



BACHELOR OF COMMERCE (COMPUTER APPLICATIONS) PROGRAMME

CODE: BP

**CHOICE BASED CREDIT SYSTEM (CBCS) &
LEARNING OUTCOMES-BASED CURRICULUM FRAMEWORK (LOCF)**

SCHEME OF EXAMINATION & SYLLABUS

(w.e.f 2026-2027 onwards)

REGULATIONS 2026

UNDERGRADUATEPROGRAMMES**(a) QualificationDescriptors**

AlignedwithNHEQFLevel6(Bachelor’sDegreeLevel).

A Bachelor’s Degree signifies that a learner has completed a structured programme of study thatdevelops disciplinaryknowledge,professional competence, transferableskills andethical values.

Graduatesareexpectedtodemonstrate:

- Asystematicunderstandingofthedisciplineanditslinkages withrelatedfields
- Proceduralandprofessionalknowledgerelevanttoemployment,highereducationand public service
- Ability to identify problems,collectandanalyzedata,anddevelopevidence-based solutions
- Effectivecommunicationofacademicandprofessional work
- Capacityforself-directed learningandadaptationtonewcontexts
- Abilityto applydisciplinaryknowledge and transferable skillsin real-worldcontexts
- Developmentofemployabilityskillsrelevanttoprofessionalcareers

(b) GraduateAttributes (GAs)

GACode	GraduateAttributes
GA1	DisciplinaryKnowledge
GA2	CommunicationSkills
GA3	CriticalThinking
GA4	ProblemSolving
GA5	AnalyticalReasoning
GA6	Research-relatedSkills
GA7	Cooperation/Teamwork
GA8	ScientificReasoning
GA9	ReflectiveThinking
GA10	Information/DigitalLiteracy
GA11	Self-DirectedLearning
GA12	MulticulturalCompetence
GA13	MoralandEthical Awareness/Reasoning
GA14	LeadershipReadiness
GA15	LifelongLearning

(c) GAs–Written Measured

These GAs are directly measurable through written examinations, assignments, or structured theory evaluation.

GA	Attribute	Measure	Assessment Method
GA1	Disciplinary Knowledge	Strongly	Theory examinations, concept-based questions, structured problem solving
GA3	Critical Thinking	Strongly	Case analysis, reasoning questions
GA4	Problem Solving	Strongly	Application-oriented problems, scenario-based questions
GA5	Analytical Reasoning	Strongly	Data interpretation, logical analysis, numerical exercises
GA6	Research-related Skills	Partially	Research oriented questions, data interpretation, literature review writing
GA8	Scientific Reasoning	Partially	Evidence-based explanations, logical justification questions
GA9	Reflective Thinking	Limited	Short reflective writing responses
GA10	Information/Digital Literacy	Limited	Application of digital tools and information ethics

(d) GAs–Performance based

These require observation of behaviour, participation, skill demonstration, or real-time engagement.

GA	Attribute	Measure	Assessment Method
GA2	Communication Skills	Strongly	Presentations, seminars, viva voce, group discussions
GA7	Cooperation/Teamwork	Strongly	Group projects, peer evaluation, collaborative assignments
GA11	Self-Directed Learning	Limited	Independent assignment/Project work/Online learning task
GA12	Multicultural Competence	Partially	Group activities with diverse teams/Fieldwork/Community engagement, Participation in cultural activities,
GA13	Moral and Ethical Awareness/Reasoning	Partially	Behavioural observation methods, Reflective reports
GA14	Leadership Readiness	Limited	Team leadership in project, Event coordination
GA15	Lifelong Learning	Limited	Participation in value added courses, certification

DepartmentofBCom(ComputerApplications)

Vision

- To develop competent commerce graduates with strong computer application skills, ethical values, and an innovative mindset, empowering young women to become self-reliant professionals, entrepreneurs, and socially responsible leaders in the digital business environment.

Mission

- To provide quality education in commerce integrated with computer applications and modern business technologies.
- To equip students with practical skills in accounting software, e-commerce, business analytics, and information technology for better employability and entrepreneurship.
- To inculcate ethical values, professionalism, and social responsibility in students to meet the challenges of the global digital economy.
- To promote critical thinking, innovation, communication skills, and teamwork for overall personality and professional development.
- To encourage students to apply their knowledge in commerce and technology for sustainable development and community welfare

Bachelor of B Com (Computer Applications)

ProgrammeObjectives,OutcomesandMapping

ProgrammeEducationalObjectives(PEOs)

(Expected career and professional achievements of graduates within three to five years of completing the programme)

PEO1: Graduates will pursue successful careers in commerce, business, and information technology sectors by applying integrated knowledge of commerce and computer applications with ethical values and professional responsibility.

PEO2: Graduates will engage in higher education, professional development, and lifelong learning to adapt to emerging technologies, evolving business environments, and global economic challenges.

PEO3: Graduates will demonstrate leadership, innovation, and entrepreneurial abilities to create sustainable business solutions and contribute to economic growth and employment generation.

PEO4: Graduates will uphold integrity, inclusiveness, and social responsibility by contributing to equitable development, community welfare, and environmentally sustainable practices.

PEO5: Graduates will apply critical thinking, communication, and collaborative skills to make meaningful contributions to organizations and society while promoting dignity, empowerment, and societal well-being.

Programme Learning Outcomes (PLOs)

(Specificabilities, knowledge, and skillsthat graduatesareexpectedtodemonstrateupon Graduation)

PLO1: Apply principles of accounting, finance, business management, and computer applicationstoanalyseandsupportbusinessoperationsinthedigitalcommerceenvironment.

PLO2: Communicate business information, analytical findings, and technological solutions effectively through written reports, presentations, and digital platforms.

PLO3: Analyse financial, commercial, and technological data using appropriate analytical tools to interpret trends and support informed business decisions.

PLO4: Solve business and technological problems by applying systematic reasoning and appropriate accounting, management, and computing techniques.

PLO5: Conduct basic research and project work in commerce and computer applications by collecting, analysing, and interpreting data using appropriate research methods.

PLO6: Collaborate effectively in team-based academic and professional environments to accomplish organizational goals and project outcomes.

PLO7: Evaluate ethical, environmental, and social implications of business decisions and technological practices to promote responsible and sustainable development.

PLO8: Demonstrate leadership qualities and initiative in managing academic, professional, and community-oriented activities.

PLO9: Utilize digital tools, accounting software, and information technologies to manage business data and support e-commerce and digital business processes.

PLO10: Engage in self-directed learning and continuous professional development to adapt to emerging technologies, business practices, and global economic changes.

PLOs with Bloom's Levels, Assessment Methods, and Graduate Attribute Mapping

PLO No	Programme Learning Outcome	Bloom's Level	Assessment Methods	Mapped GAs
PLO1	Apply principles of accounting, finance, business management, and computer applications to analyse and support business operations in the digital commerce environment.	K3	CIA, ESE, Practical	GA1, GA10
PLO2	Communicate business information, analytical findings, and technological solutions effectively through written reports, presentations, and digital platforms.	K3	Seminar, Viva, CIA	GA2, GA10
PLO3	Analyse financial, commercial, and technological data using appropriate analytical tools to interpret trends and support informed business decisions.	K4	Case Study, CIA, ESE	GA3, GA5
PLO4	Solve business and technological problems by applying systematic reasoning and appropriate accounting, management, and computing techniques.	K4	Case Study, Practical, ESE	GA4, GA8
PLO5	Conduct basic research and project work in commerce and computer applications by collecting, analysing, and interpreting data using appropriate research methods.	K4	Project, Viva, Field Work	GA6, GA10
PLO6	Collaborate effectively in team-based academic and professional environments to accomplish organizational goals and project outcomes.	K3	Project, Seminar, Internship	GA7, GA12
PLO7	Evaluate ethical, environmental, and social implications of business decisions and technological practices to promote responsible and sustainable development.	K5	Case Study, Seminar, CIA	GA13, GA9
PLO8	Demonstrate leadership qualities and initiative in managing academic, professional, and community-oriented activities.	K3	Project, Internship, Viva	GA14, GA7
PLO9	Utilized digital tools, accounting software, and information technologies to manage business data and support e-commerce and digital business processes.	K3	Practical, Project, CIA	GA10, GA1
PLO10	Engage in self-directed learning and continuous professional development to adapt to emerging technologies, business practices, and global economic changes.	K5	Seminar, Internship, Viva	GA11, GA15

ProgrammeSpecificOutcomes(PSOs)

(Expectedknowledge,skills,andcompetenciesthatgraduateswillacquirebytheendofthe programme)

PSO1: Apply accounting principles and financial management techniques to prepare, analyse, and interpret financial statements for effective business decision-making.

