfolio. **Portfolio Theory:** Capital asset pricing model – Arbitrage pricing theory – assumptions, significances and limitations of each theory. **Performance Evaluation** using Sharpe's, Treynor's and Jensen's measures. Meaning – needs – Sharpe's performance measures – Treynor's Performance Index – Jensen's Performance Index – their significance and limitations – Portfolio revision (Problems)

#### **UNIT V: INVESTOR PROTECTION**

**14 HOURS**

Role of SEBI and Stock Exchanges in Investor Protection - Investor Grievances and their Redressal System, Insider Trading, Investors' Awareness and Activism.

**TOTAL: 72 HOURS**

**Note:** Distribution of marks - 80% theory and 20% problems

#### **SUGGESTED READINGS:**

1. Prasanna Chandra, (2017), *Investment Analysis and Portfolio Management*, 5<sup>th</sup> Edition, McGraw Hill
2. S. Kevin (2015), *Security Analysis and Portfolio Management*, 2<sup>nd</sup> Edition, PHI, New Delhi
3. Dhanesh Kumar Khatri (2010), *Investment Management and Security Analysis – Text and Cases*, 2<sup>nd</sup> Edition, Laxmi Publications, New Delhi
4. M. Ranganatham, R. Madhumathi (2011), *Security Analysis and Portfolio Management*, 2<sup>nd</sup> Edition, Pearson Education
5. Zvi Bodie, Alex Kane, Alan Marcus, Pitabas Mohanty, (2017), *Investments*, 10<sup>th</sup> Edition, McGraw-Hill
6. <https://www.coursera.org/specializations/investment-management>

**PREREQUISITE:**

- Basic understanding of financial systems, economics, and the functioning of financial institutions.

**COURSE OBJECTIVES (CO):**

- Understand the scope and functions of financial services, including both fund-based and non-fund-based activities, and the challenges faced by the Indian financial services industry.
- Gain insights into mutual funds, their types, importance, and the role they play in the Indian financial market.
- Learn the concept of venture capital, its financing stages, exit modes, and the role of angel funding in supporting new businesses.

**COURSE OUTCOMES**

Upon Completion of this course the student will be able to

COs	Course Outcomes	Blooms Level
CO1	Understand the key financial services, their functions, and the challenges faced by the Indian financial industry.	Understand
CO2	Gain knowledge about mutual funds, their organization, selection criteria, and trends in the Indian market.	Apply
CO3	Learn the process of venture capital financing, the importance of angel funding, and the challenges in the venture capital scenario.	Analyze
CO4	Understand the concept of factoring, forfeiting, and derivatives, and analyze their types and benefits in financial markets.	Apply
CO5	Develop an understanding of credit rating systems, the methodology used in ratings, and the functioning of credit rating agencies in India.	Analyze

**UNIT I: MARKETS AND FINANCIAL INSTRUMENTS****10 HOURS**

Types of Markets: Equity Debt, Derivatives Commodities; Meaning and features of private, Public companies; Types of investment avenues

**UNIT II: PRIMARY MARKET****15 HOURS**

Initial Public Offer (IPO); Book Building through Online IPO; Eligibility to issue securities; Pricing of Issues; Fixed versus Book Building issues; allotment of Shares; Basis of Allotment; Private Placement

**UNIT III: SECONDARY MARKET****15 HOURS**

Role and functions of Securities and Exchange Board of India (SEBI); Depositories; Stock exchanges Intermediaries in the Indian stock market Listing; Membership; Trading Clearing and settlement and risk management; Investor protection fund (IPF); and Do's and Don'ts for investors, Equity and debt investment

**UNIT -IV INTRODUCTION****16 HOURS**

Financial Services-Meaning, Scope, Fund, Based and Non - Fund Based Activities, Innovative Financial Products & Services, Challenges Faced by Indian Financial Services Industry, Merchant Banking, Functions, Leasing, Meaning, Features, Merits and Demerits.

**UNIT – V MUTUAL FUNDS AND VENTURE CAPITAL****16 HOURS**

Mutual Funds , Origin and Growth of Mutual Funds, Organization of the Fund , Types, Importance of Mutual Funds, Selection of a Fund, Mutual Funds in India, Recent Trends. Venture Capital, Origin and Growth, Features, Modes of Financing, Stages of Financing, Factors of Decision, Importance of Venture Capital, Mode of Exit, Problems Faced by Venture Capital, Venture Capital Scenario in India, Angel Funding..

**TOTAL: 72 HOURS****TEXT BOOK :**

1. Gordon E. and Natarajan.K (2023), Financial services, Himalaya Publishing House, New Delhi

**REFERENCE BOOKS**

1. Khan.M.Y.(2019) “Financial Services”,5th Edition, Tata McGraw Hill Publishing Company Limited, New Delhi.
2. Santhanam. B. (2016), Financial Services, McGraw Hill Publishing Company Limited, New Delhi.

**CO, PO, PSO Mapping**

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

**1 - Low, - Medium, 3 - High, ‘-; - No Correlation**

**PREREQUISITE:**

- Understanding of HTML, CSS, and JavaScript fundamentals.

**COURSE OBJECTIVES (CO):**

- Understand core AngularJS concepts, including modules, controllers, directives, and data binding.
- Gain practical experience with testing tools like Karma and Jasmine for writing and running unit tests, and explore the creation and utilization of AngularJS services and custom directives.
- Familiarize with additional tools and libraries that enhance AngularJS development and testing efficiency.

**COURSE OUTCOMES (CO's):**

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

Cos	Course outcomes	BloomsLevel
CO1	Identify and describe the fundamental concepts of AngularJS, including modules, controllers, directives, and data binding.	Remember
CO2	Explain the importance and principles of unit testing in AngularJS and outline the use of tools such as Karma and Jasmine.	Understand
CO3	Apply AngularJS services and the \$http service to fetch data from servers and handle various HTTP scenarios in application development.	Apply
CO4	Analyze and evaluate the lifecycle and integration of custom directives, including the ability to set up and execute comprehensive tests for these directives.	Analyze
CO5	Develop well-structured and efficient single-page applications using AngularJS, incorporating best practices in project structure, testing, and build processes.	Create

**UNIT I - INTRODUCING ANGULARJS****12 HOURS**

Introducing AngularJS- Starting Out with AngularJS. Basic AngularJS Directives and Controllers: AngularJS Modules - Creating Our First Controller - Working with and Displaying Arrays - More Directives - Working with ng-repeat.

**UNIT II - UNIT TESTING IN ANGULARJS****12 HOURS**

What and why? - Introduction to Karma - Jasmine: Spec Style of Testing - Writing a Unit Test for Our Controller - Running the Unit Test., Forms, Inputs, and Services: Working with ng-model - Working with Forms - Leverage Data- Binding and Models - Form Validation and States - Error Handling with Forms - Nested Forms with ng-form - Other Form Controls.

**UNIT III - ALL ABOUT ANGULARJS SERVICES****12 HOURS**

Angular J S Services - Creating Our Own AngularJS. Server Communication Using \$http: Fetching Data with \$http Using GET - Advanced \$http.

**UNIT IV - UNIT TESTING SERVICES AND XHRS****12 HOURS**

Dependency Injection in Our Unit Tests - Unit Testing Server Calls. Working with Filters: What Are AngularJS Filters? - Creating AngularJS Filters - Things to Remember About Filters. Unit Testing Filters: The Filter under Test - Testing the time filter. Routing Using ng Route: Routing in a Single-

Page Application - Using Route - Routing Options - Additional Configuration. Additional tools for testing AngularJS applications Karma, Jasmine, angular-mocks.

**UNIT V – DIRECTIVES**

**12 HOURS**

Alternatives to Custom Directives - Understanding the Basic Options. Unit Testing Directives: Steps Involved in Testing a Directive - The Stock Widget Directive- Setting up Our Directive Unit Test - Other Considerations& Testing Directives. Advanced Directives: Life Cycles in AngularJS - Directive Controllers and require - Priority and Terminal - Third-Party Integration - Best Practices.End-to-End Testing: The Need for Protractor - Initial Setup - Protractor Configuration - An End-to-End Test - Considerations. Guidelines and Best Practices: Testing - Project Structure - Build - Best Practices - Tools and Libraries

**TOTAL HOURS 60 HOURS**

**TEXT BOOKS:**

1. Chandermani Arora, Kevin Hennessy, 2018. “Angular 6 by Example: Get up and running with Angular by building modern real-world web apps”, 3rd Edition, Kindle Edition.

**REFERENCE BOOKS:**

1. AgusKurniawan,2014.“AngularJSProgrammingbyExample”,FirstEdition
2. AdamFreeman,2014.“ProAngularJS“,FirstEdition,Apress.
3. Brad Green and Shyam Seshadri, 2013. “Angular JS”, First edition, O'Reilly Publications.

**WEBSITES:**

1. <http://www.w3schools.com/angular/default.asp>
2. <http://www.tutorialspoint.com/angularjs/>
3. [https://www.tutorialspoint.com/angularjs/angularjs\\_tutorial.pdf](https://www.tutorialspoint.com/angularjs/angularjs_tutorial.pdf)[E-bookforAngularJS]
4. <https://www.edx.org/course/angularjs-framework-fundamentals>

**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
CO2	2	3	-	2	2	2	-	-	-	-	-	-	-	-	1	1	2
CO3	2	2	3	3	3	2	2	-	-	-	2	-	-	-	2	1	1
CO4	2	2	2	3	3	3	3	-	-	3	-	3	-	-	1	-	1
CO5	1	2	2	3	3	-	-	-	-	-	-	-	-	-	2	1	-
<b>Avg</b>	<b>2</b>	<b>2.2</b>	<b>2</b>	<b>2.2</b>	<b>2.2</b>	<b>2.3</b>	<b>2.2</b>	<b>1</b>	<b>1</b>	<b>2</b>	<b>2</b>	<b>3</b>	<b>-</b>	<b>-</b>	<b>1.4</b>	<b>1</b>	<b>1.2</b>

**1 - Low, 2 - Medium, 3 - High, ‘-’ - No Correlation**

**PREREQUISITE:**

- Financial markets, investment principles, capital markets, Derivatives, and financial instruments like stocks, bonds, and mutual funds.

**COURSE OBJECTIVES (CO):**

- Acquire knowledge about the capital market sector, asset classes, and types of capital markets.
- Understand investments in funds, foreign exchange, equities, the risks of owning shares, and the features, benefits, and types of bonds.
- Learn about derivatives, their features, and the trade lifecycle overview.

**COURSE OUTCOMES (CO's):**

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

COs	Course outcomes	BloomsLevel
CO1	Acquire knowledge on the capital market sector & gain knowledge on asset classes.	Understand
CO2	Understand about investments funds and foreign exchange	Understand
CO3	Know about the equities, risk of owning charges and types of capital market.	Understand
CO4	Learn about the features, benefits and types of bonds.	Understand
CO5	Understand about the Derivatives and Trade Lifecycle Overview	Evaluate

**UNIT I - CAPITAL MARKET**

**12 HOURS**

Meaning–Features–Functions–PrimaryMarket–SecondaryMarket - Reasons for the sale of securities by Govt. and companies – Why do investors buy securities? – Return on investment – Who invest in securities – Market participants– Issuers– Investors– Regulators- Intermediaries – StockExchange-StockBroker –Sub-Broker - Prime Broker – Investment Banking (IB) – Underwriter - Investment Management (IM) – Depository & Depository Participants – Custodian - ClearingAgency – Registrar and Transfer Agents (R&TA) – Credit Rating Agency - DataVendors – Stock Market Indices.

**UNIT II - ASSET CLASSES**

**12 HOURS**

Introduction to Financial Securities – Equity – Fixed Income – Money Market – Treasury Bill – Commercial Paper – Certificate of Deposit – Derivatives – Warrants – Investment Funds – Introduction to Investment Fund and Mutual Fund – Fund structure – Open Ended Fund , Closed Ended Fund, Exchange traded fund – Pension Fund – Insurance -Funds - Hedge fund – Private equity – Foreign Exchange (FX) – Introduction – Spot Vs Forward Market – Reading Currency Pair – Bid, Ask, Spread, PIP and Lot Size – Buying and Selling Forex.

