KONGU ARTS AND SCIENCE COLLEGE
(AUTONOMOUS)
Nanjanapuram, Erode - 638 107

DEPARTMENT OF ENGLISH

Programme Outcomes for UG Programme:
At the end of the programme, students will be able to

PO Number	PO Statement
PO1	**Critical Thinking:** Apply the strategies and techniques in order to solve real world problems.
PO2	**Effective Communication:** Communicate the concepts in oral and written form.
PO3	**Social Interaction:** Identify the accurate solutions for the society oriented problems using the domain knowledge.
PO4	**Effective Citizenship:** Attain the ability to identify, formulate and solve challenging problems of the society and nation.
PO5	**Knowledge Formulation:** Demonstrate and apply various specialized areas of advanced topics and its applications using modern tools.
PO6	**Environment and Sustainability:** Instill a sense of attitude in tackling social and environmental issues.
PO7	**Self-directed and Life-long Learning:** Identify their own educational and career needs from the global challenges.

Programme Specific Outcomes:
At the end of the programme, students will be equipped with the Knowledge in

PSO Number	PSO Statement
PSO1	Enhance the acquired LSRW skills and keep pace with the global educational scenario.
PSO2	Build self-confidence by developing linguistic competence.
PSO3	Inculcate within themselves the ethical and moral values in life through the literary aestheticsense and therapeutic value
PSO4	Facilitate to get a reputable job to fulfil their career objectives.
PSO5	Acquire literary perceptions for life-long learning.

Course Outcomes (CO): On completion of the course, students should be able to

COURSE: TAMIL - I

COURSE CODE: 23T01

CO1	இலக்கியங்கள் காட்டும் வாழ்வியல்விழுமியங்களைஅறிந்துகொள்ளல்.
CO2	புதுக்கவிதைகள் வழி பல்வேறுவகைப்பட்டகருத்தாக்கங்களைப் புரிதல்
CO3	வாழ்வியல் நிகழ்வுகளைப் படைப்பிலக்கியங்கள் வழி அறிதல்
CO4	நாட்டுப்பற்றுமற்றும் பொதுவுடைமைச் சிந்தனைகளைப் பகுத்தறிதல்.
CO5	தன்னம்பிக்கைத் திறனைவளர்க்கும் ஆற்றலைப் பெறுதல்.

COURSE: ENGLISH - I

COURSE CODE: 23E01

CO1	Developand integratetheuseofthefour languageskills i.e. Reading,Listening,Speakingand Writing
CO2	Understandthecontentandunderlyingmeaninginthecontext
CO3	Formthehabitofreadingforpleasureandto gather information.
CO4	Comprehendmaterialotherthantheprescribedtext
CO5	Develop the linguistic competence that enables the students, to present the cultureandcivilization oftheirnation

COURSE: CORE – I POETRY

COURSE CODE: 23UAACT101

CO1	Identify and understand the philosophies of the poets of various centuries and countries
CO2	Interpretthedifferentperceptionsofdifferentpoetswhichresembletherealityof life
CO3	Solvetheproblemsoflifeandmultiplemodulesoflifebytraversingthroughdifferentsteps ofpoetic reflections
CO4	Ascertainthesolitudenaturewith reverenceand individual identity throughspiritualism
CO5	Analyzethesharprealitiesoflifeandmakeuseoftheirliteraryknowledgetorevivetheirlives

COURSE: CORE – II PROSE

COURSE CODE: 23UAACT102

CO1	Definethevaluesinthewordsofgreatspiritual leaders andphilosophers
CO2	Interprettheartofbeingempathetictowardssufferersandunderstandthevalueofcharacterbuilding
CO3	Preparepropagation towardsachievingtheirgoalsthroughtheworksofgreat leaders
CO4	Assesstheirroleinthesocietyasintellectualcitizens
CO5	Analyzewithinthemselves andrejuvenatetheirspirits to emergeasgoodhumanbeings

COURSE: CORE – III SHORT STORIES

COURSE CODE: 23UAACT103

CO1	Toconfidentlyread,understandandappreciatea rangeofliterarytext
CO2	Tothinkrigorouslyabout selectedshortstoriesand contextofthem.
CO3	Toprepareand deliverpolishedand carefullyeditedexamples ofshortstories
CO4	Criticallyevaluatetheirownand others' writtenmaterials.
CO5	Engageproductivelyand respectivelywiththeirpeers