PSO2: Develop and manage business databases and software applications using programming and database technologies to support digital business operations.

PSO3: Design, implement web-based, and software solutions to support e-commerce, digital communication, and organizational information systems.

PSO4: Apply legal, taxation, and regulatory frameworks relevant to business organizations to ensure compliance and effective financial governance.

PSO5: Utilize cost, management accounting, and research techniques to evaluate business performance and support strategic managerial decisions.

PSOAlignmentwithCoreCoursesandSkillCompetencies

PSO No	Programme Specific Outcome	Supporting Core Courses	Skill Competency
PSO1	Prepare and interpret financial statements and reports using accounting and financial management techniques for organizational planning and control.	Principles of Accounting, Financial Accounting, Corporate Accounting, Financial Management	Progression from basic accounting concepts to advanced financial reporting and financial decision-making.
PSO2	Develop database-driven and object-oriented business applications using programming languages and database management systems.	Fundamentals of Computer Application and Basics of C, RDBMS (Theory & Practical), Python (Theory & Practical), Object Oriented Programming and Design	Builds programming competency from basic coding to advanced application development.
PSO3	Design and implement user interfaces and web-based solutions to support digital communication and online business services.	Graphic User Interface Design and Development, Web Design Applications (Theory & Practical), Software Engineering & OOAD	Emphasizes software design principles and development of web and interface-based applications.
PSO4	Apply business laws, banking regulations, and taxation procedures to ensure statutory compliance in business organizations.	Business Law, Company Law, Banking Theory Law and Practice, Direct Taxation	Focuses on regulatory frameworks and compliance requirements in business operations.
PSO5	Analyse organizational performance and support managerial decisions using cost accounting, management accounting, and economic principles.	Cost Accounting, Management Accounting, Business Economics	Develops analytical skills for cost control, performance evaluation, and decision-making.
PSO6	Conduct business research and apply governance and auditing practices to improve transparency and accountability in organizations.	Research Methodology, Auditing, Corporate Governance	Focuses on research-based analysis and governance practices in modern business environments.

SCHEME OF EXAMINATION

Sem	Part	Course Code	CourseTitle	Course Type	Hours/Week	Credits	Examination			
							Duration inHours	MaximumMarks		
								CA	ESE	TOT AL
I	I	TAM2601A	TamilPaperI	AEC	4	3	3	25	75	100
		HIN2601A	HindiPaperI							
		FRE2601A	FrenchPaperI							
	II	ENG2601A	EnglishPaperI	AEC	4	3	3	25	75	100
	III	BP26C01/ CM26C01	CoreI:Principlesof Accounting	DSC	5	3	3	25	75	100
		BP26C02	CoreII:Fundamentals of Computer ApplicationandBasics of C	DSC	6	4	3	25	75	100
		BP26CP1	Core Practical I: Fundamentalsand ProgrammingLab Practical	DSC	4	2	3	15 ^{\$\$}	35 ^{\$\$}	50
		TH26A07	GenericElectiveI: Mathematicsfor Commerce	MDC	5	4	3	25	75	100
	IV	NME26B1	BasicTamilI	AEC	2	2	-	100*		100
		NME26A1	Advanced TamilI							
		NME26ES	Introductionto Entrepreneurship	VAC						
I -II	VI	NM26GAW	GeneralAwareness	VAC	SS	-	-	-	-	-
I -II		COM26SER	CommunityServices 30 Hours	VAC	-	-	-	-	-	-
I -V		26BONL1 26BONL2 26BONL3	Online Course I Online Course II OnlineCourseIII	ACC	-	-	-	-	-	-
SemesterI Total					30	21				650
II	I	TAM2602A	TamilPaperII	AEC	4	3	3	25	75	100
		HIN2602A	HindiPaperII							
		FRE2602A	FrenchPaper II							
	II	ENG2602A	EnglishPaperII	AEC	4	3	3	25	75	100
	III	BP26C03	CoreIII:Relational DatabaseManagement System	DSC	6	4	3	25	75	100
		BP26C04/ CM26C04	CoreIV:Financial Accounting	DSC	5	3	3	25	75	100
		BP26CP2	CorePracticalIII: DatabaseProgramming Practical	DSC	4	2	3	15 ^{\$\$}	35 ^{\$\$}	50

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		TH26A16	GenericElectiveII: Statisticsfor Commerce	MDC	5	4	3	25	75	100
	IV	NME26B2	BasicTamilIII	AEC	2 [€]	Gr.		100*	-	100 [€]
		NME26A2	Advanced TamilIII							
		NM26UHR	UniversalHuman ValuesandHuman Rights	VAC	2	2	-	100*	-	100
I -II	VI	NM26GAW	GeneralAwareness	VAC	SS	Gr.	-	100*		100 [€]
I -II		COM26SER	CommunityServices 30 Hours	VAC	-	St.	-	-	-	-
I -V		26BONL1 26BONL2 26BONL3	Online Course I Online Course II OnlineCourseIII	ACC	-	-	-	-	-	-
SemesterII Total					30	21				650
III	I	TAM2603A	TamilPaperIII	AEC	4	3	3	25	75	100
		HIN2603A	HindiPaperIII							
		FRE2603A	FrenchPaperIII							
	II	ENG2603A	EnglishPaperIII	AEC	4	3	3	25	75	100
	III	BP26C05	CoreV:Fundamentals ofCorporate Accounting	DSC	5	4	3	25	75	100
		BP26C06	CoreVI:Object OrientedProgramming and Design (OR)	DSC	5	4	3	25	75	100
		BP26CP3	CorePracticalIII: Object Oriented Programmingand DesignPractical	DSC	4	2	3	15 ^{\$\$}	35 ^{\$\$}	50
		BP26A01	GenericElectiveIII: BusinessManagement and Ethics (OR)	MDC	5	4	3	25	75	100
		BP26A02	GenericElectiveIII: Human Resource Management (OR)							
		EC26A01	GenericElectiveIII: Company Law							
	IV	NM26DRM	Disaster Risk Reductionand Management	SEC	3	3	-	100*	-	100
		NM26HAW	HealthandWellness [€]	VAC		1	-	100*	-	100
I -V	VI	26BONL1 26BONL2 26BONL3	Online Course I Online Course II OnlineCourseIII	ACC	-	-	-	-	-	-
SemesterIII Total					30	24				750
IV	I	TAM2604A	TamilPaperIV	AEC	4	3	3	25	75	100
		HIN2604A	HindiPaperIV							

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		FRE2604A	FrenchPaperIV							
	II	ENG2604A	EnglishPaperIV	AEC	4	3	3	25	75	100
	III	BP26C07	CoreVII:Graphical UserInterfaceDesign and Development	DSC	4	3	3	25	75	100
		BP26C08/ CM26C10	CoreVIII:Business Finance	DSC	5	4	3	25	75	100
		BP26CP4	Core Practical IV: Graphical User Interface Design and DevelopmentPractical	DSC	3	2	3	15 ^{\$\$}	35 ^{\$\$}	50
		BP26A03	GenericElective IV: BusinessLaw	MDC	5	4	3	25	75	100
		BP26A04	GenericElectiveIV: BankingTheoryLaw and Practice							
		EC26A03	GenericElective IV: BusinessEconomics							
	IV	BP26SECE	Networking Technologiesand InformationSecurity	SEC	3	3	-	100*	-	100
		NM26EII	Entrepreneurshipand Innovation(IgniteX)	VAC	2	2	-	100*	-	100
		NM26EVS	EnvironmentalStudies	VAC	SS	Gr.	-	100*	-	100 [€]
	V	26COACT	Co-Curricular Activities	VAC	-	1	-	100*	-	100
	I -V	26BONL1 26BONL2 26BONL3	Online Course I Online Course II OnlineCourseIII	ACC	-	-	-	-	-	-
SemesterIV Total					30	25				850
V	III	BP26C09	CoreIX:Programming with Python	DSC	5	5	3	25	75	100
		BP26C10/ CM26C11	CoreX:Management Accounting	DSC	5	4	3	25	75	100
		BP26C11/ CM26C12	CoreXI:Direct Taxation	DSC	6	4	3	25	75	100
		BP26CP5	Core Practical V: Programmingwith PythonPractical	DSC	4	2	3	15 ^{\$\$}	35 ^{\$\$}	50
		BP26E01	ElectiveI:Research Methodology(OR)	DSE	5	5	3	25	75	100
		BP26E02	ElectiveI:Software Engineering and OOAD(OR)							
		CM26E03	ElectiveI:Performance Management							
		BP26AC1	Advance Learner CourseI:Business Communication (OR)	ACC	SS	5^	3	25	75	100^
		BP26AC2	AdvanceLearner CourseI:Introduction to Data Science							