**UNIT III - EQUITIES**

**12 HOURS**

Introduction, Features & Benefits – Types of Equity Capital - Common stock & Preferred stock – Risk of Owning shares – Corporate Action – Mandatory corporate action, Voluntary corporate action and mandatory with choice – Corporate Action Dates – Declaration date, CUM Date, Ex-date, Record Date & Payment Date – Introduction to EPS & PE Ratio – Procedures to invest in stock based on Price- earnings ratio (PE) – Over valued or Undervalued – Depository Receipts – Introduction – American Depository Receipt (ADR) – Global Depository Receipt (GDR) – Securities identifiers – Introduction - Committee on Uniform Securities Identification Procedures (CUSIP) - stock exchange daily official list (SEDOL) - International Securities

Identification Numbering system (ISIN) – Types of Order – Market, Limit & Stop order - Equity trade ticket.

**UNITIV - FIXED INCOME**

**12 HOURS**

Introduction – features and benefits of bond – Why do people Invest in Bond – Who will issue Bonds? - Types of Bonds (Zero coupon, Callable, Puttable, Convertible, Floating rate, Step-up & step-down, Government, Corporate, Asset-backed securities – ABS & Mortgage-backed securities – MBS) – Influence of market interest rate on the bond price– Introduction to risk – Types of risk (Interest Rate, credit, liquidity, inflation etc.) – Accrued Interest of the Bond – Day Count Convention - Present Value of a Single payment received/paid in Future - Present Value of an Annuity-Basic Relationships for Premiums and Discounts- Selling Price of a Bond-Components of Bond Trade Ticket.

**UNITV – DERIVATIVES**

**12 HOURS**

Introduction – Spot Vs Derivative Market – Players in Derivative Market – Hedgers , Speculators , Arbitrageurs – Forwards – Non-deliverable forward, Deliverable forward, Sample trade – Futures – Underlying instruments – Market to market margin – Sample Trade - Futures Trade Ticket – Option – Types of Option – Call & Put Option – Exchange Traded Vs OTC Option – Swaption – Option on futures – Interest Rate Option – Option Exercising – Option Strategies – Option Trade Ticket – Swaps – Interest rate, Currency, Credit Default Swaps

**TOTAL :60 HOURS**

**TEXT BOOKS:**

1. NCMF–Financial Market Beginner’s Module–Published by National Stock Exchange of India
2. Understanding Different Asset Classes–Published by NSDL(National Securities Depository Ltd)

**REFERENCE BOOKS:**

1. Securities Market (Basic) Module – Published by National Stock Exchange of India Limited
2. NISM – Series VII – Securities Operations & Risk Management – Published by National Institute of Securities Markets
3. Introduction to Bond– Published by PIMCO, A company of Allianz.
4. NCMF – Capital Market (Dealers) Module – Published by National Stock Exchange of India.
5. NCFM – FIMMDA – NSE – Debt Market (Basic) Module – Published by National Institute of Securities Markets
6. Understanding Financial Derivatives – Prof. Manohar V Dansingani, ACMA, CSCA, CSSBBP
7. NCMF–Derivative Market(Dealers)Module–Published by National Stock Exchange of India
8. Security Analysis and Portfolio Management – Punithavathy Pandian – Published by Vikas Publication House Pvt. Ltd. 2009

**CO, PO, PSO Mapping**

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PO13	PO14	PO15	PSO1	PSO2
CO1	3	-	3	2	2	1	-	-	-	3	-	-	-	-	2	1	2
CO2	3	-	2	2	2	1	-	-	-	3	-	-	-	-	2	1	2
CO3	3	-	2	2	2	-	-	-	-	3	-	-	-	-	2	1	2
CO4	3	-	2	2	2	-	-	-	-	3	-	-	-	-	1	1	2
CO5	3	-	-	2	2	-	-	1	-	3	-	-	-	-	1	1	2
<b>Avg</b>	<b>3</b>	<b>-</b>	<b>2.25</b>	<b>2</b>	<b>2</b>	<b>1</b>	<b>-</b>	<b>1</b>	<b>-</b>	<b>3</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>1.6</b>	<b>1</b>	<b>2</b>

**1 - Low, 2 - Medium, 3 - High, ‘-’ - No Correlation**

Instruction Hours/week: L:0 T:0 P:6

Marks: Internal:40 External:60 Total:100

End Semester Exam: 3 Hours

**PREREQUISITE:**

- Not required

**COURSE OBJECTIVES (CO):**

- Utilize AngularJS formats effectively and create complex structures efficiently.
- Develop web applications for global audiences and ensure they are secure from threats and malicious users.
- Organize web applications using a robust directory structure.

**COURSE OUTCOMES (CO's):**

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

Cos	Course outcomes	BloomsLevel
CO1	Identify the fundamental components of AngularJS, including modules, controllers, and expressions.	Remember
CO2	Understand the use of AngularJS for performing arithmetic operations and data binding in simple applications.	Understand
CO3	Apply AngularJS to create interactive applications, such as automatic counters, calculators, and TODO lists.	Apply
CO4	Analyze advanced AngularJS features such as dependency injection and recursive templates for handling complex data structures.	Analyze
CO5	Design and develop comprehensive and user-friendly web applications, ensuring secure, structured, and global-ready code.	Create

**ListofPrograms**

- |   |                |
|---|----------------|
| 1. Write a simple program using AngularJS modules and controllers.                        | <b>7 HOURS</b> |
| 2. Create a page using AngularJS that will add two numbers.                               | <b>7 HOURS</b> |
| 3. Write a program to perform arithmetic operations using AngularJS expressions           | <b>7 HOURS</b> |
| 4. Create an automatic counter using AngularJS  | <b>7 HOURS</b> |
| 5. Create a simple calculator in AngularJS  | <b>7 HOURS</b> |
| 6. Implement TODO list using AngularJS  | <b>7 HOURS</b> |
| 7. Implement Dependency Injection in AngularJS-with and without introspection             | <b>7 HOURS</b> |
| 8. Implement an infinite recursive template in AngularJS for representing tree structures | <b>7 HOURS</b> |
| 9. Create a simple pages or tabs using AngularJS  | <b>8 HOURS</b> |
| 10. Create a Student Information form with submit and reset functionality                 | <b>8 HOURS</b> |
| <b>TOTAL :72 HOURS</b>  |                |

**TEXT BOOKS:**

1. Chandermani Arora, Kevin Hennessy, 2018. "Angular6 by Example: Get up and running with Angular by building modern real-world web apps", 3<sup>rd</sup> Edition, Kindle Edition.
2. Agus Kurniawan, 2014. "Angular JS Programming by Example", First Edition
3. Adam Freeman, 2014. "Pro AngularJS", First Edition, Apress.
4. Brad Green and Shyam Seshadri, 2013. "AngularJS", O'Reilly Publications, First edition.

**WEBSITES:**

1. <https://tutorialzine.com/2013/08/learn-angularjs-5-examples>

2. [https://leanpub.com/Practical\\_AngularJS/read](https://leanpub.com/Practical_AngularJS/read)
3. <https://dwmkerr.com/practical-angularjs-part1/>

### 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	2
CO2	2	3	2	-	-	2	-	-	2	-	-	-	-	-	2	1	2
CO3	2	2	3	3	3	-	-	-	2	2	-	-	-	-	1	1	2
CO4	2	2	2	3	3	-	-	3	3	3	-	-	-	-	2	1	2
CO5	1	2	2	3	3	3	-	-	-	-	-	-	-	-	1	1	2
<b>Avg</b>	<b>2</b>	<b>2.2</b>	<b>2</b>	<b>2</b>	<b>3</b>	<b>2.5</b>	<b>-</b>	<b>3</b>	<b>2.3</b>	<b>2.5</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>1.4</b>	<b>1</b>	<b>2</b>

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

**PREREQUISITE:**

Not required

**COURSE OBJECTIVES (CO):**

- Explore career alternatives prior to graduation and integrate theory with practice, assessing interests and abilities in their field of study.
- Develop work habits, attitudes necessary for job success, and critical skills for the job interview process.
- Build a record of work experience and enhance communication and interpersonal skills.

**COURSE OUTCOMES (CO's):**

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

Cos	Course outcomes	BloomsLevel
CO1	Explore career alternatives prior to graduation & integrate theory and Practice	Understand
CO2	Assess interest and abilities in theirfield of study	Evaluate
CO3	Develop work habits and attitudes necessary for job success	Apply
CO4	Develop communication, interpersonal and other critical skills in the job interview process	Apply
CO5	Build a record of work experience	Create

**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	-	-	-	-	-	2	-	-	-	-	2	2
CO2	3	-	-	-	-	-	-	-	-	-	2	-	-	-	-	2	2
CO3	3	-	-	-	-	-	-	-	-	-	2	-	3	-	-	2	2
CO4	3	2	2	-	-	-	2	-	-	-	2	2	-	-	-	1	1
CO5	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	3
<b>Avg</b>	<b>3</b>	<b>2</b>	<b>2</b>	<b>1</b>	<b>1</b>	<b>-</b>	<b>2</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>2</b>	<b>2</b>	<b>3</b>	<b>-</b>	<b>-</b>	<b>2</b>	<b>2</b>

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

**PREREQUISITE:**

- Not required

**COURSE OBJECTIVES (CO):**

- Gain a solid understanding of management accounting principles, focusing on cost control and analysis of financial statements.
- Use standard costing and variance analysis for performance evaluation, and apply marginal costing and break-even analysis for informed decision-making.
- Develop skills in budgeting and budgetary control, including zero-based and performance budgeting, to improve financial planning and control.

**COURSE OUTCOMES (CO's):**

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

<b>COs</b>	<b>Course outcomes</b>	<b>BloomsLevel</b>
CO1	Gain a comprehensive understanding of management accounting principles, including cost control and cost management techniques.	Understand
CO2	Develop proficiency in analyzing financial statements using horizontal, vertical, and ratio analysis for effective decision-making.	Analyze
CO3	Apply standard costing and variance analysis methods to assess performance and improve cost management strategies.	Apply
CO4	Demonstrate the ability to make informed decisions using marginal costing, cost-volume-profit analysis, and break-even analysis.	Evaluate
CO5	Acquire skills in budgeting and budgetary control, including zero-based budgeting and performance budgeting, to enhance financial planning and control.	Apply

**UNIT I - MANAGEMENT ACCOUNTING**

**12 HOURS**

Introduction –Meaning – Objectives - Nature and Scope of Management Accounting - Difference between Cost Accounting and Management Accounting - Cost control and Cost Reduction - Cost management.

**UNIT II - FINANCIAL STATEMENT ANALYSIS**

**20 HOURS**

Horizontal and Vertical Analysis - Ratio Analysis: Meaning – Advantages – Limitations - Classifications of ratios. Fund Flow Statement: Meaning – Uses – Limitations. Cash Flow Statement: Meaning – Uses – Limitations - Sources and uses of cash - AS3 Standard format.

**UNIT III - STANDARD COSTING**

**18 HOURS**

Standard Costing: Standard Costing and Variance Analysis: Meaning of Standard Cost and Standard Costing –Advantages -Limitations and Applications. Variance Analysis – Material –Labour - Overheads and Sales Variances. Disposition of Variances - Control Ratios.

**UNIT IV - MARGINAL COSTING AND DECISION MAKING****17 HOURS**

Absorption versus Variable Costing: Distinctive Features and Income Determination. Cost-Volume Profit Analysis, Profit / Volume ratio. Break- even Analysis-Algebraic and Graphic Methods. Angle of Incidence- Margin of Safety - Key Factor - Determination of Cost Indifference Point.

**UNIT V - BUDGETARY CONTROL AND CONTEMPORARY ISSUES****17 HOURS**

Budgeting and Budgetary Control - Concept of budget -Budgeting and Budgetary Control –Objectives -Merits and Limitations. Budget Administration - Functional budgets - Fixed and Flexible Budgets - Zero Base Budgeting - Programme and Performance Budgeting.

**Note: Distribution of marks - 30% theory and 70% problems**

**TOTAL :84 HOURS****TEXTBOOKS:**

1. M.Y. Khan, P.K. Jain (2017), Management Accounting, 7<sup>th</sup> Edition, McGraw Hill Education, New Delhi.
2. Dr. S N Maheshwari,CA Sharad K Maheshwari&Dr Suneel K Maheshwari(2018), A Textbook of Accounting for Management, 4<sup>th</sup>Edition S. Chand Publishing, New Delhi.