COURSE: ALLIED – I SOCIAL HISTORY OF ENGLAND

COURSE CODE: 23UAAAT104

CO1	Assess the history of Britain as a coherent, chronological narrative, from the earliest times to the present day.
CO2	Get exposure to the chronicles of England and to becognizant with their evolution
CO3	Identify the critical ideas, values and themes that appear in literary and cultural texts of various genres
CO4	Analyze the impact of socio-political history representing literary and cultural texts within a significant span of time in the past.
CO5	Perceive how British literature reflects or/and refracts the Britain's history

COURSE: FC-I ENVIRONMENTRAL STUDIES - I
COURSE CODE: 23ES01

CO1	Compile different types of ecosystems and its energy flow.
CO2	Analyze the impacts of Natural resources
CO3	Apply the concepts of biodiversity and its conservation.
CO4	Create awareness on disaster management and measures to prevent pollution.
CO5	Outline the environmental policies and its practices.

SEMESTER- II

Course Outcomes (CO): On completion of the course, students should be able to
COURSE: TAMIL- II
COURSE CODE: 23T02

CO1	அறஇலக்கியங்கள்வாயிலாகவாழ்வியல் விழுமியங்களைஅறிதல்.
CO2	சமயப்பாடல்கள் வழி பல்சமயக் கோட்பாடுகளைப் பகுத்தறிதல்.
CO3	படைப்பிலக்கியங்கள் கொண்டுபழந்தமிழர் வரலாற்றைஉணர்தல்.
CO4	மதநல்லிணக்கத்தைப் புரிந்துகொள்ளல்.
CO5	படைப்பாற்றல் திறனைவளர்த்துக்கொள்ளுதல்.

COURSE: PART – II ENGLISH - II
COURSE CODE: 23E02

CO1	To introduce learners to the essential skills of communication in English
CO2	To enable the students, use these skills effectively in academic and non-academic contexts.
CO3	To help them identify and eliminate common mistakes in writing and speaking.
CO4	To enable the learners use various business communication strategies and to use advanced vocabulary.
CO5	To familiarize them in writing descriptive essays and respond to arguments.

COURSE: CORE – IV DRAMA
COURSE CODE: 23UAACT201

CO1	Define the most important elements of drama.
CO2	Explain the themes and motives of Shakespearean tragedy.
CO3	Predict the plays by discovering the specific features of plot and characters.
CO4	Examine the themes and motives of Girish Karnad plays.
CO5	Critique the psychological problems in human lives.

COURSE: CORE – V FICTION
COURSE CODE: 23UAACT202

CO1	Recognizetheaestheticsensevalueand sensethatispresentinLiterature
CO2	Comparetheculturepresentedinthenovelwiththecultureofthelearners.
CO3	Examinetheculturalaspectsofthesocietythatisreflectedin thenovel.
CO4	BuildaPostmodernthoughtwiththedevelopmentofnarration.
CO5	DecidesocialvaluesandculturalbackgroundoftheNigerianfolks.

COURSE: CORE – VI ONE – ACT PLAYS
COURSE CODE: 23UAACT203

CO1	Tomasterthehistory,literature,theories,andperformanceskillsprerequisiteto advancedtraining in theatrearts.
CO2	Todevelopamorecomplexunderstandingoftheco-curricularrelationshipsthat existwithin the broaderliberal arts disciplines.
CO3	Tobeabletoarticulatetheformal,technical,historical,andtheoreticalattributesoftheirworkand the work of others.
CO4	Comprehendtheimaginative,creativeandartistic styleand valuesofthedrama
CO5	Tobeabletodescribe, analyze,interpretandevaluatedramatic literature.