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	IV	BP26SEP1	BusinessIntelligence withMachineLearning	SEC	3	3	-	100*	-	100
		NM26CS1	CyberSecurityI	VAC	2 [€]	Gr.	-	100*	-	100 [€]
		BP26INST	Field work/ InstitutionalTraining (21Days)	VAC	-	2	-	100*	-	100
	VI	BP26COM	Comprehensive Examination	DSC	-	Gr.	-	100*	-	100 [€]
I - V	VI	26BONL1 26BONL2 26BONL3	Online Course I Online Course II OnlineCourseIII	ACC	-	Cr.^ /St.	-	-	-	-
SemesterV Total					30	25				650
VI	III	BP26C12	CoreXII:WebDesign Applications	DSC	6	5	3	25	75	100
		BP26C13/ CM26C14	CoreXIII:Cost Accounting	DSC	6	4	3	25	75	100
		BP26CP6	CorePracticalVI:Web DesignApplications Practical	DSC	4	2	-	15 ^{\$\$}	35 ^{\$\$}	50
		BP26E03	ElectiveII:Auditing and Corporate Governance(OR)	DSE	5	5	3	25	75	100
		EC26E03	ElectiveII:Essentials ofDigitalFinance (OR)							
		BP26E04	ElectiveII:Indirect Taxation							
		BP26PROJ	ProjectandVivaVoce	DSC	6	5	-	25	75	100
	IV	BP26SEP2	Programmingwith PHP Practical	SEC	3	3	-	100*	-	100
	III	BP26AC3	Advance Learner CourseII-Business Environment(OR)	ACC	SS	5^	3	25	75	100^
		BP26AC4	Advance Learner CourseII:Financial Services							
SemesterVI Total					30	24				550
I- VI	Total					140+ Addit ional Credi ts				4100 + Mar ksfor Addit ional Credi t Cours es

HoursofInstructionsisinclusiveoflectures,seminars,presentations,case-studies,etc

ListofGenericElectiveCoursesofferedtootherProgrammes

(canchooseanyoneof thecoursesasGenericElective)

Semester	Course Type	Course Code	Course Title	Programmes
III	MDC– Generic ElectiveIII	BP26A01	BusinessManagement and Ethics	BCom (e-Commerce)
IV	MDC– Generic ElectiveIV	BP26A03	BusinessLaw	BCom (e-Commerce)

SymbolsandNotations

Symbols	Notations
*	CourseassessedthroughInternalAssessment(CIA)only
Gr.	GradeawardedbasedonCBCSgradingsystem
St.	CourseStatus(Completed/Not Completed)
^	AdvancedLearnerCourse,OnlineCourses–AdditionalCredit Courses
@	Courseassessedthrough EndSemesterExamination (ESE)only
#	OpenBook Examination
\$	EvaluationPatternconvertedfrom25:75:100to20:55:75(CIA:ESE:Total) structure
\$\$	EvaluationPatternconvertedfrom25:75:100to15:35:50(CIA:ESE:Total) structure
€	Marksnotconsideredfortotal;gradewillbe awarded

Abbreviation	Course Type
DSC	DisciplineSpecificCoreCourses
DSE	DisciplineSpecificElectiveCourses
MDC	MultidisciplinaryCourses
AEC	AbilityEnhancementCourse
SEC	SkillEnhancementCourse
VAC	ValueAddedCourses
ACC	AdditionalCreditsCourses

AssessmentandEvaluationFramework**ContinuousInternalAssessment(CIA)– 25%**

Component	ActivitiesIncluded
InternalTests	Periodicwrittentests
Assignments/CaseStudies	• Writtenassignments • Caseanalysisreports • Articlereviews • Literaturereviewtasks • Datainterpretationexercises • Policyanalysis(Arts&Humanities) • Businesscasestudies(Commerce&Management) • Lab-basedanalyticalreports(Science)
Seminars/ Presentations	• PowerPointpresentations • Posterpresentations • Paneldiscussions • Groupseminars • Vivavoce • Digitalpresentationsusingmultimediatools • Peerevaluationrubrics
ICT-basedTasks	• Spreadsheetanalysis • Accountingsoftware/statisticalsoftware • Onlinequizzes • Simulationtools • E-contentcreation • Codingplatforms(forrelevantdisciplines)
Projects/FieldReports	• Fieldsurveys • Industryvisits • Internshipreports • Mini-projects • Laboratoryexperiments • Community-basedresearch • Datacollection&statisticalanalysis • Reflectivejournals

EndSemesterExamination(ESE)–75%

Component	Description
WrittenExamination	3-hourwrittenexaminationcoveringall CLOs
CognitiveLevels	QuestionsalignedwithmultipleBloom’sTaxonomy(K-levels)
ProfessionalConduct	Ethicalandprofessionalconductduringexamination
AcademicCompliance	Timelysubmissionandparticipationasperregulations

AssessmentComponentsAlignedwithBloomsLevels

EXAMINATIONSYSTEM

Semestersystemwillbefollowed.Asemesterconsistsofaminimumof90workingdaysexcludingthe days of conduct of ESE. There will be Continuous Internal Assessment (CA) to evaluate the performance of students in each course and the End Semester Examination will be held at the end of every semester. Marks for ESE and CA with reference to the maximum marks for the courses will be as follows:

Max. Marks	CA	ESE
100	25	75
75	20	55
50	15	35

A. Bloom's levels are followed in question papers and aligned with CLOs and CA components.

Remember	-	K1
Understand	-	K2
Apply	-	K3
Analyze	-	K4
Evaluate	-	K5
Create	-	K6

B. Continuous Internal Assessment CA

The weightage assigned to various components of the CA is as follows Undergraduate

Programmes

a. Theory

AEC(Language,English),DSC(Core,Elective) &MDC(GE-Allied)

CA Components	Marks	K level
CIATest	5 Marks (Conducted for 45 marks after 50 days – 3 units)	K1 to K6 as per QP Pattern
Model Exam	7 Marks (Conducted for 75 marks after 85 days - Each Unit 15 Marks)	
Seminar	4 Marks	K6
Assignment	4 Marks	K5

ICT(Quiz)	2 Marks	K2
Attendance	3 Marks (Attendance75%-80%- 1 Mark, 81%-90%-2 Marks,91%-100%-3Marks)	
Total	25 Marks	

For Science allied courses with theory as 75 marks, the split-up is 20 marks as internal and 55 as external. Internal conducted for 25 and converted to 20 marks and external conducted for 75 and converted to 55 marks.

b. Practical

CAComponents	Marks	K level
LabPerformance	7 Marks	K4
InternalVivaVoce	5 Marks	K4
ModelExam	10 Marks	K5
Attendance	3 Marks	
Total	25 Marks	

For practical courses with 50 marks as ESE, the split-up is 15 marks as internal and 35 as external. Internal conducted for 25 and converted to 15 marks and external conducted for 75 and converted to 35 marks.

c. Skill Enhancement Courses

Theory courses

CAComponents	Marks	K level
TestI	30 Marks (Conducted for 45 marks and converted to 30 Marks – 3 Units)	K2 to K6 as per QP Pattern
TestII	50 Marks (Conducted for 75 marks after 85 days-Each Unit 15 Marks)	
Assignment	10 Marks	K5
Seminar	10 Marks	K6
Total	100 Marks	

PracticalCourses

CAComponents	Marks	K level
Practicalexam	80 Marks (PracticalExecution:65Marks,Record:15 Marks)	K5
LabPerformance	10 Marks	K4
InternalVivaVoce	10 Marks	K4
Total	100 Marks	

Theoryand Practical

CAComponents	Marks	K level
TestI(Theory)	30 Marks (Conductedfor45Marksandconvertedto 30 Marks)	K2– K6
TestII(Practical)	50 Marks (PracticalExecution:40Marks,Record: 10 Marks)	K5
LabPerformance	10 Marks	K4
InternalVivaVoce	10 Marks	K4
Total	100 Marks	

Theoryand Project

CAComponents	Marks	K level
TestI(Theory)	30 Marks (Conductedfor45Marksandconvertedto 30 Marks)	K2– K6
ProjectExamination	30 Marks	K5
InternalVivaVoce	40 Marks	K4
Total	100 Marks	

d. Project:Individual/Group Project

Components	Marks	K level
ContinuousInternalAssessment (CA)	25 Marks	K3,K4,K6
EndSemester Examination	75 Marks	K5,K6
Total	100 Marks	

ContinuousInternalAssessment(CA)

CAComponents	Marks	K level
I Review-ProjectProposal Presentation	5 Marks	K3
IIReview-PeriodicReview-ProgressEvaluation	10 Marks	K4
IIIReview-Project ReportDraftSubmission	10 Marks	K6
Total	25 Marks	