**REFERENCE BOOKS:**

1. Alnoor Bhimani, Charles T.Horngren, Srikant M.Datar ,Madhav Rajan(2015), Management and Cost Accounting, 6<sup>th</sup> Edition, Pearson Education, New Delhi.
2. Narasimhan (2017),Management Accounting ,Cengage Learning Publishing, New Delhi.
3. The Institute of Company Secretaries of India(2018),Corporate andManagement Accounting, M P Printers

**WEBSITES:**

- 1.[https://swayam.gov.in/nd1\\_noc20\\_mg65/preview](https://swayam.gov.in/nd1_noc20_mg65/preview)

**CO, PO, PSO Mapping**

Cos	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PO13	PO14	PO15	PSO1	PSO2
CO1	3	-	3	3	1	-	-	-	-	-	-	-	-	-	-	2	2
CO2	3	-	3	3	-	-	-	-	-	1	-	-	-	-	2	2	2
CO3	3	-	3	3	-	1	-	-	2	-	-	-	-	-	2	2	2
CO4	3	-	3	3	-	-	-	-	2	-	-	-	-	-	-	2	2
CO5	3	-	3	3	1	1	-	-	2	1	-	-	-	-	2	2	2
<b>Avg</b>	<b>3</b>	<b>-</b>	<b>3</b>	<b>3</b>	<b>1</b>	<b>1</b>	<b>-</b>	<b>-</b>	<b>2</b>	<b>1</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>3</b>	<b>2</b>	<b>2</b>

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

**PREREQUISITE:**

Understanding of business concepts, knowledge of organizational structures, awareness of the Indian business environment,

**COURSE OBJECTIVES (CO):**

- Understand the concept of entrepreneurship, including its scope, importance, skills required, and different types of business entities and their roles.
- Acquire insights into women entrepreneurship, including economic empowerment, growth factors, challenges, and solutions, and learn about sources of business ideas, feasibility studies, and business plan development.
- Understand the role of government assistance and business incubation in promoting entrepreneurship, including the types and benefits of business incubators and facilitators.

**COURSE OUTCOMES (CO's):**

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

COs	Course outcomes	BloomsLevel
CO1	Gain a comprehensive understanding of entrepreneurship, including its scope, importance, and the skills required to be successful.	Understand
CO2	Develop insights into different types of business entities, their economic roles, and the managerial functions necessary for small business success.	Understand
CO3	Acquire knowledge about women entrepreneurship, including economic empowerment, growth factors, challenges, and potential solutions.	Understand
CO4	Learn about sources of business ideas, feasibility studies, and the process of developing and presenting business plans or project proposals for external evaluation.	Evaluate
CO5	Understand the role of government assistance and business incubation in promoting entrepreneurship, including types and benefits of business incubators and facilitators in India..	Apply

**UNIT I - ENTREPRENEURSHIP****10 HOURS**

Meaning, Scope and Importance of Entrepreneurship - Evolution of entrepreneurial thought - Entrepreneurship as a Career Option - Functions of Entrepreneurs - Entrepreneurial Characteristics and Skills - Entrepreneur vs. Manager - Creativity & Creative Process - Types of Entrepreneurs (Clarence Danhoff's Classification) - Intrapreneurship – Concept and Types (Hans Scholl hammer's Classification) - Entrepreneurship in different Contexts: Technopreneurship, cultural entrepreneurship, international entrepreneurship, Netpreneurship, Ecopreneurship, and social entrepreneurship

**UNIT II - TYPES OF BUSINESS ENTITIES****10 HOURS**

Micro, Small and Medium Enterprises. Concept of business groups and role of business houses and family business in India. Values, business philosophy and behavioral orientations of family business in India. – Procedure for Starting New Business in India - Managerial roles and functions in small business. Entrepreneur as the manager of his business

**UNIT III - WOMEN ENTREPRENEURSHIP****8 HOURS**

Introduction - Concept - Definition of Women Entrepreneur- Economic Empowerment and Entrepreneurship - Functions of Women Entrepreneurs - Growth and Development of Women Entrepreneurship - Areas for Development of Women Entrepreneurs - Problems and Remedies of Women Entrepreneurs

**UNITIV - SOURCES OF BUSINESS IDEAS AND FEASIBILITY STUDIES****10 HOURS**

Sources of business ideas and tests of feasibility. Significance of writing the business plan/ project proposal. Contents of businessplan /project proposal. Designing business processes, location, layout, operation, planning & control; preparation of project report. Project submission/ presentation and appraisal by external agencies - financial/non-financial.

**UNIT - V START-UP ECO SYSTEM IN INDIA –****10 HOURS**

Emergence of start-up and types of Start up Mobilizing resources for start-up. Accommodation and utilities. Preliminary contracts with the vendors, suppliers, bankers, principal customers; Contract management: Basic start-up problems. Funding opportunities for start-ups- Mudra - ASPIRE. Marketing and organizational plans-an overview. Nature of planning in small business. Organizational structure suitable for small business. Financial: preparation of budgets, integrated ratio analysis, assessing business risks (leverage analysis). Marketing: product planning & development, creating and protecting market niche, sales promotion, advertising and product costing and pricing policies. HR issues in small business.

**TOTAL : 48 HOURS****TEXTBOOKS:**

1. Robert Hisrich and Michael Peters and Dean Shepherd(2018), Entrepreneurship,10th Edition, Mc Graw Hill, New Delhi.
2. David H. Holt (2016), Entrepreneurship, 1stEdition, Pearson Education, New Delhi.

**REFERENCE BOOKS:**

- 1.Sangeetha Sharma (2017), Entrepreneurship Development, PHI Learning Pvt. Ltd., New Delhi.
- 2.Poornima M., Charantimath (2018), Entrepreneurship Development and Small Business Enterprises, 3rd Edition, Pearson Education, New Delhi
3. S.S.Khanka (2012), Entrepreneurial Development, S.Chand and Sons, New Delhi.

**WEBSITES:**

- 1.[https://swayam.gov.in/nd1\\_noc20\\_hs66/preview](https://swayam.gov.in/nd1_noc20_hs66/preview)

**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	-	-	-	-	2	2	2	3
CO2	3	-	-	1	2	-	1	-	-	-	1	-	-	-	2	2	2
CO3	3	-	2	-	2	-	-	-	1	-	-	-	1	-	2	2	2
CO4	3	1	-	1	2	-	-	-	-	1	1	-	-	2	-	2	3
CO5	3	-	2	-	-	1		1	-	1		-	-	2	2	2	3
<b>Avg</b>	<b>3</b>	<b>1</b>	<b>2</b>	<b>1</b>	<b>2</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>-</b>	<b>1</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2.6</b>

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

**PREREQUISITE:**

- Basic understanding of programming and logical concepts.

**COURSE OBJECTIVES (CO):**

- Understand fundamental concepts and problem-solving methods of AI, including knowledge representation techniques.
- Analyze knowledge inference, planning strategies, and the architecture of expert systems.
- Apply programming skills in Prolog for logic-based problem solving.

**COURSE OUTCOMES (CO's):**

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

Cos	Course outcomes	BloomsLevel
CO1	Understand the basics of AI, problem formulation, and production systems.	Understand
CO2	Apply various knowledge representation techniques such as predicate logic and frame-based systems.	Apply
CO3	Analyze knowledge inference methods and planning strategies in AI.	Analyze
CO4	Evaluate the architecture and roles of expert systems in various applications.	Evaluate
CO5	Create logic-based programs using Prolog for solving complex problems.	Analyze

**UNIT I - INTRODUCTION TO AI AND PRODUCTION SYSTEMS**

**10 HOURS**

Introduction to AI-Problem formulation, Problem Definition -Production systems, Control strategies, Search strategies. Problem solving methods – Problem graphs, Matching. Heuristic functions - Hill Climbing-Depth first and Breath first search, A\* Algorithm, Simulated Annealing, Constraints satisfaction.

**UNIT II - REPRESENTATION OF KNOWLEDGE**

**10 HOURS**

Game playing –Predicate logic – Representing Instance and Isa Relationship, Introduction to predicate calculus, Resolution, Knowledge representation -Production based system, Frame based system

**UNIT III - KNOWLEDGE INFERENCE & PLANNING**

**10 HOURS**

Inference – Backward chaining, Forward chaining, Rule value approach, Fuzzy reasoning – Certainty factors -Basic plan generation systems – Strips -Advanced plan generation systems – K strips.

**UNIT IV- LEARNING AND EXPERT SYSTEMS**

**10 HOURS**

Learning- Machine learning, Adaptive Learning.Expert systems – Architecture of expert systems, Roles of expert systems – Knowledge Acquisition – Meta knowledge. Typical expert systems–MYCIN, DART, XOON, Expert systems shells.

**UNIT V – PROLOG****8 HOURS**

Programming in Logic (PROLOG): Introduction, Prolog variables, Syntax, Using rules, Input and Output predicates, Procedural and declarative meanings, Arithmetic operation, unification, lists, control structures, use of fail, CUT, Not.

**TOTAL :48 HOURS****TEXTBOOKS:**

1. Kevin Knight and Elaine Rich, Nair B.,2018. “Artificial Intelligence (SIE)”, Mc Graw Hill.
2. Dan W. Patterson, 2017. “Introduction to AI and ES”, Pearson Education.

**REFERENCE BOOKS:**

3. Ivan Brako,2017. PROLOG: Programming for Artificial Intelligence,3<sup>rd</sup> edition Pearson.
4. Peter Jackson, 2016. “Introduction to Expert Systems”, 3<sup>rd</sup> Edition, Pearson Education.
5. Stuart Russel and Peter Norvig 2016. “AI – A Modern Approach”, 2<sup>nd</sup> Edition, Pearson Education.
6. Deepak Khemani 2015. “Artificial Intelligence”, Tata Mc Graw Hill Education.

**WEBSITES:**

1. [https://www.tutorialspoint.com/artificial\\_intelligence/index.htm](https://www.tutorialspoint.com/artificial_intelligence/index.htm)
2. <https://nptel.ac.in/courses/106/105/106105077/>

**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	-	-	-	3	-	-	-	-	2	1	2
CO2	3	-	-	-	-	-	-	-	-	3	-	-	-	-	2	1	2
CO3	3	-	2	-	-	2	-	-	-	-	-	-	-	-	2	1	2
CO4	3	-	-	2	-	-	-	-	-	3	-	-	-	-	2	1	2
CO5	3	-	2	2	-	-	-	-	-	-	-	-	-	-	2	1	2
<b>Avg</b>	<b>3</b>	<b>-</b>	<b>2</b>	<b>2</b>	<b>-</b>	<b>2</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>3</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>2</b>	<b>1</b>	<b>2</b>

**1 - Low, 2 - Medium, 3 - High, ‘-’ - No Correlation**

Instruction Hours/week: L:5 T:0 P:0

Marks: Internal:40 External:60 Total:100

End Semester Exam: 3 Hours

**PREREQUISITE:**

- Basic understanding of financial markets and investment principles.

**COURSE OBJECTIVES (CO):**

- Acquire knowledge on investment banking operations, including the services offered by investment banks and the trade life cycle.
- Understand risks, market data providers, and fund administration.
- Gain insights into the overall functioning and key aspects of investment banking.

**COURSE OUTCOMES (CO's):**

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

Cos	Course outcomes	BloomsLevel
CO1	Acquireknowledgeonthe InvestmentBankingOperations.	Understand
CO2	GainknowledgeonservicesofferedbyInvestmentBank.	Understand
CO3	UnderstandaboutRisks &MarketDataProviders.	Evaluate
CO4	Knowabout theTradeLife Cycle.	Understand
CO5	LearnabouttheFundadministration	Apply

**UNIT I- INTRODUCTION TO INVESTMENT BANKING**

**12 HOURS**

Investment Banking – Introduction - Investment Banking Services – Underwriting and types - Investment bank structure - Types of Investment Banks – Commercial Bank vs Investment Bank - Role of Investment Banking in Financial Market - Role of investment banks during the last financial crisis 2008.