COURSE: ALLIED – II HISTORY OF ENGLISH LITERATURE AND LANGUAGE
COURSE CODE: 23UAAAT204

CO1	Compileknowledgeaboutthestatus ofliterary proceedings duringtheperiodofpioneersamong Englishwriters
CO2	Analyzethehappeningsin thesocietythroughgreatwriters
CO3	Critiqueanideaabout thevariousgenresinEnglish literaturewhichexplicatethegeniusofdifferent writers
CO4	Comprehendwhichgenreprevailedatthetopaspertheskillofthewritersandaccordingto thetasteof thepeople
CO5	Evaluateanideaaboutthe changesthatoccurredin Englishwritingsduringmodernera

COURSE: ALC– II VALUE EDUCATION
COURSE CODE: 23VE01

CO1	IdentifythevaluestobeadoptedintheirPersonal,ProfessionalandSociallife.
CO2	Developpersonality andsocialcohesion throughvariousskills inculcated.
CO3	Constructco-ordinal relationshipwiththefamilymembers.
CO4	Identifythechallengesanduncertaintiesofthedynamicenvironmentand empoweredtoconfrontthemwithclarity,courageandcomposure.
CO5	Buildupsocialsenseandcommitmentandtodiscriminatesocialevils fromvirtues.

DEPARTMENT OF ENGLISH

Programme Outcomes for PG Programme:
At the end of the programme, students will be able to

PO Number	PO Statement
PO1	**Critical Thinking:** Take informed actions after identifying the assumptions that frame our thinking and actions, checking out the degree to which these assumptions are accurate and valid, and looking at our ideas and decisions (intellectual, organizational and personal) from different perspectives.
PO2	**Effective Communication:** Speak, read, write and listen clearly in person and through electronic media in English and in any one Indian language, and make meaning of the world by connecting people, ideas, books, media and technology.
PO3	**Social Interaction:** Elicit views of others, mediate disagreements and help to reach conclusions in group settings.
PO4	**Effective Citizenship:** Demonstrate empathetic social concern and equity centered national development, and the ability to act with an informed awareness of issue and participate in civic life through volunteering.
PO5	**Ethics:** Recognize different value systems including your own, understand the moral dimensions of your decisions, and accept responsibility for them.
PO6	**Environment and Sustainability:** Understand the issues of environmental contexts and sustainable development.
PO7	**Self-directed and Life-long Learning:** Acquire the ability to engage in independent and life-long learning in the broadest context of socio-technological changes.

Programme Specific Outcomes:
At the end of the Programme, students are expected to

PSO Number	PSO Statement
PSO1	Critically interpret and analyze the nuances of life at every stage through the acquired knowledge of literature.
PSO2	Identify and evaluate appropriate methods and formulations for productive research.
PSO3	Acquire linguistic and literary competence to pursue a respectable career.
PSO4	Equip themselves as responsible citizens catering to the societal needs.
PSO5	Develop a thirst for life-long learning encompassing ethical and moral values.

SEMESTER -I

Course Outcomes (CO): On completion of the course, students should be able to
Course Name: CORE PAPER I: BRITISH LITERATURE - I
Course Code: 23PBACT101

CO1	Identifythenuancesofthepoeticlanguageandpoeticdevices.
CO2	Accesstherhythms, metricsand othermusical aspects ofpoetryandappreciatethesublimityof Poets' style.
CO3	ComputetheimportanceofstyleofbrevityandacknowledgethestylisticaspectinLiterature.
CO4	Infertherhetoricaspectofhistoricaldramaandlearnmoralvalues.
CO5	Appraisevariouscriticaltheoriesandexaminethe techniquesofliterarycriticism.

Course Name: CORE PAPER II: INDIAN WRITNG IN ENGLISH
Course Code: 23PBACT102

CO1	Outlineknowledgeabout IndianSociety
CO2	comprehendtheimportanceofIndianHistory,Culture,ReligionandAesthetics
CO3	Compareknowledge about thePolitical milieuinIndianHistory
CO4	Analyzetheimportanceof humanidentity inthesociety
CO5	DiscussknowledgeaboutotherIndianWritersinEnglish,theirLiterarystyleandtheirinterpretationabout thehappenings in thesociety

Course Name: CORE PAPER III: AFRO AMERICAN LITERATURE
Course Code: 23PBACT103

CO1	UnderstandtheAfro-Americanwritingsatdifferentperiods
CO2	Identifythethemeslikeslavery,racismanddominationofAfro-Americanpeoplein thesociety
CO3	Formulatethe importanceof equality,freedom and rights foreveryoneinsociety
CO4	Analyze the Afro-American people's thoughts and ideas through the works ofwriters
CO5	CritiquethecultureofAfro-Americanpeople