Endsemesterexamination

Components	Marks	K level
EvaluationoftheProjectReport	25 Marks	K6
VivaVoce	50 Marks	K5
Total	75 Marks	

e. Introductionto Entrepreneurship/ Women Studies / UniversalHuman Values and Human Rights / Environmental Studies / Cyber Security I

CAComponents	Marks	K level
ICT(Quiz)	50 Marks	K2
Assignment	25 Marks	K5
Project/ Casestudy/ Poster	25 Marks	K6
Total	100 Marks	

f. EntrepreneurshipandInnovation (IgniteX)

CAComponents	Marks	K level
ICT(Quiz)	50 Marks (3Quizzeseach quiz25 marks, 75marksconvertedto50marks)	K2
ICT(PitchDeckPresentation)	20Marks	K6
Assignment	30marks(30VentureActivities)	K5
Total	100 Marks	

g. AdvancedTamil&BasicTamil

Components	Marks	K level
CIA	25 Marks (conductedfor45marksafter50 days)	K1toK6as per QP Pattern
Model	50 marks (conductedfor75marksafter85 days)	
ICT(Quiz)	15Marks	K2
Assignment	10 Marks	K5
Total	100 Marks	

h. GeneralAwareness/ComprehensiveExamination/Co-CurricularActivities/Community Services

<i>Course Title</i>	Marks	Klevel
GeneralAwareness	100	K3
ComprehensiveExamination	100	K3
Co-CurricularActivities	100	K6
CommunityServices	St.	K6

i. FieldWork/Institutional Training:

CAComponents	Marks	K level
Work diary	15 Marks	K3
Report	50 Marks	K6
VivaVoce	25 Marks	K5
Attendance	10 Marks	
Total	100 Marks	

j. AdvancelearnerCourse:

CAComponents	Marks	K level
Test1	10 Marks (conductedfor45marksafter50days –3units)	K1toK6as per QP Pattern
ModelExam	15 Marks (Conductedfor75marksafter85days(EachUnit15 Marks))	
Total	25 Marks	

C. ScheduleforCATests

One test for Continuous Assessment (3 Units) will be conducted on pre-determined date i.e., commencing on the 50th day from the date of reopening. The model exam (5 units) will be conducted after completing 85th working day.

D. QuestionPaperPatternandDistributionofMarksforCA–UG

UG:Language,English,Core,Elective,Allied, ALC,BasicTamilandAdvancedTamil - (First 3 Units)

Description	Marks	NumberofquestionsinK level					
		K1	K2	K3	K4	K5	K6
<i>Questionsfromeachunitcomprisingof</i>							
Onequestion with a weightageof 2Marks	3 X2 =6	1	2				
Onequestionwithaweightageof5Marks (InternalChoiceatthesameCLOlevel)	3 X5 =15			1	1	1	
Onequestionwithaweightageof8Marks (InternalChoiceatthesameCLOlevel)	3 X8 =24			1	1		1
Total	45 Marks						

Skill Enhancement Courses-UG

Description	Marks	Number of questions in K level					
		K1	K2	K3	K4	K5	K6
Questions from each unit comprising of							
One question with a weightage of 5 Marks (Internal Choice at the same CLO level)	3 x 5 = 15		1	1	1	1	1
One question with a weightage of 10 Marks (Internal Choice at the same CLO level)	3 x 10 = 30			2	1	1	1
Total	45 Marks						

E. Model/End Semester Examination–Question Paper Pattern and Distribution of Marks**UG: Language, English, Core, Elective, Allied, ALC, Basic Tamil & Advanced Tamil**

Description	Marks	Number of questions in K level					
		K1	K2	K3	K4	K5	K6
Questions from each unit comprising of							
One question with a weightage of 2 Marks	5 x 2 = 10	2	3				
One question with a weightage of 5 Marks (Internal Choice at the same CLO level)	5 x 5 = 25			2	2	1	
One question with a weightage of 8 Marks (Internal Choice at the same CLO level)	5 x 8 = 40			2	1	1	1
Total	75 Marks						

ESE Practical Pattern (UG)

The End Semester Examination will be conducted for a maximum of 75 marks with a maximum 15 marks for the record and other submissions if any.

Practical Components	Marks	K level
Practical Execution	60 Marks	K5
Record	15 Marks	K2
Total	75 Marks	

Submission of Record notebooks for Practical Examinations

Submission of bona fide record notebooks is mandatory to appear for the practical examination.

If a candidate is unable to submit the record notebook on valid grounds, she may be permitted to appear for the practical examinations, provided the head of the department certifies that the

candidatehasperformedtheexperimentsprescribedforthecourseandshewillbeawarded zero (0) marks for record note book.

RubricsforAssessments

RubricsforAssessment

Standard4-LevelPerformanceScale

Level	Descriptor	ScoreRange (Illustrative)
Level4	Excellent	80–100%ofcomponentmarks
Level3	Good	60–79%
Level2	Satisfactory	40–59%
Level1	Needs Improvement	Below40%

1. Theory

EndSemesterExamination(ESE)

Section	K-Level	Criteria	Level 4 (Excellent)	Level3 (Good)	Level 2 (Satisfactory)	Level1(Needs Improvement)
SECA (Theory / Knowledge)	K1– K2	Knowledge recall &understanding	Thorough understanding across all required cognitive levels	Good understanding, minor gaps	Basic understanding, limited depth	Inadequateor incorrect understanding
SECB (Application& Analysis)	K3– K5	Problem- solving, applicationof concepts, analytical reasoning	Accurately applies concepts, stronglogical reasoning, handles problems independently	Mostlycorrect application, minor errors, reasonable reasoning	Partial application, procedural errors,limited reasoning	Unable toapplyconcept s, incorrect, poor reasoning
SECC (Comprehensive /Higher-Order Tasks)	K3– K6	Analytical reasoning, creation, problem- solving, innovation	Clearlogical reasoning, structured solutions, innovativeor optimized solutions	Reasonable logic with minor gaps, mostlycorrect solutions	Limited reasoning, basicattempt at solution	Poor or no reasoning, incorrector missing solutions

ContinuousInternalAssessment(CIA)

Section	K-Level	Criteria	Level 4 (Excellent)	Level3 (Good)	Level 2 (Satisfactory)	Level 1(Needs Improvement)
SECA (Theory / Knowledge)	K1–K2	Knowledge recall & understanding	Thorough understanding across all required cognitive levels	Good understanding, minor gaps	Basic understanding, limited depth	Inadequate or incorrect understanding
SECB (Application & Analysis)	K3–K5	Problem-solving, application of concepts, analytical reasoning	Accurately applies concepts, strong logical reasoning, handles problems independently	Mostly correct application, minor errors, reasonable reasoning	Partial application, procedural errors, limited reasoning	Unable to apply concepts, incorrect, poor reasoning
SECC (Comprehensive / Higher-Order Tasks)	K3, K4, K6	Analytical reasoning, creation, problem-solving, innovation	Clear logical reasoning, structured solutions, innovative or optimized solutions	Reasonable logic with minor gaps, mostly correct solutions	Limited reasoning, basic attempt at solution	Poor or no reasoning, incorrect or missing solutions

2. InternalComponents–OtherActivities

Component	K-Level	Criteria	Level 4	Level 3	Level 2	Level 1
Assignment	K5	Application & Problem Solving	Strong solutions, accurate	Mostly correct	Partial	Incorrect/missing
Seminar / Presentation	K6	Creation, Communication & Analysis	Insightful, professional, confident	Good, minor gaps	Basic	Poor / incomplete
ICT Quiz	K2	Knowledge & Application	Accurate & confident	Mostly correct	Basic	Incorrect
Attendance	—	Participation & Punctuality	Full attendance, punctual	Mostly present	Occasional	Poor / frequently absent

3. Practical

ContinuousInternalAssessment(CIA)

Component	Bloom's Level	Level4(Excellent)	Level3(Good)	Level 2 (Satisfactory)	Level1(Needs Improvement)
Model Practical (Converted to 10)	K5	Independent execution, accurate results, strong analysis, handles unexpected issues confidently	Minor errors, mostly accurate, guided problem-solving	Performs with guidance, partial understanding, limited analysis	Unable to perform, inaccurate results, no reasoning
Internal Viva	K4	Strong conceptual knowledge, clear reasoning, confident troubleshooting	Good understanding, minor gaps, can handle problems with guidance	Basic understanding, limited problem-solving	Weak knowledge, unable to respond or reason
Lab Performance	K4	Active participation, consistent improvement, skillfully applies concepts	Mostly regular participation, moderate improvement	Irregular, minimal improvement	Rarely participates, no skill growth
Attendance	—	Full attendance, punctual	Mostly present	Occasionally absent	Frequently absent