**UNIT II -INVESTMENT BANKING SERVICES**

**12 HOURS**

Introduction - Custody Services - Transfer Agency – Safekeeping & Settlements, Reporting & Record keeping – Investible Cash - Income Process - Corporate Actions – Collateral Services - Reconciliation - Securities Valuation – Pricing - Fund Accounting– Financial Reporting

**UNIT III - RISK AND MARKET DATA PROVIDERS**

**12 HOURS**

Risk: Concept of Risk – Risk Management – Types of Risk – Market Risk - Credit Risk – Liquidity Risk – Regulatory Risk – Operational Risk – Risk Mitigating strategies. Market Data Providers: – Meaning – Players – Reference Data – Market Data.

**UNIT IV -TRADE LIFE CYCLE**

**12 HOURS**

Introduction – Transaction Types - Stages of trade life cycle - Pre-Trade – Trade - Post Trade – Equity Trade Life Cycle - Front office - Middle office - Back office – Parties in Trade Life Cycle.

**UNIT V- FUND ADMINISTRATION ROLE OF FUND ADMINISTRATOR**

**12HOURS**

Support Functions of Fund Administration - Responsibilities of Fund Administrator – Technology – Fees – Accounting and other reporting services – Compliance Services – Portfolio Administration – NAV, pricing and valuations – Pricing Assets – Pricing controls & failure impact

**TOTAL: 60 HOURS**

### **TEXTBOOKS:**

1. Investment Banking Guide, All is on Otto–Published by Vanderbilt University–By Invest Banking & Financial Services – Published by Gopalan College of Engineering & Management
2. Securities Operations–A Guide to Trade & Position Management– Michael Simmons – Published by John Wiley & Sons, LTD.
3. Introduction to Investment Banking Career, Read in tro books.com
4. Investment Banking, Concepts, Analysis and Cases,Pratap Giri S, McGraw Hill India.

### **REFERENCE BOOKS:**

1. Investment Banking, Pradeep Subramaniam, McGraw Hill Education
2. Custody Services - Comptroller's Handbook Jan 2002
3. The Custody Services of Banks – July 2016 – Published by The Clearing House
4. Investment Banking: Valuation, LBOs, M&A, and IPOs, Joshua Rosenbaum · Joshua Pearl, - Published by Wiley
5. Investment Banking and Financial Services, Dr.S.K.Yadav,
6. NISM – Series VII – Securities Operations & Risk Management – Published by National Institute of Securities Markets
7. Minimum Capital Requirements for Market Risk – Jan 2019 – Published by Basel Committee on Banking Supervision
8. CISI – Global Securities Operations – Edition 16, April 2020 – Published by Chartered Institute for Securities & Investment – Author - Kevin Petley, Chartered FCSI
9. Investment Banking, CA.Tapan Jindal, Published by Bharat Law House Pvt.Ltd.
10. Risk and Market Data Providers ,Dr.K.M.Bhattacharya, Published by Himalaya Publishing House Pvt., Ltd.
1. The Trade Life cycle: Behind the Scenes of the Trading Process, Robert P Baker, John Published by Wiley & Sons Inc
12. Fundamentals of Fund administration–Published by CESR

## 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	-	-	-	-	1	-	-	-	-	1	-	-	-
CO2	3	-	-	3	2	-	-	-	-	2	1	-	-	-	1	1	2
CO3	3	-	1	-	2	1	-	-	1	-	-	-	-	-	1	-	-
CO4	3	1	-	3	-	-	1	-	-	2	-	-	-	-	-	1	2
CO5	3	-	-	3	2	-	-	-	-	2	-	-	-	1	-	-	-
<b>Avg</b>	<b>3</b>	<b>1</b>	<b>1</b>	<b>3</b>	<b>2</b>	<b>1</b>	<b>1</b>	<b>-</b>	<b>1</b>	<b>2</b>	<b>1</b>	<b>-</b>	<b>-</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>2</b>

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

**PREREQUISITE:**

- Basic understanding of business concepts, economics, Microsoft Office/Google Workspace, creativity, problem-solving skills, and basic knowledge of digital platforms and social media tools.

**COURSE OBJECTIVES (CO):**

- Gain comprehensive knowledge of entrepreneurship fundamentals, including idea generation, opportunity recognition, and business planning.
- Understand the process of financial planning, market research, and competitive analysis.
- Develop the ability to create and pitch business plans to potential investors.

**COURSE OUTCOMES (CO's):**

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

<b>Cos</b>	<b>Course Outcomes</b>	<b>Bloom's Level</b>
<b>CO1</b>	Understand the fundamentals of entrepreneurship and identify opportunities.	Understand
<b>CO2</b>	Develop a comprehensive business plan for a startup.	Apply
<b>CO3</b>	Conduct market research and competitive analysis.	Analyze
<b>CO4</b>	Create a pitch deck and pitch business ideas to investors.	Apply
<b>CO5</b>	Understand the legal aspects of entrepreneurship.	Understand

**List of Exercises for Entrepreneurship Development**

1. Introduction to Entrepreneurship and Opportunity Identification	<b>7HOURS</b>
2. Feasibility Study for a Business Idea	<b>7HOURS</b>
3. Writing a Business Plan	<b>7HOURS</b>
4. Market Research and Competitive Analysis	<b>7HOURS</b>
5. Financial Planning for Startups	<b>7HOURS</b>
6. Pitching to Investors	<b>7HOURS</b>
7. Digital Marketing Strategies for Startups	<b>7HOURS</b>
8. Building a Brand Identity for Your Business	<b>7HOURS</b>
9. Managing Legal Aspects of a Startup	<b>8HOURS</b>
10. Scaling Your Business and Managing Growth	<b>8HOURS</b>
	<b>TOTAL: 72 HOURS</b>

**1. TEXT BOOKS:**

1. “The Lean Startup: How Today’s Entrepreneurs Use Continuous Innovation to Create Radically Successful Businesses” by Eric Ries

2. “Entrepreneurship: Theory, Process, and Practice” by Donald F. Kuratko
3. “Business Model Generation” by Alexander Osterwalder and Yves Pigneur
4. “Start with Why: How Great Leaders Inspire Everyone to Take Action” by Simon Sinek

**REFERENCE BOOKS:**

1. “The Art of the Start 2.0: The Time-Tested, Battle-Hardened Guide for Anyone Starting Anything” by Guy Kawasaki
2. “The E-Myth Revisited: Why Most Small Businesses Don't Work and What to Do About It” by Michael E. Gerber
3. “Good to Great: Why Some Companies Make the Leap... and Others Don't” by Jim Collins
4. “Zero to One: Notes on Startups, or How to Build the Future” by Peter Thiel and Blake Masters

**CO, PO, PSO Mapping**

<b>Cos</b>	<b>PO1</b>	<b>PO2</b>	<b>PO3</b>	<b>PO4</b>	<b>PO5</b>	<b>PO6</b>	<b>PO7</b>	<b>PO8</b>	<b>PO9</b>	<b>PO10</b>	<b>PO11</b>	<b>PO12</b>	<b>PO13</b>	<b>PO14</b>	<b>PO15</b>	<b>PSO1</b>	<b>PSO2</b>
CO1	3	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CO2	2	-	-	3	-	-	-	-	-	2	1	-	-	-	1	1	2
CO3	3	-	1	-	-	-	-	-	-	-	-	-	-	-	1	-	-
CO4	2	1	-	3	-	-	-	-	-	1	-	-	-	-	-	1	2
CO5	3	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-
<b>Avg</b>	<b>2.6</b>	<b>1</b>	<b>1</b>	<b>3</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>2</b>	<b>1</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>1</b>	<b>1</b>	<b>2</b>

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

**PREREQUISITE:**

- Not required

**COURSE OBJECTIVES (CO):**

- Identify problems suitable for AI solutions, select appropriate AI methods, and formalize these problems in the context of different AI frameworks.
- Implement basic AI algorithms and design empirical evaluations of these algorithms to assess their effectiveness.
- Apply knowledge representation, reasoning, and machine learning techniques to real-world problems and state the conclusions from evaluations.

**COURSE OUTCOMES (CO's):**

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

Cos	Course outcomes	BloomsLevel
CO1	Explore career alternatives prior to graduation & integrate theory and Practice	Understand
CO2	Assess interest and abilities in their field of study	Evaluate
CO3	Develop work habits and attitudes necessary for job success	Apply
CO4	Develop communication,interpersonal and other critical skillsinthe job interview process	Apply
CO5	Buildarecordof workexperience	Create

**List of Programs**

Write the following programs using PROLOG

1. Program to read address of a person using compound variable. **7 HOURS**
2. Program of fun to show concept of cut operator. **7 HOURS**
3. Program to count number of elements in a list. **7 HOURS**
4. Program to find member of a set. **7 HOURS**
5. Program to concatenate two sets. **7 HOURS**
6. Program to find permutation of a set. **7 HOURS**
7. Program to demonstrate family relationship. **7 HOURS**
8. Write a program to solve N queens problem **7 HOURS**
9. Solve any problem using depth first search. **8 HOURS**
10. Solve any problem using best first search. **8 HOURS**

**TEXTBOOKS:**

1. Kevin Night and Elaine Rich, Nair B.,2017. “Artificial Intelligence (SIE)”, Mc Graw Hill.
2. Dan W. Patterson,2007. “Introduction to AI and ES”, Pearson Education.
3. Ivan Brako, 2011. PROLOG: Programming for Artificial Intelligence,3<sup>rd</sup> edition Pearson.
4. Peter Jackson, 2007. “Introduction to Expert Systems”, 3rd Edition, Pearson Education.

**WEBSITES:**

1. <https://nptel.ac.in/courses/106/105/106105077/>

**CO, PO, PSO Mapping**

<b>Cos</b>	<b>PO1</b>	<b>PO2</b>	<b>PO3</b>	<b>PO4</b>	<b>PO5</b>	<b>PO6</b>	<b>PO7</b>	<b>PO8</b>	<b>PO9</b>	<b>PO10</b>	<b>PO11</b>	<b>PO12</b>	<b>PO13</b>	<b>PO14</b>	<b>PO15</b>	<b>PSO1</b>	<b>PSO2</b>
CO1	3	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CO2	2	-	-	3	-	-	-	-	-	2	1	-	-	-	1	1	2
CO3	3	-	1	-	-	-	-	-	-	-	-	-	-	-	1	-	-
CO4	2	1	-	3	-	-	-	-	-	1	-	-	-	-	-	1	2
CO5	3	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-
<b>Avg</b>	<b>2.6</b>	<b>1</b>	<b>1</b>	<b>3</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>2</b>	<b>1</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>1</b>	<b>1</b>	<b>2</b>

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

Instruction Hours/week: L:0 T:0 P:8

Marks: Internal:40 External:60 Total:100

End Semester Exam: 3 Hours

**PREREQUISITE:**

Not required

**COURSE OBJECTIVES (CO):**

- Choose the right problem of study and sampling technique, and construct instruments for data collection.
- Carry out statistical analysis and write interpretations of the results.
- Draft a comprehensive project report based on the analysis.

**COURSE OUTCOMES (CO's):**

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

COs	Course outcomes	BloomsLevel
CO1	Choosetherightproblemofthestudy&tochooseright samplingtechnique	Understand
CO2	Constructinstrumentfordatacollection	Create
CO3	Carryout their statistical analysis	Analyze
CO4	Writetheinterpretationforstatisticalanalysis	Evaluate
CO5	Drafttheirproject report	Create

The students should select a problem in Accounting, Finance, Marketing or any other areas related to commerce.

Reportshouldcontain

- ❖ Introduction
  - Introductionabouttheindustry
  - IntroductionabouttheCompany
  - Reviewofliterature–Minimum10papersfromreferredjournal
  - NeedfortheStudy
  - Objectives
- ❖ ResearchMethodology
  - ResearchDesign
  - SamplingDesign
  - SourcesofDataCollection
  - Toolsusedforanalysis
  - Limitation
- ❖ Dataanalysisandinterpretation
- ❖ FindingsandSuggestions
- ❖ Conclusion
- ❖ Bibliography(APAformat)

### CO, PO, PSO Mapping

<b>Cos</b>	<b>PO1</b>	<b>PO2</b>	<b>PO3</b>	<b>PO4</b>	<b>PO5</b>	<b>PO6</b>	<b>PO7</b>	<b>PO8</b>	<b>PO9</b>	<b>PO10</b>	<b>PO11</b>	<b>PO12</b>	<b>PO13</b>	<b>PO14</b>	<b>PO15</b>	<b>PSO1</b>	<b>PSO2</b>
CO1	3	-	1	2	3	-	-	-	1	-	-	-	-	-	-	1	2
CO2	3	1	-		3	1	-	-	-	1	-	-	-	-	-	1	2
CO3	3	-	-	2	3	3	-	1	-	-	1	-	-	-	2	1	2
CO4	3	-	1	2	3	-	-	-	1	-	-	-	-	-	-	1	2
CO5	3	1	-	-	-	-	-	-	-	-	1	-	-	1	-	1	2
<b>Avg</b>	<b>3</b>	<b>1</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>2</b>	<b>-</b>	<b>1</b>	<b>2</b>	<b>1</b>	<b>3</b>	<b>-</b>	<b>-</b>	<b>1</b>	<b>2</b>	<b>1</b>	<b>2</b>

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

Instruction Hours / Week: L:6 T:0 P:0

Marks:Internal:40 External:60 Total:100

End Semester Exam: 3 Hours

**PREREQUISITE:**

- Students should have a basic understanding of financial instruments and markets is essential for learning about derivatives, options, futures, and their applications in India.