Course Name: CORE PAPER IV THE STUDY OF ENGLISH LANGUAGE
Course Code: 23PBACT104

CO1	ConceivethehistoricalbackgroundoftheoriginofspeechandEnglishlanguage
CO2	ClassifytheideasabouttheEnglishlanguageusedduringdifferentperiodsinhistory
CO3	ComputethegreatchangesthatcausedagreatimpactontheEnglishLanguageanditsusage
CO4	Analyzewhythechangesoccurredandthe needforchangeto gainastandard
CO5	Relatethecauses fortheevolution ofLinguaFranca

Course Name: CORE PAPER – V CRITICAL THEORIES - I
Course Code: 23PBACT105

CO1	Statethetraditionaltheoriesandthepioneerswho formedthem.
CO2	Comprehendhowpsychologyplaysagreaterpartincreationandimagination.
CO3	Comparetheother theories which flourishedin thecourseoftime.
CO4	AnalyzethecombinationofCriticism andEnglishLanguageinLiterature.
CO5	Critiquethesignificanceofarchetypestostrengthenthesearchofcriticisminlife andliterature.

Course Name: ELECTIVE – I A RETOLD CLASSICS
Course Code: 23PBAET106

CO1	Definekeyconceptsinmythicalstorieswhichevolvedintophilosophies.
CO2	ExplainmyriadthingsaboutlifethroughIndianMyths.
CO3	Relatetheplightof womenin epics.
CO4	Determinetheethnocentricjudgmentsmadeincross-cultures.
CO5	Critiquetheprudenceofgreateststrategistin theIndianHistory

Course Name: ELECTIVE – I B LITERATURE AND PSYCHOLOGY
Course Code: 23PBAET107

CO1	Formulateacomprehensibleoutlookofthepowerofmindandthoughtsinthegrowth of personality
CO2	Computethesensitizationaboutthewisdomofgettingsatisfiedinlittle thingsforeverlastinghappiness
CO3	Analyzetherealities of lifeand getanawareness aboutthereal values oflife
CO4	Evaluatethecauses formentalanguishandmoraldilemmas ofthepeople
CO5	Critiquethelinkbetweenliteratureandpsychologywhichguideshumanbeingsto attain tranquility.

Course Name: ELECTIVE – I C SOUTH ASIAN LITERATURE
Course Code: 23PBAET108

CO1	IdentifydistinctiveliterarystrategiesanddevicesdeployedinSouthAsianwriting
CO2	Analyzepre-eminentliterarytextsorartisticartifactsofSouth-Asianculture.
CO3	DiscussSouthAsianliterarytextsintheirappropriatehistoricalandculturalcontexts.
CO4	AssessthethemesrepresentedinSouth-Asianliterature.
CO5	Critiqueonpostcolonialandtheoreticalapproaches appliedtothesewritings.

SEMESTER - II

Course Outcomes (CO): On completion of the course, students should be able to

Course Name: CORE – VI BRITISH LITERATURE - II

Course Code: 23PBACT201

CO1	Relatetheprolificwritingstyleandversatility ofBritish Writers.
CO2	Interpretthesocial,culturalandhistoricalfeatures ofdrama anditsroleinliterature.
CO3	Explainthephilosophy, creativityandartisticstyleinthewritingsofthenovelists.
CO4	Analyzethevariousformsofpoetrysuchasdiction,tone,form,imageryand figuresofspeech.
CO5	CritiquethemethodsandtechniquesofCriticism.

Course Name: CORE- VII GENDER AND LITERATURE

Course Code: 23PBACT202

CO1	Identifyvariousgendersascentralconcepts tothereadingofEnglishLiterature
CO2	GrasptheMultifariousgendernotionsanditsvariationsthroughexperience
CO3	Applythegendertheorizingmethodstoassociatethegendertextwith literature
CO4	Describethecomplexconceptsthatareemotionally influencedingenderwriting
CO5	Synthesizetheactions ofMasculineandFemininethatarenotfixed butfluid

Course Name: CORE- VIII ENGLISH LITERATURE FOR COMPETITIVE EXAMS- I

Course Code: 23PBACT203

CO1	UnderstandtherichlegacyofEnglishLiteratureandthecontributionoflegendarywritersto thedevelopment of English Literature
CO2	Developproblem-solving,criticalandoriginal thinking.
CO3	Buildthethinkinglevelto makeuseoftheacquiredknowledge.
CO4	Inculcatecriticalreasoningandanalyticalskills
CO5	Analyzethekeyliteraryfiguresofalltimeandtheircontributiontotheirrespective literaryscene