EndSemesterPracticalExamination(ESE)

Component	Bloom's Level	Level 4 (Excellent)	Level3(Good)	Level 2 (Satisfactory)	Level1(Needs Improvement)
Practical Execution	K5	Accurate execution, proper procedure, precise results, handles unexpected issues confidently	Minor errors, mostly correct, can handle problems with help	Multiple errors, partial results, limited troubleshooting	Incorrect procedure, unable to execute, fails completely
Record Verification	K2	Complete experiments, accurate results, correct interpretation, neat & structured	Minor omissions, minor errors, mostly clear	Incomplete, errors present, basic clarity	Very incomplete, incorrect, untidy
External Viva	K4	Strong theoretical knowledge, clear understanding & application, confident reasoning	Good understanding, minor gaps, partial application	Basic knowledge, limited link to experiment	Weak knowledge, unable to explain or apply concepts

4. Projects

ContinuousInternalAssessment(CIA)

Component	Bloom's Level	Level4(Excellent)	Level3(Good)	Level 2 (Satisfactory)	Level1(Needs Improvement)
Project Proposal Presentation	K3	Clear, focused problemdefinition; well-defined objectives;feasible plan; confident presentation	Minor gaps in clarity or planning;mostly clear	Broad or partiallydefined problem; basic objectives;basic presentation	Vague/unclear problem; objectives missing; poor presentation
Periodic Review / Progress Evaluation	K4	Consistent, timely progress; correct application; identifies&resolves issues independently; systematic documentation; proactive	Minor delays, minorguidance needed,mostly updated documentation; moderately proactive	Irregular progress,partial application, needs support, basic documentation	Very limited progress, incorrect application, passive, poor documentation
Project Report Draft Submission	K6	Well-structured report; accurate understanding; adequate data; logical analysis; properreferencing& presentation	Minorstructuralor conceptual gaps; minor data issues; reasonable analysis; minor formatting issues	Basic structure; partial understanding; limited data; basic analysis; basicformatting	Poorlyorganized; incorrect understanding; insufficient data; no analysis; poor presentation

EndSemesterExamination(ESE)

Component	Bloom's Level	Level4(Excellent)	Level3(Good)	Level 2 (Satisfactory)	Level1(Needs Improvement)
Final Project Report Evaluation (External)	K6	Topic relevant &meaningful;accurate application of concepts; adequate & relevant data; logical analysis; effective problem-solving;professional formatting	Mostly relevant; minor conceptual errors;minorgaps in data; mostly logical;reasonable solutions; minor formatting issues	Moderately relevant;basic application; limited data; basicanalysis; basicproblem-solving; basic formatting	Poor relevance; incorrect application; insufficientdata; weak analysis; nosolution;poor formatting
External VivaVoce	K5	Thorough understanding; strong linkage to project; logical reasoning;confident & accurate responses; professional communication	Minor gaps in understanding or reasoning;mostly correct answers; acceptable communication	Basic understanding; limited linkage; basicreasoning; limitedanswers; basic communication	Weak understanding; no linkage; no reasoning; unable to respond; poor communication

SYLLABUS
FIRST SEMESTER

Course Code	Course Title	Hours			Credits
		Total	Lecture	Examination	
BP26C01/ CM26C01	CoreI:Principlesof Accounting	75	70	5	3

Preamble

Introduces a strong foundation in accounting by covering principles, preparation of accounts, and application of accounting standards in various business situations.

Prerequisite

Basic knowledge of business transactions and arithmetic is essential.

Course Learning Outcomes (CLOs)

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

CLO No	Course Learning Outcome	Bloom's Level
CLO1	Define fundamental accounting concepts, conventions, and basic terminology used in financial accounting.	K1
CLO2	Explain the accounting cycle, accounting standards, and the preparation of basic financial statements.	K2
CLO3	Apply accounting procedures to record transactions, prepare journals, ledgers, trial balance, bank reconciliation statements, and depreciation calculations.	K3
CLO4	Analyse accounting records to identify and rectify errors, interpret incomplete records, and examine financial information.	K4
CLO5	Evaluate accounting treatments related to royalties, insurance claims, provisions, and contingent liabilities using appropriate accounting principles and standards.	K5
CLO6	Prepare complete financial statements and related accounting reports from different accounting situations using appropriate accounting methods.	K6
K1-Remember;K2-Understand;K3-Apply;K4-Analyze;K5-Evaluate;K6- Create		

Unit-wiseCLO Mapping

Unit	Coverage	MappedCLOs
UnitI	BasicAccountingConcepts,Journal,Ledger,Trial Balance,AccountingStandards,FinalAccounts	CLO1,CLO2,CLO3, CLO4,CLO5,CLO6
UnitII	Errors, Rectification, Suspense Account, Bank Reconciliation,Billsof Exchange	CLO1,CLO2,CLO3, CLO4,CLO5,CLO6
UnitIII	IncompleteRecords,StatementofAffairs, Conversion Method, Joint Venture	CLO1,CLO2,CLO3, CLO4,CLO5,CLO6
UnitIV	RoyaltyAccounts,InsuranceClaims,Provisionsand Contingencies	CLO1,CLO2,CLO3, CLO4,CLO5,CLO6
Unit V	DepreciationMethodsandAccountingTreatment	CLO1,CLO2,CLO3, CLO4,CLO5,CLO6

AlignmentofCLO withPLO

3=High,2 =Medium, 1=Low

CLO\ PLOs	PLO1	PLO2	PLO3	PLO4	PLO5	PLO6	PLO7	PLO8	PLO9	PLO10
CLO1	3	2	2	2	1	1	1	1	2	2
CLO2	3	2	3	3	1	1	1	1	2	2
CLO3	3	2	3	3	2	1	1	1	2	2
CLO4	3	2	3	3	2	1	2	1	2	2
CLO5	3	2	3	3	1	1	1	1	2	2

PRINCIPLESOFACCOUNTING(BP26C01/CM26C01)**(70Hrs)****UnitI****(14Hrs)**

Basic Accounting: Concepts and Conventions -Journal, Ledger Accounts– Subsidiary Books — Trial Balance – Disclosure of Company Accounting Policies (AS 1) - Revenue Recognition (AS 9)– Final Accounts of Sole Trading Concern- Capital and Revenue Expenditure and Receipts – Preparation of Trading, Profit and Loss Account and Balance Sheet with Adjustments.

UnitII (14Hrs)

Rectification of Errors: Classification of Errors - Rectification of Errors – Preparation of Suspense Account. Bank Reconciliation Statement - Need and Preparation. **Average Due Date:** Meaning – Determination of due Date-Basis for Calculation of Interest- Interest on Drawings of partners.

Bills of Exchange: Definition – Specimens – Discounting of Bills – Endorsement of Bill – Collection – Noting – Renewal – Retirement of Bill under rebate (trade bills only).

UnitIII (14Hrs)

Single Entry System and Double Entry System: Meaning and Features - Limitations - DifferencebetweenSingleEntrySystemandDoubleEntrySystem-MethodsofCalculation of Profit - Statement of Affairs Method – Preparation of final statements by Conversion method. **Joint Venture:** Meaning - Features – Accounting for Joint Venture (AS-27).

UnitIV (14Hrs)

Royalty: Meaning – Minimum Rent – Short Working – Recoupment of Short Working – Lessor and Lessee – Sublease – Accounting Treatment.Provisions - Contingent Liabilities, and Contingent Assets (AS 29). **Insurance Claims:** Calculation of Claim Amount-Average clause (Loss of Stock only).

UnitV (14Hrs)

Depreciation: Meaning – Objectives – Accounting Treatments - Types - Straight Line Method – Diminishing Balance method – Conversion method – Annuity Method – Revaluation Method (AS 6).

*** CourseAlignmentwithSDGs:16**

*** 80%Problems20% Theory**

Text Books

S. No	Authors	Title	Publishers	Yearand Edition
1.	JainS.P &NarangK.L	Principlesof Accountancy	Kalyani Publishers	2024, 23 rd Edn.
2.	ReddyTS &A Murthy	FinancialAccounting	Margham Publications	Reprint 2021, 7 th Edn.

ReferenceBooks

S. No	Authors	Title	Publishers	Yearand Edition
1.	R LGupta&Radhasamy	AdvancedAccountancy (VolI)	SultanChand& Sons.	2021, 15 th Edn.
2.	MC Shukla, T.S. Grewal &S.C. Gupta	AdvancedAccountancy	S.Chand&sons	2021, 19 th Edn.