**COURSE OBJECTIVES (CO):**

- Understand the concept and types of derivatives.
- Learn about options, futures, and stock futures.
- Study hedging, the development of derivatives, and the financial derivatives market in India.

**COURSE OUTCOMES (COs):**

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

Cos	Course Outcomes	Blooms Level
CO1	Gain an understanding of the concept of Derivatives and its types	Understand
CO2	Get acquainted about Options and Futures	Evaluate
CO3	Understand about stock futures	Analyze
CO4	Describe about hedging and the development position of derivatives in India	Apply
CO5	Gain mastery over the financial derivatives market in India	Create

**UNIT - I INTRODUCTION TO DERIVATIVES****14 HOURS**

Definition of Financial derivatives- Features - Types - History of Derivatives Markets - Uses of Derivatives - Forward Market: Forward Contract concept - Features - Classification of Forward Contracts - Forward Trading Mechanism - Forward Prices Vs Future Prices.

**UNIT - II OPTIONS AND SWAPS****14 HOURS**

Options and Swaps - Concept & Types - Option Valuation- Option Positions Naked and Covered Option - Underlying Assets in Exchange-traded Options - Determinants of Option Prices - Binomial Option Pricing Model - Black-Scholes Option Pricing - Basic Principles of Option Trading - SWAP: Concept, Evaluation and Features of Swap - Types of Financial Swaps - Interest Rate Swaps - Currency Swap - Debt-Equity Swap.

**UNIT - III FUTURES****14 HOURS**

Futures - Financial Futures Contracts - Types of Financial Futures Contract - Evolution of Futures Market in India - Traders in Futures Market in India - Functions and Growth of Futures Markets- Theories of Future prices - Future prices and Risk Aversion - Forward Contract Vs. Futures Contracts.

**UNIT - IV HEDGING AND STOCK INDEX FUTURES****15 HOURS**

Hedging and Stock Index Futures - Concepts - Perfect Hedging Model - Basic Long and Short Hedges - Cross Hedging - Basis Risk and Hedging - Basis Risk Vs Price Risk - Hedging Effectiveness - Devising a Hedging Strategy - Hedging Objectives - Management of Hedge - Concept of Stock Index - Stock Index Futures - Stock Index Futures as a Portfolio management Tool & Speculation and Stock Index Futures - Stock Index Futures Trading in Indian Stock Market.

**UNIT -V FINANCIAL DERIVATIVES MARKET IN INDIA****15 HOURS**

Financial Derivatives Market in India - Need for Derivatives - Evolution of Derivatives in India - Major Recommendations of Dr. L.C. Gupta Committee -Derivatives Trading at NSE/BSE - Eligibility of Stocks - Emerging Structure of Derivatives Markets in India.

**TOTAL 72 HOURS****TEXT BOOK**

1. Gupta S.L., (2008), Financial Derivatives - Theory, Concepts and Problems, Prentice Hall of India, Delhi

**REFERENCE BOOKS**

1. Kumar S.S.S (2007), Financial Derivatives, Prentice Hall of India, Delhi
2. Chance, Don M (2001), Derivatives and Risk Management Basics, Cen gage Learning, Delhi
3. Stulz M. Rene, (2009), Risk Management and Derivatives, Cen gage Learning, Delhi

**CO, PO, PSO Mapping**

<b>Cos</b>	<b>PO1</b>	<b>PO2</b>	<b>PO3</b>	<b>PO4</b>	<b>PO5</b>	<b>PO6</b>	<b>PO7</b>	<b>PO8</b>	<b>PO9</b>	<b>PO10</b>	<b>PO11</b>	<b>PO12</b>	<b>PO13</b>	<b>PO14</b>	<b>PO15</b>	<b>PSO1</b>	<b>PSO2</b>
CO1	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	1
CO2	3	-	1	-	-	2	-	-	-	-	-	3	-	-	-	2	2
CO3	3	-	-	-	-	2	-	-	1	-	-	3	-	-	2	3	1
CO4	3	-	-	-	-	-	-	-	-	-	-	3	-	-	-	2	2
CO5	3	-	-	-	-	-	-	-	-	-	-	3	1	-	2	2	3
<b>Average</b>	<b>3</b>	<b>-</b>	<b>1</b>	<b>-</b>	<b>-</b>	<b>2</b>	<b>-</b>	<b>-</b>	<b>1</b>	<b>-</b>	<b>-</b>	<b>3</b>	<b>1</b>	<b>-</b>	<b>2</b>	<b>2.4</b>	<b>1.8</b>

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

**PREREQUISITE:**

Understanding of research methods, data collection, and basic statistical analysis is essential for learning about research design, hypothesis testing, and report writing.

**COURSE OBJECTIVES (CO):**

- To learn research purposes, types, and design components.
- To understand sampling methods and data collection techniques.
- To apply statistical analysis and report writing techniques.

**COURSE OUTCOMES (COs):**

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

COs	Course Outcomes	Blooms Level
CO1	Understand the research process, research design and sampling techniques and its application	Understand
CO2	Identify appropriate methods of data collection	Apply
CO3	Apply appropriate tools to analyse the quantitative and qualitative data	Apply
CO4	Understand the ethical norms for research and select the best type of research report and be familiar with the content to be included in the report	Understand
CO5	Apply principles and practice of research in real life business situations	Apply

**UNIT - I RESEARCH**

**14 HOURS**

Introduction to Research: Meaning – Purpose – Types of Research – Significance – Qualities of a good research – Steps in Research - Identification, Selection and Formulation of Research Problem – Sources. Research Design: Components of Research Design – Methods of Research Design - Ethics in Research

**UNIT - II SAMPLING DESIGN**

**14 HOURS**

**Introduction** – Census and Sample Survey–Characteristics of a Good Sample Plan– Steps in Sampling – Types of Sampling – Advantages and Limitations of Sampling. Data Collection: Primary Data - Meaning – Significance – Methods of Collecting Data: Observation – Interview Schedule – Questionnaire. Secondary Data – Meaning - Sources of Secondary Data – Precautions while using Secondary Data.

**UNIT - III HYPOTHESIS**

**14 HOURS**

Characteristics of a good Hypothesis – Formulation of Hypothesis – Procedure for Testing of Hypothesis – T test, F test and Chi Square Test, Analysis of Variance - Business Forecasting – Exponential Smoothing

**UNIT - IV SCALING TECHNIQUES AND DESCRIPTIVE STATISTICS**

**15 HOURS**

Meaning of Scale–Measurement of Scale –Important Scaling Techniques – Processing of Data – Editing – Purpose–Analysis and Interpretation of Data - Meaning–Need for Interpretation – Techniques of Interpretation - **Descriptive Statistics** - Measures of Central Tendency: - Mean, Median and Mode - Standard deviation – Karl Pearson Correlation – Spearman Rank Correlation - Regression Analysis – Inferential Statistics – Multivariate Analysis - Factor Analysis – Kruskal Wallis Test.

**UNIT - V REPORT WRITING****15 HOURS**

Introduction - Types of Research Reports - Layout of the Report – Steps in Writing the Report – Contents of Research Reports – Ethics in Publication – Plagiarism check – Publication Misconduct.

**TOTAL: 72 HOURS****TEXT BOOKS:**

1. Uma Sekaran, Roger Bougie (2018), *Research Methods for Business: A Skill-Building Approach*, 7<sup>th</sup> edition, Wiley, New Delhi.
2. C.R. Kothari , Gaurav Garg (2018), *Research Methodology*, Fourth Edition, New Age International Publishers, New Delhi.

**REFERENCE BOOKS:**

1. Donald Cooper and Pamela Schindler (2017), *Business Research Methods*, 11<sup>th</sup> Edition, McGraw Hill Education, New Delhi.
2. Zikmund William G. et.al (2016), *Business Research Methods*, Cengage India, NewDelhi

**WEBSITES:**

1. [https://swayam.gov.in/nd2\\_arp19\\_ap72/preview](https://swayam.gov.in/nd2_arp19_ap72/preview)
2. [https://swayam.gov.in/nd2\\_cec20\\_hs17/preview](https://swayam.gov.in/nd2_cec20_hs17/preview)

**CO, PO, PSO Mapping**

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

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

**PREREQUISITE:**

- Business concepts and the external environment factors influencing business operations.

**COURSE OBJECTIVES (CO):**

- To understand the conceptual framework of business environment.
- To analyze economic, political, social, and cultural factors affecting business.
- To analyze industry dynamics and emerging trends.

**COURSE OUTCOMES (COs):**

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

Cos	Course Outcomes	Blooms Level
CO1	Demonstrate Understanding of Business Environment Concepts	Understand
CO2	Analyze Economic Environment and Globalization Trends	Analyze
CO3	Analyze Industry Dynamics and Emerging Trends	Analyze
CO4	Evaluate Political, Social, and Cultural Environment	Evaluate
CO5	Assess Technological Environment and Policy Implications	Apply

**UNIT- I INTRODUCTION TO BUSINESS ENVIRONMENT**

**14 HOURS**

Business and Its Environment - Concept of Business Environment - Characteristics of Business - Environment - Significance - Environmental Scanning – Process - Techniques of Environmental Scanning - Practices of Environmental Scanning

**UNIT - II ECONOMIC ENVIRONMENT**

**14 HOURS**

Economic Environment - Economic Systems - Nature, Growth and Role of Public Sector - Privatization - Nature and Objectives - Privatisation Routes - Disinvestment - Globalization - Nature and Rationale - Multinational Corporations - India & WTO - Fiscal and Monetary Policy - Foreign Direct Investment - Mergers and Acquisitions - Business Process Outsourcing - Competition Policy – Foreign Institutional Investors.

**UNIT - III INDUSTRY ANALYSIS**

**14 HOURS**

Industry Analysis - Economic Reforms and Competitive Environment Business Environment and Current Issues - Airlines Industry, Mobile Services, Software Industry, Steel Industry, Cement Industry, Passenger Cars, Two-wheelers, Pharmaceutical Industry, Organised Retailing, Express Services Industry

**UNIT - IV POLITICAL, SOCIAL AND CULTURAL ENVIRONMENT**

**15 HOURS**

Political Environment - Political Institutions - Legislature, Executive, Judiciary and Judicial Activism - Culture and Business Ethics - Social Responsibility of Business - Nature, Models and Strategies - Corporate Governance & Corporate Social Responsibility - Social Audit - Ecology and Business - Nature of Physical Environment - Impact on Business - Geo Political Environment.

**UNIT - V TECHNOLOGICAL ENVIRONMENT**

**15 HOURS**

Technological Environment - Features and Impact on Technology - Technology and Society Restraints on Technological Growth - Status of Technology in India - Technology Policy – Technology Transfer.