Course Name: CORE – IX RESEARCH METHODOLOGY

Course Code: 23PBACT204

CO1	Statetheimportanceof researchwriting
CO2	Utilizethetechniques of compiling thedocuments
CO3	Compiletheirresearchworkinastipulated formattomakeitunderstandableforotherresearchers
CO4	Assessthesignificanceoforiginal researchwork andthetechnique ofcompiling thework
CO5	Evaluatethecompilation ofworkscitedinastandardformattomatchtheirresearchdocumentsto theworksofotherresearchers across theworld

Course Name: CORE – X CRITICAL THEORIES - II

Course Code: 23PBACT205

CO1	Identifythestudyasacriticanalyzing apieceofworkofart.
CO2	Discussthecategories ofanalyzingatext.

CO3	Useknowledgeofthecurrent status ofthecriticalfield.	
CO4	Analyzethespecificimportancegiventowomeninlifethroughliterature.	
CO5	Utilizethe multipleroles ofliteratureandcriticism.	

Course Name: ELECTIVE – II A SHAKESPEARE ACROSS CULTURES
Course Code: 23PBAET206

CO1	Outlinetheposition ofthePostcolonial,Feminist,PostmodernandQueerperspectivesof Shakespearean drama.
CO2	IdentifyandexplainthetransfigurationsofShakespearean playsindiversecultures
CO3	AnalyzetheShakespeareanplaysfromdiscoursesofrace,gender,nationandgeopolitics.
CO4	Creativelyinterrogatetheconspicuousabsences,racialprejudicesandethnicintolerancesin Shakespearean drama.
CO5	PredictthepowerstructuresandimperialovertonesinShakespeareandrama.

Course Name: ELECTIVE – II BCARIBBEAN LITERATURE
Course Code: 23PBAET207

CO1	IdentifythekeyissuesinCaribbeanLiteratureand appraiseitshistoricalbackgroundand significant themes.
CO2	Assessthefascinating anddiverseliterarytraditionsoftheCaribbeanIslands,fromEuropeancolonization to themodern day.
CO3	AnalysethekeyfactorsshapingdebatesabouttheCaribbeanNationandIdentity.
CO4	EvaluatetheLiteraryand AestheticmeritsofCaribbeanWritings.
CO5	CritiqueonCaribbeanIdentity, CultureandSociety.

Course Name: ELECTIVE – II C EDUCATIONAL PSYCHOLOGY
Course Code: 23PBAET208

CO1	Applythetechniquesforsocialinteraction
CO2	Altertheirpersonalitytraits
CO3	Planthetechniquesofself-directednessandlifelonglearning
CO4	Modifytheircriticalthinking
CO5	Developconfidencetobecomeeffectivecitizensthroughtheknowledgegained

KONGU ARTS AND SCIENCE COLLEGE

(AUTONOMOUS)

Nanjanapuram, Erode - 638 107

DEPARTMENT OF COMMERCE

Programme Outcomes for UG Programme:
At the end of the programme, students will be able to

PO Number	PO Statement
PO1	**Critical Thinking:** Take informed actions after identifying the assumptions that frame our thinking and actions, checking out the degree to which these assumptions are accurate and valid, and looking at our ideas and decisions (intellectual, organizational and personal) from different perspectives.
PO2	**Effective Communication:** Speak, read, write and listen clearly in person and through electronic media in English and in any one Indian language, and make meaning of the world by connecting people, ideas, books, media and technology.
PO3	**Social Interaction:** Elicit views of others, mediate disagreements and help to reach conclusions in group settings.
PO4	**Effective Citizenship:** Demonstrate empathetic social concern and equity centered national development, and the ability to act with an informed awareness of issue and participate in civic life through volunteering.
PO5	**Ethics:** Recognize different value systems including your own, understand the moral dimensions of your decisions, and accept responsibility for them.
PO6	**Environment and Sustainability:** Understand the issues of environmental contexts and sustainable development.
PO7	**Self-directed and Life –long Learning:** Acquire the ability to engage in independentand life-long learning in the broadest context of socio-technological changes.