RelatedOnlineReferences

- <https://www.coursera.org/learn/wharton-accounting>
- <https://web.ung.edu/media/university-press/Principles-of-Financial-Accounting.pdf?t=1542408454385>

SkillComponents

- Reviewandassessacompany'saccountingpoliciesandidentifycompliancewith AS 1 (Disclosure of Accounting Policies) and AS 9 (Revenue Recognition).
- Identifyandclassifyaccountingerrorsandimplementappropriatemethodsfortheir rectification.
- ApplytheSingle-EntrySystemtobusinesssituationsandevaluatethelimitationsof incomplete records.
- Analyzeinsuranceclaimswithspecialemphasisoncalculatingtheclaimamount under the average clause, and apply it to loss of stock situations.
- Applyvariousmethodsofdepreciationtodifferentbusinessscenariosandunderstand the financial impact of each method

Pedagogy

Thecoursewillbedeliveredusingacombinationoftraditionalandlearner-canteredteaching methods, including:

- Lecture-Chalk andTalk
- PowerPointpresentations
- E-contentanddigitallearningresources
- Numericalproblem-solvingexercises
- Groupdiscussions
- Assignments
- Quizzes

- Peerlearning activities
- Student seminars

CourseDesigners&Teaching–Learning Strategies

CourseCode & Title	CM26C01,CoreI:PrinciplesofAccounting
CourseDesigners	Dr.L.Nithya,Dr.T.Ambika
Teaching–Learning Strategies	ParticipatoryLearning: 25 %
	ExperientialLearning:16%
	Problem-basedLearning:59%

Course Code	Course Title	Hours			Credits
		Total	Lecture	Examination	
BP26C02	Core II: Fundamentals of Computer Application and Basics of C	90	85	5	4

Preamble

- Introduces fundamental concepts of computer systems, components, and their role in modern digital environments.
- Develops foundational programming skills in C including variables, operators, expressions, and input–output operations.
- Builds a foundation for advanced learning in computer applications and technology-enabled business processes.

Prerequisite

- Basic computer awareness and elementary logical reasoning skills.

Course Learning Outcomes (CLOs)

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

CLO No	Course Learning Outcome	Bloom's Level
CLO1	Identify fundamental computer concepts, components, memory types, and basic terminology related to C programming.	K1
CLO2	Explain computer architecture, input–output devices, memory organization, and the concepts of Industry 4.0 and C programming structure.	K2
CLO3	Apply C programming constructs such as variables, operators, expressions, and input–output statements to develop simple programs.	K3
CLO4	Analyze program logic using conditional statements, loops, arrays, and strings to solve computational problems.	K4
CLO5	Evaluate alternative programming approaches using functions, recursion, and structured programming techniques for program efficiency and correctness.	K5
CLO6	Develop structured C programs using functions, arrays, structures, and searching techniques to address practical computational tasks.	K6
K1-Remember; K2 -Understand; K3-Apply; K4-Analyze; K5-Evaluate; K6-Create		

Unit-wiseCLO Mapping

Unit	Coverage	MappedCLOs
UnitI	Introduction to computers, characteristics,types,hardware andsoftware	CLO1,CLO2,CLO3,CLO4,CLO5,CLO6
UnitII	Memory, CPU components, input/outputdevices, Industry4.0 concepts	CLO1,CLO2,CLO3,CLO4,CLO5,CLO6
UnitIII	Basics of C programming, variables,operators,expressions, input/output	CLO1,CLO2,CLO3,CLO4,CLO5,CLO6
UnitIV	Decisionmaking,loops,arrays, and strings	CLO1,CLO2,CLO3,CLO4,CLO5,CLO6
Unit V	Functions,recursion,structures, andsearching techniques	CLO1,CLO2,CLO3,CLO4,CLO5,CLO6

AlignmentofCLO withPLO

3=High,2 =Medium, 1=Low

CLO \ PLO	PLO 1	PLO 2	PLO 3	PLO 4	PLO 5	PLO 6	PLO 7	PLO 8	PLO 9	PLO 10
CLO1	2	1	1	1	1	1	1	1	3	1
CLO2	2	1	1	1	1	1	1	1	3	1
CLO3	3	1	1	2	1	1	1	1	3	1
CLO4	1	1	3	3	1	1	1	1	2	1
CLO5	1	1	2	3	1	1	1	1	2	1
CLO6	2	1	2	3	1	1	1	1	3	1

FUNDAMENTALSOFCOMPUTERAPPLICATIONSANDBASICSOFC(BP26C02)
(85 HRS)

UNITI **(17Hrs)**
IntroductiontoComputer

Definition -History&Generation ofComputer(From First to5th) -Applications ofComputer – Advantages of Computer –Terms related to Computer -Characteristics of Computer:Speed, Storage,VersatilityandDiligence–Hardware&Software.BlockDiagramandWorking

Principle of Computer -Types of Computer:On the Basis of Working -Analog, Digital & Hybrid, on the Basis of Size -Main frame, Mini Computer, Super Computer, Workstation, Micro Computer, Desktop Computer, Laptop Computer, Palmtop Computer; On the basis of Processor–XT, AT & Pentium (i3, i5, i7)

UNITII

(17Hrs)

Memory

Units,Representation,Types -PrimarymemoryandSecondarymemory-CPU:Componentsof CPU-SMPS&Connectingwire-GraphicsCard,SoundCard,NetworkCard–Modem; Input, Outputdevices-Connectingport–Serial,paralleport–USBport.IntroductiontoIndustry4.0 - Need – Reasons for Adopting Industry 4.0 - Definition – Goals and Design Principles – Technologiesof Industry 4.0-Skillsrequiredfor Industry4.0-Advancementsin Industry4.0 – Impact of Industry 4.0 on Society, Business, Government and People - Introduction to 5.0.

UNITIII

(17Hrs)

Overviewof C

Introduction -Character set -C tokens -keyword & Identifiers -Constants -Variables -Data types-Declarationofvariables-Assigningvaluestovariables-DefiningSymbolicConstants - Arithmetic, Relational, Logical, Assignment, Conditional, Bitwise, Special, Increment and Decrement operators -Understanding Boolean Representation in C Arithmetic Expressions - Evaluationofexpression -precedenceofarithmeticoperators-Typeconversioninexpression – operator precedence & associativity - Mathematical functions - Reading & Writing a character - Formatted input and output.

UNITIV

(17Hrs)

DecisionMaking,LoopingandArrays,DecisionMakingand Branching

Introduction – if, if.... else, nesting of if ...else statements- else if ladder – The switch statement,The?;Operator–Th gotoStatement.DecisionMakingandLooping:Introduction-The while statement- the do statement – the for statement-jumps in loops. Arrays – Character Arrays and Strings

UNITV

(17Hrs)

User-DefinedFunctions

Introduction – Need and Elements of User-Defined Functions- Definition-Return Values and their types - Function Calls – Declarations – Category of Functions- Nesting of Functions – Recursion –Passing ArraysandStrings toFunctions - TheScope,VisibilityandLifetimeof

Variables-MultifilePrograms.StructuresandUnions,AITechniquesinC-ImplementLinear Search & Binary Search in C.

Text Books

S.No.	AuthorName	BookName	Publisher	Yearandedition
1.	EBalagurusamy	Computing Fundamentals&C Programming	TataMcGraw-Hill	2008 and 9 th Edn

ReferenceBooks

S.No.	AuthorName	BookName	Publisher	Yearand edition
1.	Ashok NKamthane	Programming withANSIand Turbo C	Pearson	2015and 3 rd Edn.
2.	HenryMullish&Hubert L.Cooper	TheSprit of C	Jaico	1998and 1 st Edn.

RelatedOnlineReferences

1. https://blog.udemy.com/c-programming-basics/?utm_source=chatgpt.com
2. CProgrammingBasics–CLanguageTutorialforBeginners-Udemy

Pedagogy

Thecoursewillbedeliveredusingacombinationoftraditionalandlearner-centredteaching methods, including:

- Lecture-Chalk andTalk
- PowerPointpresentations
- E-contentanddigitallearningresources
- Numericalproblem-solvingexercises
- Groupdiscussions
- Assignments
- Quizzes
- Peerlearning activities
- Student seminars

SkillComponents

- Abilitytounderstandsimplereal-worldproblemsandconvertthemintologicalsteps.

- Designingstep-by-stepprocedures(algorithms)forsolvingprogramming problems.
- WritingcorrectCprogramsusingbasicsyntax,variables,datatypes,and operators.
- Identifyingandcorrectingsyntax andlogicalerrorsinCprograms.
- Usingdecision-making(if,if-else,switch)andloopingstatements(for,while, do-while).