**TOTAL 72 HOURS**

**TEXT BOOKS:**

1. Francis Cherunilam (2019), *Business Environment Text & Cases*, 28<sup>th</sup> Edition, Himalaya Publishing House Pvt., Ltd., Mumbai
2. K. Aswathappa (2019), *Essentials of Business Environment*, 15<sup>th</sup> Edition, Himalaya Publishing House Pvt., Ltd., Mumbai

**REFERENCE BOOK:**

1. Dr. V. C. Sinha, Dr Ritika Sinha (2020), *Business Environment*, SBPD Publishing House, Uttar Pradesh

**WEBSITE:**

1. <https://www.coursera.org/learn/global-business-environment>

**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	2
CO2	3	-	-	-	-	-	-	-	-	-	-	2	-	-	2	1	-
CO3	3	-	-	-	-	-	-	-	-	-	-	2	-	-	2	1	2
CO4	3	-	-	-	-	-	-	-	-	-	-	2	-	-	-	1	-
CO5	3	-	-	-	-	-	-	-	-	-	-	-	-	-	2	1	2
Average	3	-	-	-	1	-	-	-	1	-	-	2	-	-	2	1	2

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

Instruction Hours / Week: L:6 T:0 P:0

Marks: Internal:40 External:60 Total:100  
End Semester Exam: 3 Hours

**PREREQUISITE:**

- Basic economic concepts such as demand and supply, production, cost, and revenue functions.

**COURSE OBJECTIVES (CO):**

- To understand decision-making, consumer behavior, and demand-supply analysis.
- To analyze production, cost functions, and revenue models.
- To study market types, pricing, and economic policies.

**COURSE OUTCOMES (COs):**

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

COs	Course Outcomes	Blooms Level
CO1	Gain knowledge on concept of demand and supply & understand the concept of production, cost and revenue function	Understand
CO2	Know the pricing policies adopted in various market structures	Understand
CO3	Estimate impact of inflation on business cycle and personal disposable income	Analyze
CO4	Assess impact of monetary and fiscal policy on economic development	Evaluate
CO5	Enable students to obtain managerial problem-solving skills	Analyze

**UNIT - I MANAGERIAL ECONOMICS: LAW OF DEMAND AND SUPPLY**

**14 HOURS**

Introduction – Meaning - Nature and Scope of Managerial Economics - Significance in Decision Making. Consumer’s Behavior and Demand: Meaning of Consumer’s Equilibrium – Utility approach – Law of Equilibrium – Marginal utility–Consumers Surplus–Concept of Demand–Types of Demand–Determinants – Law of Demand – Exceptions to Law of Demand – Change in Demand – Elasticity of Demand – Types – Measurement of Price elasticity of demand. Concept of Supply – Determinants of Supply – Law of Supply – Change in Supply – Elasticity of Supply –Types.

**UNIT - II PRODUCTION, COST AND REVENUE FUNCTION**

**14 HOURS**

Producer’s Behaviour and Supply - Basic concepts in production – Firm – Fixed and Variable Factors – Short and Long run – Total Product – Marginal Product – Average Product – Production Function – Law of Returns – Law of Returns to Scale – Economies and Diseconomies of Scale – Producer’s Equilibrium. **Cost and Revenue Function:** Cost of Production – Opportunity cost – Fixed and Variable Costs–Total Cost Curves – Average Cost Curves – Marginal Cost – Long run and Short run Cost Curves – Total Revenue – Average Revenue – Marginal Revenue – Break Even Point Analysis.

**UNIT - III MARKET COMPETITION AND PRICE STRUCTURES**

**14 HOURS**

Forms of Market – Basis of Classification–Perfect - Competition – Features – Short Run and Long Run Equilibrium – Price Determination – Monopoly Market – Features – Short Run and Long Run Equilibrium – Predatory pricing - Price Discrimination – Degrees of Price Discrimination- Pricing objectives and Pricing Methods. Oligopoly Market Competition–Features – Price Leadership–Price Rigidity–Cartel– Collusive and Non-Collusive oligopoly – Oligopoly – Features – Monopolistic Competition – Features–Product Differentiation–Selling Cost– Short Run and Long Run Equilibrium–Monopsony- Duopoly Market – Features.

**UNIT - IV MACRO-ECONOMIC INDICATORS**

**15 HOURS**

Production Method – Income Method – Expenditure Method Phases of Business Cycle – Causes of cyclical movements – Price Movements: Inflation, Deflation, and Deflation – Types of Inflation – Effects of Inflation

– Control of Inflation- Difference between Normal Residents and Non-Residents – Domestic territory – Gross and Net Concepts of Income and Product – Market price and Factor Cost – Factor Payments and Transfer Payments–National Income Aggregates–Private Income– Personal Income– Personal Disposable Income – National Disposable Income – Measurement of National Income.

**UNIT - V MONETARY POLICY AND FISCAL POLICY**

**15 HOURS**

Objectives of Monetary Policy – Types of Monetary Policy – Instruments of Monetary Policy – Objectives of Fiscal Policy – Types of Fiscal Policy – Instruments of Fiscal Policy – Budget Preparation – Financial Stimulus. Balance of Trade and Balance of Payments – Current Account and Capital Account of BOP – Disequilibrium in BOP.

**TOTAL 72 HOURS**

**TEXT BOOKS:**

1. Varshney and Maheshwari, (2014). *Managerial Economics*, Sultan Chand and Sons, New Delhi.
2. Mehta, P, (2016). *Business Economics*, Sultan Chand and Sons, New Delhi

**REFERENCE BOOKS:**

1. Geetika and Piyali Ghosh (2017), *Managerial Economics*, 3rd edition , McGraw Hill Education, New Delhi.
2. Christopher R.Thomas and S.Charles Maurice (2017), *Managerial Economics : foundation of business analysis and strategy*, 10th edition, McGraw Hill Education, New Delhi
3. Paul Samuelson, William D. Nordhaus (2017), *Micro Economics*, 19th edition, McGraw Hill Education, New Delhi
4. William F. Samuelson, Stephen G. Marks (2013), *Managerial Economics*, 6th edition, Wiley, New Delhi

**WEBSITES:**

1. [https://swayam.gov.in/nd1\\_noc20\\_mg67/preview](https://swayam.gov.in/nd1_noc20_mg67/preview)
2. [https://swayam.gov.in/nd2\\_imb20\\_mg38/preview](https://swayam.gov.in/nd2_imb20_mg38/preview)

**CO, PO, PSO Mapping**

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	P011	P012	P013	P014	P015	PSO1	PSO2
CO1	3	-	-	-	-	-	-	-	-	1	-	-	-	-	-	1	1
CO2	3	-	-	-	1	-	-	-	-	-	-	-	-	-	-	1	1
CO3	3	-	2	-	-	-	-	-	-	-	-	-	-	-	-	2	1
CO4	3	-	2	-	-	-	-	-	1	-	-	-	-	-	-	2	1
CO5	3	-	-	1	-	-	-	-	-	-	-	-	-	-	1	1	1
<b>Average</b>	<b>3</b>	<b>-</b>	<b>2</b>	<b>1</b>	<b>1</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>1</b>	<b>1</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>1</b>	<b>1.4</b>	<b>1</b>

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

**PREREQUISITE:**

Not Required

**COURSE OBJECTIVES (CO):**

- To master basic statistical techniques like frequency distributions, descriptive statistics, and reliability testing using SPSS.
- To apply hypothesis tests and analyze data with methods such as t-tests, ANOVA, and chi-square tests in SPSS.
- To conduct advanced analyses using SPSS, including regression, factor analysis, and ranking methods to extract detailed insights from data.

**COURSE OUTCOMES (COs):**

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

COs	Course Outcomes	Blooms Level
CO1	Compute descriptive statistics & parametric and non-parametric tests	Analyze
CO2	Carryout reliability and normality tests	Analyze
CO3	Comprehend the application of Bivariate and multivariate Analysis	Understand
CO4	Compute bivariate and multivariate analysis	Analyze
CO5	Apply statistical techniques on decision making	Apply

**EXERCISES**

- |                                 |                |
|---------------------------------|----------------|
| 1. Simple Frequency             | <b>5 HOURS</b> |
| 2. Descriptive Statistics       | <b>5 HOURS</b> |
| 3. Test of Reliability          | <b>4 HOURS</b> |
| 4. Test of Normality            | <b>4 HOURS</b> |
| 5. Independent 't' Test         | <b>5 HOURS</b> |
| 6. Analysis of Variance (ANOVA) | <b>5 HOURS</b> |
| 7. Paired 't' Test              | <b>5 HOURS</b> |
| 8. Chi-square                   | <b>5 HOURS</b> |
| 9. Mann Whitney U Test          | <b>4 HOURS</b> |
| 10. Kruskal Wallis H Test       | <b>4 HOURS</b> |
| 11. Wilcoxon Test               | <b>4 HOURS</b> |
| 12. Correlation                 | <b>4 HOURS</b> |
| 13. Regression                  | <b>6 HOURS</b> |
| 14. Factor Analysis             | <b>6 HOURS</b> |
| 15. Garrett Ranking             | <b>6 HOURS</b> |

**TOTAL: 72 HOURS**

**TEXT BOOKS:**

1. Darren George, Paul Mallery (2016), *IBM SPSS Statistics 23 Step by Step*, Routledge, New Delhi.
2. Asthana and Braj Bhushan (2017), *Statistics for Social Sciences (With SPSS Applications)*, Prentice Hall of India, New Delhi

**REFERENCE BOOKS:**

1. Keith McCormick, Jesus Salcedo, Aaron Poh, *SPSS Statistics for Dummies, 3rd Edition*, Wiley, New Delhi.
2. Keith McCormick, Jesus Salcedo, Jon Peck, Andrew Wheeler, Jason Verlen (2017), *SPSS Statistics for Data Analysis and Visualization*, Wiley, New Delhi.
3. Brian C. Cronk (2016), *How to Use SPSS®: A Step-By-Step Guide to Analysis and Interpretation*, 9th Edition, Routledge, New Delhi

**CO, PO, PSO Mapping**

<b>Cos</b>	<b>PO1</b>	<b>PO2</b>	<b>PO3</b>	<b>PO4</b>	<b>PO5</b>	<b>PO6</b>	<b>PO7</b>	<b>PO8</b>	<b>PO9</b>	<b>PO10</b>	<b>P011</b>	<b>P012</b>	<b>P013</b>	<b>P014</b>	<b>P015</b>	<b>PSO1</b>	<b>PSO2</b>
CO1	3	-	-	-	3	3	-	-	-	2	3	-	-	-	3	3	3
CO2	3	-	-	-	3	3	-	-	-	-	3	-	-	-	3	2	3
CO3	3	-	-	-	3	3	-	-	-	2	3	-	-	-	3	3	3
CO4	3	-	-	-	3	3	-	-	-	2	3	-	-	-	3	2	3
CO5	3	-	-	-	3	3	-	-	-	-	3	-	-	-	3	3	3
<b>Average</b>	<b>3</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>3</b>	<b>3</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>2</b>	<b>3</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>3</b>	<b>2.6</b>	<b>3</b>

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

**PREREQUISITE:**

- Familiarity with basic banking concepts and an understanding of financial technology is essential to comprehend digital banking, including key technologies, payment systems, virtual banking, and future fintech trends.

**COURSE OBJECTIVES (CO):**

- To understand digital banking evolution, key technologies, and regulatory frameworks.
- To learn about mobile and internet banking, digital payments, and security features.
- To explore innovations like AI, blockchain, and emerging trends in digital banking.

**COURSE OUTCOMES (COs):**

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

Cos	Course Outcomes	Blooms Level
CO1	Understand the differences between traditional and digital banking, and the benefits and challenges associated with digital banking technologies.	Understand
CO2	Analyze the features, risks, and security measures of mobile and internet banking services.	Analyze
CO3	Apply the principles of digital payment systems, including the use of e-wallets, UPI, and QR codes, in practical banking scenarios.	Apply
CO4	Evaluate the development, advantages, and limitations of virtual banks and neo-banks, and their regulatory requirements.	Evaluate
CO5	Create strategies to leverage future trends in digital banking, including the integration of fintech innovations, AI, and blockchain technologies.	Apply

**UNIT- I INTRODUCTION TO DIGITAL BANKING****14 HOURS**

Overview of Digital Banking - Definition and evolution of digital banking - Differences between traditional and digital banking - Benefits and challenges of digital banking. Key Technologies in Digital Banking - Mobile apps, APIs, and cloud computing - Artificial intelligence and machine learning in banking - Blockchain and its applications in banking. Regulatory Framework - Regulatory bodies and compliance requirements - Key regulations and guidelines for digital banking - Data privacy and security laws.