Programme Specific Outcomes:
At the end of the programme, students are expected to

PSO Number	PSO Statement
PSO1	To provide strong base on the course relevant to the area of commerce this helps to choose their career.
PSO2	To enhance knowledge and skills among students which build confident to identify their career opportunities in multiple dimensions.
PSO3	Nurture the students in intellectual, personal; inter personal and social skills with a focus on relevant professional career particularly to maximize professional growth.
PSO4	Empower the students with necessary competencies and decision making skills to foster the innovative thinking to become an entrepreneur.
PSO5	Strengthen the students to become expert in field of communication with ethical consciousness.

SEMESTER: I

Course Outcomes (CO): On completion of the course, students should be able to

Course Name: PART – I TAMIL - I

Course Code: 23T01

CO1	இலக்கியங்கள் காட்டும் வாழ்வியல்விழுமியங்களைஅறிந்துகொள்ளல்.
CO2	புதுக்கவிதைகள் வழி பல்வேறு வகைப்பட்ட கருத்தாக்கங்களைப் புரிதல்.
CO3	வாழ்வியல் நிகழ்வுகளைப் படைப்பிலக்கியங்கள் வழி அறிதல்.
CO4	நாட்டுப்பற்று மற்றும் பொதுவுடைமைச் சிந்தனைகளைப் பகுத்தறிதல்.
CO5	தன்னம்பிக்கைத் திறனை வளர்க்கும் ஆற்றலைப் பெறுதல்.

Course Name: PART – II ENGLISH - I

Course Code: 23E01

CO1	Develop and integrate the use of the four language skills i.e. Reading, Listening, Speaking and Writing
CO2	Understand the content and underlying meaning in the context.
CO3	Form the habit of reading for pleasure and to gather information.
CO4	Comprehend material other than the prescribed text
CO5	Develop the linguistic competence that enables the students, to present the culture and civilization of their nation.

Course Name: CORE PAPER I : FINANCIAL ACCOUNTING - I

Course Code: 23UADCT101

CO1	Plan the accounting concepts and procedures and significance of double entry system.
CO2	Apply the concept of book keeping and rectification of errors.
CO3	Assess the Bank reconciliation statement and apply how to resolve difference between cash book and pass book in a systematic manner
CO4	Analyze the technique of accounting relating to accommodation bills and its special treatment.
CO5	Evaluate the calculation procedure involved in the preparation of financial statements.

Course Name: CORE PAPER II: BUSINESS ENVIRONMENT

Course Code: 23UADCT102

CO1	Identify the scope and characteristics of modern business.
CO2	Interpret the monetary and fiscal policy.
CO3	Apply the promotional role and planning role of SEBI in business.
CO4	Analyze the business ethics and social responsibility of business.
CO5	Evaluate the elements of technological environment and its effects.

Course Outcomes (CO): On completion of the course, students should be able to
Course Name: CORE PAPER III: OFFICE MANAGEMENT
Course Code: 23UADCT103

CO1	Familiarized with modern office management.
CO2	Adapt with the modern work atmosphere
CO3	Trained in maintaining the office independently and effectively.
CO4	Ability to organize data records in office
CO5	Motivated to act as a company secretary

Course Name: ALLIED I : MICRO ECONOMICS
Course Code: 23UADAT104

CO1	Remember the basic theories of micro economics and economic system
CO2	Understand the demand and supply function of price and quantity.
CO3	Apply the concept of production function and its implications in a market on firm output decisions.
CO4	Analyze the different cost conditions under various time periods.
CO5	Evaluate the market structure and price discrimination in various markets.

Course Name: FOUNDATION COURSE – I: ENVIRONMENTAL STUDIES
Course Code: 23ES01

CO1	Compile different types of ecosystem and its energy flow.
CO2	Analyze the impacts of Natural resources
CO3	Apply the concepts of biodiversity and its conservation.
CO4	Create awareness on disaster management and measures to prevent pollution.
CO5	Outline the environmental policies and its practices.