CourseDesigners&Teaching–Learning Strategies

CourseCode & Title	BP26C02,CoreII:FundamentalsofComputerApplications andBasicsofC
CourseDesigners	Mrs.A.Sasikala ,Dr.C. Esakkiammal,
Teaching–Learning Strategies	ParticipatoryLearning30%
	ExperientialLearning:20%
	Problem-basedLearning:50%

Course Code	Course Title	Hours			Credits
		Total	Practical	Examination	
BP26CP1	Core Practical I: Fundamentals and Programming Lab Practical	60	57	3	2

Preamble

- Provides hands-on training in computer applications such as MS Word and MS Excel for preparing documents, managing data, and generating reports.
- Introduces internet-based tools including Google Meet, Google Drive, and Google Forms for digital communication, collaboration, and information sharing.
- Develops logical thinking and basic programming skills through simple C programming exercises.

Prerequisite

- Basic knowledge of computer operations and familiarity with using a keyboard, mouse, and simple software applications.

Course Learning Outcomes (CLOs)

CLO No	Course Learning Outcome	Bloom's Level
CLO1	Identify basic computer tools, MS Office features, internet utilities, and fundamental programming elements used in practical applications.	K1
CLO2	Explain the functions of word processing, spreadsheet operations, online collaboration tools, and basic programming logic.	K2
CLO3	Apply MS Word, MS Excel, and internet tools to prepare business documents, perform spreadsheet operations, and manage digital information.	K3
CLO4	Analyse spreadsheet data and programming logic to organize information, perform sorting, filtering, and interpret computational outputs.	K4
CLO5	Evaluate alternative spreadsheet functions and programming approaches to ensure accuracy and efficiency in data processing tasks.	K5
CLO6	Develop structured C programs and digital forms, reports, and collaborative resources using productivity and internet tools.	K6
K1-Remember; K2-Understand; K3-Apply; K4-Analyze; K5-Evaluate; K6-Create		

Program–CLO Mapping

Program	Coverage	MappedCLOs
Program1-3	MSWord–documentcreation,formatting, mail merge,columns,spell check,formattingtools	CLO1, CLO2, CLO3
Program4-7	MSExcel–spreadsheetcreation,formatting,charts, sorting,filtering,lookupfunctions	CLO1, CLO2, CLO3, CLO4
Program8-10	Internet Basics – Google Meet scheduling, Google Drivefilemanagement,GoogleFormsquizcreation	CLO1, CLO2, CLO3,CLO4, CLO5
Program11-15	CProgramming–arithmeticoperations,conditional statements,loops,arraysandstringmanipulation programs	CLO1, CLO2, CLO3,CLO4, CLO5, CLO6

AlignmentofCLO withPLO

3=High,2 =Medium, 1=Low

CLO\ PLO	PL O1	PLO 2	PLO 3	PLO 4	PLO 5	PLO 6	PLO 7	PLO 8	PLO 9	PLO1 0
CLO1	2	1	1	1	1	1	1	1	3	1
CLO2	2	2	1	1	1	1	1	1	2	1
CLO3	2	1	1	2	1	1	1	1	3	1
CLO4	1	1	3	3	1	1	1	1	2	1
CLO5	1	1	2	3	1	1	1	1	2	1
CLO6	2	1	1	3	1	1	1	1	3	1

FUNDAMENTALSANDPROGRAMMINGLABPRACTICAL(BP26CP1)(57 HRS)**MS-Office**

1. Createanarticleforthenewspaperusingthefeatures:-
 - a. Fontsize,fontstyle,linespacingetc.
 - b. Insertpagenumbersatthebottomrightalignment

- c. Insert the header consisting of date and time, insert footer consisting of page numbers.
- d. Change the paragraph into two or three columns
- e. Check the spelling and grammar
- f. Use bullets and numbering
- g. Use drop cap
- h. Find and replace a word

2. Create a sales report using

- a. Formatting Styles
- b. Inserting table
- c. Changing Text Direction
- d. Cell alignment
- e. Footnote
- f. Hyperlink
- g. Symbols

3. Using mail merge, draft a company general body meeting letter for 10 members.

MS-Excel

4. Enter the data with following fields:

- a) Serial no
- b) Name
- c) Address
- d) City
- e) Date of Joining
- f) Course
- g) Duration
- h) Semesterwise fees
- i) Total Fees

Perform the following:

- a. Change font as bold

- b. Arrange the alignment as centre
 - c. Rename the sheet
 - d. Insert a new sheet
 - e. Move a sheet
 - f. Delete a sheet
 - g. Hide/Unhide Column
 - h. Change Column Width
 - i. Split cells and freeze panes
5. Draw different graphs Column Chart, Line Chart, Pie Chart, Bar Chart, Area Chart, Scatter Chart, for a sample data.
6. Sorting: Sort by Colour, Reverse List, Randomize List, Boolean and logical Operators.
7. Advanced filtering with Multicriteria—including VLOOKUP, HLOOKUP

Internet Basics

8. Create a Gmeet for international conference to be held in your college using Google calendar with
- a. Title of the meet
 - b. Date and Time of the meet
 - c. Setting the reminder of the meet
 - d. Share meeting id to the attendees
 - e. Transfer the host of the meet
9. Create a folder Google Drive
- a. Rename the folder
 - b. Upload the notes, assignment and study material of the core subject
 - c. Share the folder to friends and tutor
 - d. Set the permission to access folder
10. Create a quiz using Google Forms
- a. Rename the title of the form
 - b. Create multiple-choice questions
 - c. Set the answer key for the question
 - d. Assign marks, Collect mail of the respondents and condition for submission

- e. Set the permission to edit and view the form
- f. Share the forms with others to attend the quiz
- g. Release the marks of the quiz

C Program

- 11. Write a C program to perform arithmetic operations (addition, subtraction, multiplication and division) using two numbers.
- 12. Write a C program to check whether a number is even or odd using the if...else Statement.
- 13. Write a C program to print numbers from 1 to 10 using a for loop.
- 14. Write a C program to store 5 numbers in an array and display them.
- 15. Write a C program to reverse a given string.

Skill Component

- Ability to create, format, and manage professional documents using MS Word, including mail merge and layout tools.
- Competence in organizing, analyzing, and visualizing data using MS Excel functions, formulas, sorting, filtering, and charts.
- Ability to use internet tools such as Google Meet, Google Drive, and Google Forms for collaboration, file management, and data collection.
- Capability to design and implement basic C programs using arithmetic operations, control structures, arrays, and string manipulation.

Pedagogy

- Demonstration Method
- Hands-on Practical Training.
- Guided Practice

CourseDesigners&Teaching–Learning Strategies

CourseCode & Title	BP26CP1,CorePracticalI:Fundamentalsand ProgrammingLab Practical
CourseDesigners	Dr.C.Esakkiammal,Dr.A. Meenakshi
Teaching–Learning Strategies	ParticipatoryLearning20%
	ExperientialLearning:60%
	Problem-basedLearning:20%

Course Code	Course Title	Hours			Credit
		Total	Lecture	Examination	
TH26A07	Generic Elective I: Mathematics for Commerce	75	70	5	4

Preamble

- Provides foundational mathematical tools and techniques essential for commerce students.
- Builds an interest in calculation, differentiation, integration, and optimization methods such as linear programming and assignment problems.
- Develops an analytical, problem-solving, and decision-making skills applicable in business, finance, and economics.
- Emphasizes both theoretical understanding and practical application to real-world commercial scenarios.

Prerequisite

- Basic knowledge of algebra, arithmetic, and functions.
- Understanding of high school-level mathematics including sequences, simple equations, and basic graphs.