**UNIT - II DIGITAL BANKING SERVICES****14 HOURS**

Mobile Banking - Overview and brief history of Mobile Banking, Product features & diversity of Mobile Banking, Immediate Payment Service (IMPS), Risk Management & Frauds related to Mobile Banking, Benefits of providing Mobile Banking Services. Internet Banking: Overview and brief history of Internet Banking, its Products and their features, Types of Risks associated with Internet Banking, Technology and Security Standards for Internet Banking, Legal issues involved in Internet Banking

**UNIT – III DIGITAL PAYMENT SYSTEMS****14 HOURS**

Introduction to Digital Payment Systems - Overview and evolution of digital payment systems - Benefits and challenges of digital payments. E-Wallets - Security features and risks. Unified Payments Interface (UPI) - Concept and objectives of UPI - Architecture, processes, and transaction flow – Features, interoperability, real-time transactions, - Major applications: BHIM, PhonePe, Google Pay - Impact on banking and payment ecosystem - Regulatory framework. QR Codes - Introduction to QR codes in payments - Types: static and dynamic - Mechanism: scanning, processing, confirmation - Advantages for businesses and consumers - Implementation in retail and e-commerce - Security concerns and measures.

**UNIT - IV VIRTUAL BANKING AND NEO-BANKS****15 HOURS**

Introduction to Virtual Banking - Definition and characteristics - Differences from traditional banking - Benefits and limitations. Neo-Banks - Definition and evolution - Business models: customer-centric, digital-first - Key features: mobile-first, low fees, personalized services - Comparison with traditional banks and fintech companies - Regulatory environment: licensing and compliance - Major neo-banks: Chime, Revolut, Monzo, N26, Technology Infrastructure - Core banking systems for virtual banks and neo-banks - Role of cloud computing - APIs and open banking - Cyber security measures - AI and machine learning for personalized banking.

**UNIT - V FUTURE TRENDS IN DIGITAL BANKING****15 HOURS**

Fintech Innovations - Role of fintech in shaping the future of banking - Key fintech innovations and their impact on traditional banking - Collaboration between banks and fintech companies. Artificial Intelligence and Machine Learning - AI applications in banking (chatbots, robo-advisors) - Predictive analytics for customer insights and decision-making. Blockchain and Distributed Ledger Technologies - Future applications of blockchain in banking - Smart contracts and their potential in financial services. Emerging Trends and Challenges - Open banking and API banking - The impact of digital banking on financial inclusion - Ethical and regulatory challenges in the future of digital banking.

**TOTAL 72 HOURS****TEXT BOOKS:**

1. Chris Skinner (2014) Bank: Strategies To Succeed As A Digital Bank: Strategies to Launch or Become a Digital Bank, MC Publisher, India
2. Brett King (2018) Bank 4.0: Banking everywhere, never at a bank, Marshall Cavendish International (Asia) Pte Ltd, UK

**REFERENCE BOOKS:**

1. Indian Institute of Banking and Finance, Digital Banking, Taxmann
2. Lohana Sarika R(2019)., Digital Banking and Cyber Security. New Century Publications
3. Singh Jaspal(2018)., Digital Payments in India: Background, Trends and Opportunities, New Century Publications
4. Rao K. Srinivasa(2015)., Changing Dimensions of Banking in India, Notion Press.

**CO, PO, PSO Mapping**

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

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

**PREREQUISITE:**

- Basic understanding of accounting principles, business mathematics, economics, and general business management functions.

**COURSE OBJECTIVES (CO):**

- To introduce core concepts and functions of financial management, including financial goals and the evolving role of finance managers.
- To develop the ability to apply time value of money, risk-return trade-off, and capital budgeting techniques in decision-making.
- To equip students with knowledge of capital structure, financing options, and dividend policy for strategic financial planning.

**COURSE OUTCOMES(COs):**

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

COs	Course Outcomes	Blooms Level
CO1	Understand the financial goals, role of finance manager, and governance in corporate finance.	Understand
CO2	Apply time value of money and risk-return analysis in financial decision-making.	Apply
CO3	Evaluate investment decisions using capital budgeting tools and cost of capital concepts.	Evaluate
CO4	Analyze capital structure decisions and theories to determine optimal financing mix.	Analyze
CO5	Examine various dividend policies and understand corporate dividend behavior.	Understand

**UNIT I: Financial Goals of the Firm**

**14 HOURS**

Financial Management – Introduction to finance, objectives of financial management – Firm Value and equity value– profit maximization and wealth maximization - Changing role of finance managers - Organization of finance function. Agency model; problem and agency cost – Stockholders and Managers; bondholders and society - Disciplining management through corporate governance - Sustainability model.

**UNIT II: Time Value of Money**

**14 HOURS**

Present and future value of single payments, annuities, annuities due, and perpetuities - Growth in annuities and perpetuities - Compound interest and continuous compounding - Annual percentage rates and effective annual rates - Mathematics of loans: Discount, Interest only, Full and partial amortization Concepts of Risk and Return – Diversifiable and Non-Diversifiable risk - Risk & return of single asset, risk and Return of a portfolio, Measurement of market risk for single asset and portfolio.

**UNIT III: Capital Budgeting & Financing Decisions**

**14 HOURS**

Investment Rules: Capital budgeting methods and their limitations - Comparing projects with varying lives with varying cash flows - Capital budgeting decision rules. Sources of long term funds Cost of capital – basic concepts. Cost of debenture capital, cost of preferential capital, cost of term loans, cost

of equity capital (Dividend discounting and CAPM model). Cost of retained earnings. Determination of Weighted average cost of capital (WACC) and Marginal cost of capital.

#### UNIT IV: Capital Structure

**15 HOURS**

Capital structure decisions – Overview of financing choices –The financing process; internal and external financing - Operational and financial leverage - Business risk and its effect on the use of financial leverage - Determination of the optimal capital structure - Modigliani and Miller Propositions I and II - Theories for determining optimal capital structure - Static theory - Signaling theory - Pecking order theory - Other factors affecting capital structure - Corporate finance in practice –Planning the capital structure: EBIT and EPS analysis. ROI & ROE analysis. Capital structure policy (No capital structure theories to be covered)

#### UNIT V: Dividend policy

**15 HOURS**

Dividend policy – factors affecting the dividend policy - dividend policies- stable dividend, stable payout. Theories of dividend policy: relevance and irrelevance dividend decision. Walter’s and Gordon’s model, Modigliani and Miller approach. Dividend policies – stable dividend, stable payout and growth. Bonus shares and stock split corporate dividend behavior. Legal and procedural aspects of dividends Corporate Dividend Distribution Tax- empirical evidence of dividend policy. Analyzing cash returned to the stockholders - cash flow approach and comparable firm approach

**TOTAL 72 HOURS**

#### TEXT BOOKS:

1. Prasanna Chandra – Financial Management: Theory and Practice, Tata McGraw Hill, 7<sup>th</sup> Edition
2. I.M. Pandey – Financial Management, Vikas Publishing, 9<sup>th</sup> Edition
3. Brigham & Houston – Fundamentals of Financial Management, Thomson Cengage Learning

#### REFERENCE BOOKS:

1. M.Y. Khan & P.K. Jain – Financial Management, TMH, 5<sup>th</sup> Edition
2. Aswath Damodaran – Corporate Finance, John Wiley & Co., 2<sup>nd</sup> Edition
3. Van Horne – Financial Management & Policy, Pearson/PHI, 11<sup>th</sup> Edition

#### 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	3	1	1	-	-	-	-	1	-	-	-	2	-	3	2
CO2	3	2	3	2	2	-	-	-	-	1	-	-	-	3	-	3	3
CO3	3	2	3	3	2	-	-	-	-	1	-	-	-	3	-	3	3
CO4	3	2	3	3	2	-	-	-	-	1	-	-	-	3	-	3	3
CO5	3	1	2	2	2	-	-	-	-	1	-	-	-	2	-	2	2
AVG	3	1.8	2.8	2.2	1.8	-	-	-	-	1	-	-	-	2.6	-	2.8	2.6

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

**PREREQUISITE:**

Basic knowledge of financial management, including cash flow analysis, investment strategies, and risk management.

**COURSE OBJECTIVES (CO):**

- To understand the basics, objectives, and regulations affecting treasury operations.
- To analyze cash flow forecasting, liquidity management, and bank relationships to improve cash management efficiency.
- To apply and evaluate investment strategies for both short-term and long-term to optimize corporate investments.

**COURSE OUTCOMES (COs):**

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

COs	Course Outcomes	Blooms Level
CO1	Understand the role and significance of treasury management, including the impact of regulatory changes on treasury operations.	Understand
CO2	Analyze and develop effective strategies for cash flow forecasting, liquidity management, and maintaining strong bank relationships.	Apply
CO3	Apply investment policies to manage both short-term and long-term corporate investments, considering risk and return.	Apply
CO4	Evaluate financial risks such as interest rate and foreign exchange risks, and utilize appropriate hedging instruments to mitigate these risks.	Evaluate
CO5	Create and implement comprehensive frameworks for measuring treasury performance, leveraging technology, and incorporating sustainable practices.	Apply

**UNIT - I INTRODUCTION TO TREASURY MANAGEMENT**

**14 HOURS**

Overview of Treasury Management - Definition and objectives of treasury management - Role and importance of the treasury function in organizations - Evolution of treasury management. Treasury Organization and Structure - Centralized vs. decentralized treasury management - Organizational structure of the treasury department - Roles and responsibilities of treasury professionals. Regulatory Environment - Overview of regulations affecting treasury operations - Compliance with financial regulations (Basel III, Dodd-Frank Act, etc.) - Impact of regulatory changes on treasury management.

**UNIT- II CASH MANAGEMENT**

**14 HOURS**

Cash Management - Cash Flow Forecasting - Importance of cash flow forecasting - Techniques for cash flow forecasting - Managing cash flow volatility. Liquidity Management - Strategies for effective liquidity management - Tools and techniques for managing liquidity - Short-term financing options. Bank Relationship Management - Selection and evaluation of banking partners - Negotiating banking services and fees - Managing multiple banking relationships. Payment Systems and Technologies - Overview of payment systems (SWIFT, ACH, RTGS, etc.) - Emerging payment technologies and trends - Fraud prevention and cybersecurity in payments.

**UNIT - III INVESTMENT MANAGEMENT**

**14 HOURS**

Investment Management- Investment Policy and Strategy - Formulating an investment policy - Objectives of corporate investments: safety, liquidity, yield - Risk and return considerations. Short-term Investment Options - Money market instruments (T-bills, commercial paper, certificates of deposit, etc.) - Fixed income securities - Managing a short-term investment portfolio. Long-term Investment Strategies - Capital

budgeting and project evaluation - Evaluating long-term investment opportunities - Risk assessment and mitigation in long-term investments.

**UNIT IV RISK MANAGEMENT IN TREASURY**

**15 HOURS**

Introduction to Financial Risk Management - Types of financial risks: interest rate risk, currency risk, credit risk, liquidity risk - Identifying and assessing financial risks. Hedging Strategies and Instruments - Derivatives in risk management: forwards, futures, options, swaps - Using hedging instruments to mitigate risk. Interest Rate Risk Management - Understanding interest rate risk - Tools for managing interest rate risk - Impact of interest rate changes on financial performance. Foreign Exchange Risk Management - Foreign exchange markets and exchange rate mechanisms - Techniques for managing currency exposure - Cross-border cash management.

**UNIT - V TREASURY PERFORMANCE MEASUREMENT AND EMERGING TRENDS**

**15 HOURS**

Treasury Performance Metrics - Key performance indicators (KPIs) for treasury - Benchmarking treasury performance - Continuous improvement in treasury operations. Technology in Treasury Management - Role of technology in modern treasury management - Treasury Management Systems (TMS) - Trends in fintech and their impact on treasury. Sustainable and Ethical Treasury Practices - Incorporating ESG (Environmental, Social, Governance) criteria in treasury operations - Ethical considerations in treasury management. Future Trends in Treasury Management - Impact of digital transformation on treasury functions - Blockchain and crypto currency in treasury management - Predictive analytics and AI in treasury decision-making.