Course Learning Outcomes (CLOs)

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

CLO No	Course Learning Outcome	Bloom's Level
CLO1	Recall definitions, formulas, and basic concepts related to simple and compound interest, annuities, differentiation, integration, and linear programming.	K1
CLO2	Explain the principles and properties of limits, continuity, differentiation, integration, and optimization techniques in commerce applications.	K2
CLO3	Apply mathematical methods such as differentiation, integration, and linear programming to solve practical problems in commerce like marginal cost, revenue, and assignment problems.	K3
CLO4	Analyze commercial scenarios using mathematical models to determine maxima, minima, and optimal resource allocation through linear programming and assignment problems.	K4
CLO5	Evaluate alternative solutions in optimization problems, compare methods, and justify decisions in commercial contexts using mathematical reasoning.	K5
CLO6	Formulate and design mathematical models to solve real-world commerce problems, integrating concepts from interest calculations, calculus, and linear programming.	K6
K1-Remember; K2-Understand; K3-Apply; K4-Analyze; K5-Evaluate; K6- Create		

Unit–CLO Mapping

Unit	Coverage	MappedCLOs
UnitI	SimpleInterest,CompoundInterest, Annuities	CLO1,CLO2,CLO3
UnitII	Differentiation:Limits,Continuity,Derivatives, Marginalcost/revenue,Maxima&Minima, Elasticity	CLO1,CLO2,CLO3, CLO4
UnitIII	Integration: Standard results, Substitution, Parts, Partialfractions,Definiteintegrals,Applicationsto Cost/Revenue	CLO1,CLO2,CLO3, CLO4, CLO5,CLO6
UnitIV	LinearProgramming:Formulation,Graphical& Simplexmethods,Transportationproblem	CLO1,CLO2,CLO3, CLO4,CLO5,CLO6
Unit V	AssignmentProblem:Formulation, Algorithms, Maximization,UnbalancedModels	CLO2,CLO3,CLO4, CLO5,CLO6

AlignmentofCLO withPLO

3=High,2 =Medium, 1=Low

CLOs\ PLOs	PLO1	PLO2	PLO3	PLO4	PLO5	PLO6	PLO7	PLO8	PLO9	PLO10
CLO1	3	1	2	2	1	1	1	1	1	2
CLO2	3	1	3	3	1	1	1	1	1	2
CLO3	3	1	3	3	1	1	1	1	1	2
CLO4	3	2	3	3	2	1	1	1	2	2
CLO5	3	2	3	3	2	1	1	1	2	2

GENERIC ELECTIVE I: MATHEMATICS FOR COMMERCE (TH26A07) (70Hrs)**UnitI****(13Hrs)**

SimpleInterest-CompoundInterest-Annuities.

UnitII**(14Hrs)**

Differentiation: Introduction – Limits – Limits of a function – properties of limits – Standard limit theorems – Continuity – Properties of Continuous functions – Differentiation – Derivatives of x^n - Derivatives of e^x – Derivatives of $\log e^x$ – product rule – quotient rule – Application of Derivatives – Marginal cost – Marginal revenue – Elasticity – Relation between marginal revenue and elasticity of demand -. Maxima and minima – Point of inflection (Excluding Trigonometric functions).

Unit III

(15 Hrs)

Integration: Arbitrary constant – Two general rules – Some standard results – Integration by Substitution – I – Integration by substitution – II – Integration by Partial fractions – Integration by parts – Definite integral – properties of definite integrals (problems only) – An Application of integration – Marginal cost – Total cost and average cost – Marginal revenue, Total revenue and Average revenue (Excluding Trigonometric functions).

Unit IV

(15 Hrs)

Linear Programming: Meaning and Formulation of LPP – Graphical Method – Simplex Method – Transportation problem: Mathematical formulation of the problem – Initial Basic feasible solution (Matrix Minima Method – North – West Corner rule and VAM) – Simple problems only.

Unit V

(13 Hrs)

Assignment Problem: Introduction – Mathematical formulation of assignment problem – Assignment algorithm – unbalanced Assignment model – maximization case in assignment problems – Simple problems only.

Text Books

S.No.	Author Name	Book Name	Publisher	Year and edition
1.	P.R. Vittal	Business Mathematics and Statistics	Margham Publications	2002
2.	V. Sunderesan, K.S. Ganapathy Subramaniam, K. Ganesan	Operations research	A.R. Publications,	2005, 3rd Edition

Related Online References

<https://nptel.ac.in/courses/111/107/111107128/>

(4 Lectures by Prof. Kusum Deep, Department of Mathematics, Indian Institution of Technology Roorkee)

Lecture 03 Graphical method
Lecture 05 Simplex method
Lecture 28 Transportation Problem
Lecture 29 Assignment Problem

Pedagogy

The course will be delivered using a combination of traditional and learner-centered teaching methods, including:

- Lecture-Chalk andTalk
- PowerPointpresentations
- E-contentanddigitallearningresources
- Numericalproblem-solvingexercises
- Groupdiscussions
- Assignments
- Quizzes
- Peerlearning activities
- Student seminars

CourseDesigners&Teaching–Learning Strategies

CourseCode&Title	TH26A07,&GenericElective:MathematicsforCommerce
CourseDesigners	Mrs.K.Sharmilaa&Mrs.M.Mohanapriya
Teaching–Learning Strategies	ParticipatoryLearning: 25%
	ExperientialLearning: 25%
	Problem-basedLearning: 50%

Course Code	Course Title	Hours			Credits
		Total	Lecture	Examination	
NME26ES	Introduction to Entrepreneurship	30	30	-	2

Preamble

- To introduce the basic concepts and importance of entrepreneurship in economic and social development.
- To familiarize students with entrepreneurial traits, types of entrepreneurs, and the process of starting small enterprises.
- To provide awareness about entrepreneurship development programmes, institutional support, and financial assistance available for entrepreneurs.

Prerequisite

- Basic awareness of business activities, economic environment, and interest in entrepreneurial initiatives.

Course Learning Outcomes (CLOs)

CLO No	Course Learning Outcome	Bloom's Level
CLO1	Define the fundamental concepts, characteristics, and types of entrepreneurship and entrepreneurs.	K1
CLO2	Explain the role of entrepreneurship development programmes, institutional support systems, and government incentives for entrepreneurs.	K2
CLO3	Apply creative thinking and innovation techniques to identify entrepreneurial opportunities and solve business problems.	K3
CLO4	Analyze the significance of intellectual property rights and institutional support in promoting entrepreneurial ventures.	K4
CLO5	Evaluate different project ideas and assess their feasibility using basic project appraisal concepts.	K5
CLO6	Develop a basic project report for a small entrepreneurial venture based on identified opportunities.	K6
K1–Remember; K2–Understand; K3–Apply; K4–Analyze; K5–Evaluate; K6–Create		

Unit–CLO Mapping

Unit	Coverage	MappedCLOs
UnitI	Introduction to Entrepreneurship, factors, barriers, entrepreneurial traits and types, steps for starting small industries, MSMEs, social entrepreneurship	CLO1, CLO2
UnitII	Entrepreneurship Development Programmes, institutional framework (IFCI, ICICI, IDBI, IRBI, EXIM Bank, NSIC, SIDBI, SFC, SIPCOT, TIIC), incentives and subsidies	CLO1, CLO2, CLO3, CLO4
UnitIII	Innovation, types of innovation, creative problem solving, incubators, angel investors, venture capital	CLO1, CLO2, CLO3, CLO4
UnitIV	Intellectual Property Rights – copyright, patents, trademarks, design and registration procedures	CLO1, CLO2, CLO3, CLO4
Unit V	Project identification and classification, project formulation, project appraisal, project report presentation	CLO1, CLO2, CLO3, CLO4, CLO5, CLO6

Alignment of CLO with PLO

3=High, 2 =Medium, 1=Low

CLO \ PLO	PLO1	PLO2	PLO3	PLO4	PLO5	PLO6	PLO7	PLO8	PLO9	PLO10
CLO1	2	1	1	1	1	1	1	1	1	1
CLO2	2	2	1	1	1	1	1	1	1	1
CLO3	2	1	1	3	1	1	1	3	1	1
CLO4	1	1	3	2	1	1	1	1	1	1
CLO5	1	1	3	2	2	1	1	1	1	1
CLO6	1	2	1	2	3	1	1	3	1	1

INTRODUCTION TO ENTREPRENEURSHIP-NME26ES(30 HRS)**UnitI (6hrs)**

Entrepreneurship-Introduction-Factors-Barriers-Entrepreneurial Traits and Types-Steps for starting a Small Industry- MSMEs – Social entrepreneurship.

UnitII (6hrs)

Entrepreneurship Development Programmes-Institutional Framework(IFCI, ICICI, IDBI, IRBI, EXIM Bank, NSIC, SIDBI, SFC, SIPCOT AND TIIC)-Role of Incentives and Subsidies

UnitIII (6hrs)

Innovation-Types–Role-CreativeProblemSolving-Incubators -AngelInvestors-Venture Capital.

UnitIV (6hrs)

IntellectualProperty-Meaning-CopyRightRegistration-Patents-Trademark-Design and Procedure for registration.

UnitV (6hrs)

ProjectPreparation

ProjectidentificationandClassification-ProjectFormulation-ProjectAppraisal-Project Report Presentation.

Text Books

Sl. No.	Author(s)	TitleoftheBook	Publisher	Year of Publication&Edition
1.	Gupta.C.Band Srinivasan.N.P	Entrepreneurial Development	SultanChand and Sons	2020
2	SauhariVinnieand BhushanSudhashu	InnovationManagement	Oxford	2014

ReferenceBooks

Sl. No.	Author(s)	TitleoftheBook	Publisher	Year of Publication & Edition
1.	KolbBonitaM	Entrepreneurshipforthe creativeandcultural industries	Routedge	2015
2.	P.T.Vijayashree& M.Alagammai	EntrepreneurshipandSmall Business Management	Margham	2020