**TOTAL: 72 HOURS**

**TEXT BOOKS:**

1. Steven M. Bragg (2010) Treasury Management: The Practitioner’s Guide, Wiley; 1<sup>st</sup> edition
2. Rajiv Rajendra (2013) The Handbook of Global Corporate Treasury, John Wiley & Sons Inc; 1<sup>st</sup> edition

**REFERENCE BOOK:**

1. Marie Dolfe and Erwin W. Erhardt, International Cash Management, Springer E-books

**CO, PO, PSO Mapping**

Cos	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	P011	P012	P013	P014	P015	PSO1	PSO2
CO1	3	-	-	-	-	-	-	-	-	-	3	-	-	-	3	3	-
CO2	3	-	2	-	-	-	-	-	-	-	3	-	-	-	3	3	2
CO3	3	-	2	-	-	1	-	-	-	-	3	-	-	-	3	3	2
CO4	3	-	2	-	-	1	-	-	-	-	3	-	-	-	3	3	2
CO5	3	-	-	-	-	-	-	-	-	-	3	-	-	-	3	3	2
<b>Average</b>	<b>3</b>	<b>-</b>	<b>2</b>	<b>-</b>	<b>-</b>	<b>1</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>3</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>3</b>	<b>3</b>	<b>2</b>

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

Instruction Hours / Week: L:6 T:0 P:0

Marks:Internal:40 External:60 Total:100  
End Semester Exam: 3 Hours**PREREQUISITE:**

A basic understanding of risk management and insurance principles is crucial for grasping risk types, applying pricing strategies, and designing insurance products.

**COURSE OBJECTIVES (CO):**

- Understand risk concepts and types, including business and personal risks.
- Apply insurance pricing and marketing principles, focusing on life and health insurance.
- Identify and analyse factors affecting insurance organizations, and design insurance products considering risk and future trends.

**COURSE OUTCOMES (COs):**

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

COs	Course Outcomes	Blooms Level
CO1	Understand the concept of risk, its interpretations, and the types of business and personal risks.	Understand
CO2	Apply principles of insurance pricing and marketing, including tools and techniques used in pricing life and health insurance.	Apply
CO3	Identify factors influencing insurance organizations, such as insurable interest, riders in policies, and the role of rural insurance	Evaluate
CO4	Design and develop insurance products, considering risk evaluation and future trends	Analyze
CO5	Analyze the impact of privatization and reforms in the Indian insurance industry on economic growth.	Analyze

**UNIT - I RISK****14 HOURS**

Introduction, interpretations of the term risk, types of business and personal risks, significance of risk management function within business organizations Insurance and Risk - significance of insurance and risk, general structure of the insurance market, significant aspects of this industry

**UNIT - II INSURANCE PRICING AND MARKETING****14 HOURS**

Principles of insurance pricing and marketing, tools and techniques used in pricing individual life and health insurance- Financial Management in Insurance Companies and Insurance a Ombudsman: importance of financial management in insurance companies, tools of managing expenses in the insurance companies, modes used by the insurance companies in channelizing their funds Reinsurance: reinsurance in the insurance sector. Areas of the application of reinsurance. Information Technology in Insurance - application of information technology in the insurance sector, role of insurance companies in insurance security, contours of the future of insurance in rural areas.

**UNIT – III LIFE INSURANCE & NON-LIFE INSURANCE****14 HOURS**

Factors influencing the key functioning of insurance organizations insurable interest, role of riders in insurance policies - Non-life Insurance - elements of fire insurance contract and its ancillary features. Significance of marine insurance and its various policies, the role of rural insurance in making people's lives better in rural India -Non-life Insurance - II - types of motor insurance policies, critical aspects of aviation industry in the country, significance of liability insurance in India - Nomination - Assignment .Functions and

Organization of Insurers - components of the distribution system of life insurance companies in the country, role of agents in the life insurance sector in India, important activities carried out in a life insurance organization.

#### **UNIT – IV PRODUCT DESIGN AND DEVELOPMENT**

**15 HOURS**

Product development in the life and non-life insurance sectors in India, role of risk evaluation in the process of insurance product formation, future trends in the domain of insurance product design and development - Insurance Underwriting - need for insurance underwriting, factors that affect the activities performed by the underwriter, steps involved in the process of insurance underwriting - Claims Management: factors affecting the insurance claim management system, types of documents needed in various types of claims, meaning of - Causa Proxima in insurance claim settlement. Human Life Values - Embedded Value - Actuarial valuation

#### **UNIT V RETIREMENT BENEFITS PLANNING**

**15 HOURS**

Reforms in Indian Insurance Industry: Importance of the privatization of insurance industry, problems associated with public insurance enterprises, relation between insurance and economic growth. Regulations Relating to Insurance Accounting and Management - framework for IRDA rules and regulations regarding general insurance investment in the country, role of financial reporting in managing insurance operations, significance of determining solvency margins Recent Guidelines of IRDA.

**TOTAL: 72 HOURS**

#### **TEXT BOOKS:**

1. George E. Rejda , Michael McNamara (2017), Principles of Risk Management and Insurance, 13th Edition, Pearson Education, New Delhi.

#### **REFERENCE BOOKS:**

1. Scott Harrington and Gregory Niehaus (2017), Risk Management and Insurance, 2 nd Edition, McGraw Hill, New Delhi
2. Dorfman (2013), Introduction to Risk Management and Insurance, Prentice Hall, New Delhi
3. Indian Institute of Banking and Finance (2017), Risk Analysis, Insurance and Retirement Planning, Taxman Publications Pvt. Ltd.

#### **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	1
CO2	3	-	-	1	1	-	-	-	-	-	-	-	-	-	-	2	2
CO3	3	-	2	-	-	-	-	-	-	-	-	-	1	-	-	2	1
CO4	3	-	-	1	1	-	-	-	-	-	-	-	-	-	-	2	2
CO5	3	-	2	-	-	-	1	-	-	-	-	-	-	1	1	2	2
<b>Average</b>	<b>3</b>	<b>-</b>	<b>2</b>	<b>1</b>	<b>1</b>	<b>-</b>	<b>1</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>2</b>	<b>1.6</b>

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

Instruction Hours / Week: L:6 T:0 P:0

Marks:Internal:40 External:60 Total:100  
End Semester Exam: 3 Hours**PREREQUISITE:**

Students should have understanding of electronic commerce, network infrastructure, applications, security frameworks, and directory services is essential for students.

**COURSE OBJECTIVES (CO):**

- Learn the fundamentals of electronic commerce and network infrastructure.
- Gain knowledge of security frameworks and directory services
- Apply practical skills in electronic commerce applications.

**COURSE OUTCOMES (COs):**

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

COs	Course Outcomes	Blooms Level
CO1	Gain an introductory knowledge on electronic commerce	Understand
CO2	Describe about knowledge on Network Infrastructure	Understand
CO3	Gain applications knowledge on electronic commerce	Understand
CO4	Gain knowledge on security framework	Analyze
CO5	Gain essential knowledge on directory services	Apply

**UNIT - I INTRODUCTION TO E-COMMERCE****14 HOURS**

Electronic Commerce and its Benefits – Impact of Electronic Commerce - Classification of Electronic Commerce - Applications of Electronic Commerce Technologies - Business Models - Architectural Framework.

**UNIT - II NETWORK INFRASTRUCTURE****14 HOURS**

Network Infrastructure- Local Area network- wide Area Network & Intranet, Extranet and Internet - TCP/IP Reference Model - Domain Name Systems - Internet Industry Structure. Information Distribution and Messaging: File Transfer Protocol Applications - Electronic Mail - World Wide Web Server - HTTP - Web servers Implementations.

**UNIT- III CONSUMER ORIENTED APPLICATIONS****14 HOURS**

Consumer Oriented Application, Mercantile Models from the Consumer's perspective - Types of Electronic Payment System, Digital Token based Electronic Payment Systems, Smart Cards Electronic Payments, and Designing Electronic Payment system.

**UNIT- IV SECURING THE BUSINESS ON INTERNET****15 HOURS**

Security Policy, Procedures and Practices - Site Security - Protecting the Network - Firewalls - Securing the Web Service - Security Network Transaction - Transaction Security - Cryptology - Cryptology Algorithms - Public Key Algorithm - Authentication Protocols - Digital Signatures Electronic Mail Security - Security Protocols for Web Commerce.

**UNIT - V SEARCH ENGINES AND DIRECTORY SERVICES****15 HOURS**

Search Engines and Directory Services - Information Directories - Internet Advertising - Electronic commerce Applications - Cyber Law - Introduction - Concept of Cyberspace - Cyber Law in electronic commerce contract Aspects - Electronic Governance - Drupal.

**TOTAL 72 HOURS**

**TEXT BOOKS:**

1. Bhasker, B. (2017). Electronic Commerce Framework, Technologies and Applications. New Delhi: McGraw Hill Educations.
2. Jaiswal.S. (2000). E-Commerce IElectronic Communication for Business). New Delhi:.

**REFERENCE BOOKS:**

1. Kalakota, R., & Whinston, A. B. (2002). Frontiers of Electronic Commerce. New Delhi: Pearson Education India.
2. Rayudu, C. (2010). E-Commerce and E-Business. Mumbai: Himalaya Publishing House
3. Rayport, & Jaworeski, B. J. (2009). Introduction to E-Commerce. Noida , UP: McGraw Hill Publishing Company Limited
4. Tomasi, W. (2008). Electronic Communication Systems Fundamentals Through Advanced. New Delhi: Pearson Education
5. Viswanathan, S. (2012). The Indian Cyber Law. New Delhi: Bharat Law House.

**WEBSITE:**

1. [https://swayam.gov.in/nd1\\_noc20\\_mg15/preview](https://swayam.gov.in/nd1_noc20_mg15/preview)

**CO, PO, PSO Mapping**

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	P011	P012	P013	P014	P015	PSO1	PSO2
CO1	3	-	-	-	2	-	-	-	-	2	-	-	-	-	1	1	2
CO2	3	-	1	-	2	-	-	-	-		-	-	-	-	-	1	2
CO3	3	-	-	1	-	-	-	-	-	2	-	-	-	-	-	1	2
CO4	3	-	-	-	2	-	-	1	-	-	-	-	-	-	1	1	2
CO5	3	-	-	-		1	-	-	-	2	-	-	-	-	-	1	2
<b>Average</b>	<b>3</b>	<b>-</b>	<b>1</b>	<b>1</b>	<b>2</b>	<b>1</b>	<b>-</b>	<b>1</b>	<b>-</b>	<b>2</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>1</b>	<b>1</b>	<b>2</b>

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

Instruction Hours/week: L:0 T:0 P:18

Marks: Internal:120 External:180 Total:300

End Semester Exam: 3 Hours

**PREREQUISITE:**

- Not required

**COURSE OBJECTIVES (CO):**

- Choose the right problem of study and sampling technique, and construct instruments for data collection.
- Carry out statistical analysis and write interpretations of the results.
- Draft a comprehensive project report based on the analysis.

**COURSE OUTCOMES (CO's):**

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

COs	Course outcomes	BloomsLevel
CO1	Choosetherightproblemofthestudy&tochooseright samplingtechnique	Understand
CO2	Constructinstrumentfordatacollection	Create
CO3	Carryout their statistical analysis	Analyze
CO4	Writetheinterpretationforstatisticalanalysis	Evaluate
CO5	Drafttheirproject report	Create

The students should select a problem in Accounting, Finance, Marketing or any other areas related to commerce.

Reportshouldcontain

- ❖ Introduction
  - Introductionabouttheindustry
  - IntroductionabouttheCompany
  - Reviewofliterature–Minimum10papersfromreferredjournal
  - NeedfortheStudy
  - Objectives
- ❖ ResearchMethodology
  - ResearchDesign
  - SamplingDesign
  - SourcesofDataCollection
  - Toolsusedforanalysis
  - Limitation
- ❖ Dataanalysisandinterpretation
- ❖ FindingsandSuggestions
- ❖ Conclusion
- ❖ Bibliography(APAformat)

## 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	2	3	-	-	-	1	-	-	-	-	-	-	1	2
CO2	3	1	-		3	1	-	-	-	1	-	-	-	-	-	1	2
CO3	3	-	-	2	3	3	-	1	-	-	1	-	-	-	2	1	2
CO4	3	-	1	2	3	-	-	-	1	-	-	-	-	-	-	1	2
CO5	3	1	-	-	-	-	-	-	-	-	1	-	-	1	-	1	2
<b>Avg</b>	<b>3</b>	<b>1</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>2</b>	<b>-</b>	<b>1</b>	<b>2</b>	<b>1</b>	<b>3</b>	<b>-</b>	<b>-</b>	<b>1</b>	<b>2</b>	<b>1</b>	<b>2</b>

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