SEMESTER: II

Course Outcomes (CO): On completion of the course, students should be able to

Course Name: Core IVFINANCIAL ACCOUNTING – II

Course Code: 23UADCT201

CO 1	Prepare the accounting statements of consignment.
CO 2	Identify the methods and applications of Depreciation.
CO 3	Apply the system of accounting followed in Hire Purchase system.
CO 4	Analyze accounting treatment required for admission and retirement in partnership firms.
CO 5	Evaluate the accounting procedures involved in dissolution of partnership.

Course Name: Core – V -MODERN MARKETING

Course Code: 23UADCT202

CO 1	Define the fundamental concepts of Marketing and Marketing Mix
CO 2	Demonstrate the product life cycle and new product development.
CO 3	Apply and Develop knowledge about different pricing strategies a firm can utilize
CO 4	Analyze the various channels of distribution and sales promotion techniques.
CO 5	Evaluate the process of modern marketing techniques.

Course Name: Core VI: BUSINESS MANAGEMENT

Course Code: 23UADCT203

CO 1	On successful completion of the paper students will be able to understand about organization structure and its process.
CO 2	Paraphrase the importance of planning and decision making in an organization.
CO 3	Comprehend the concept of various authorizes and responsibilities of an organization
CO 4	Enumerate the various methods of Performance appraisal
CO 5	Demonstrate the notion of directing, co-coordination and control in the management.

Course Name: Foundation Course – II: Value Education

Course Code: 23VEOT01

CO 1	Identify the values to be adopted in their personal, Professional and social life.

CO 2	Develop personality and social cohesion through various skills inculcated.
CO 3	Construct co-ordinal relationship with the family members.
CO 4	Identify the challenges and uncertainties of the dynamic environment and empowered to confront them with clarity, courage and composure.
CO 5	Buildup social sense and commitment and to discriminate social evils from virtues.

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(AUTONOMOUS)
Nanjanapuram, Erode - 638 107
DEPARTMENT OF COMMERCE (CA)

Programme Outcomes for UG Programme:

At the end of the programme, students will be able to

PO Number	PO Statement
PO1	**Critical Thinking:** Take informed actions after identifying the assumptions that frame our thinking and actions, checking out the degree to which these assumptions are accurate and valid, and looking at our ideas and decisions (intellectual, organizational and personal) from different perspectives.
PO2	**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.
PO3	**Social Interaction:** Elicit views of others, mediate disagreements and help reach conclusions in group settings.
PO4	**Effective Citizenship:** Demonstrate empathetic social concern and equity centered national development, and the ability to act with an informed awareness of issue and participate in civic life through volunteering.
PO5	**Ethics:** Recognize different value systems including your own, understand the moral dimensions of your decisions, and accept responsibility for them.
PO6	**Environment and Sustainability:** Understand the issues of environmental contexts and sustainable development.
PO7	**Self-directed and Life-long Learning:** Acquire the ability to engage in independent and life-long learning in the broadest context socio-technological changes.

Programme Specific Outcomes:

At the end of the programme, students are expected to

PSO	PSO Statement
PSO1	Gain knowledge in the field of Commerce and Computer Applications.
PSO2	Use mathematical, analytical and statistical tools for financial and accounting analysis.
PSO3	Apply current techniques, skills and tools necessary for computing practices.
PSO4	Effectively communicate, make decisions and solve problems in day to day business affairs.
PSO5	Meet the industrial expectations in the changing global competitive business environment by continuously providing domain knowledge.

Course Outcomes (CO) : On the Completion of the course, students should be able to

COURSE: PART I TAMIL I

COURSE CODE: 23T01

CO1	இலக்கியங்கள் காட்டும் வாழ்வியல்விழுமியங்களைஅறிந்துகொள்ளல்.
CO2	புதுக்கவிதைகள் வழி பல்வேறு வகைப்பட்ட கருத்தாக்கங்களைப் புரிதல்.
CO3	வாழ்வியல் நிகழ்வுகளைப் படைப்பிலக்கியங்கள் வழி அறிதல்.
CO4	நாட்டுப்பற்றுமற்றும் பொதுவுடைமைச் சிந்தனைகளைப் பகுத்தறிதல்.
CO5	தன்னம்பிக்கைத் திறனை வளர்க்கும் ஆற்றலைப் பெறுதல்.

COURSE: FRENCH PAPER I

COURSE CODE: 23F01

CO1	Possess a basic knowledge of Self-introduction.
CO2	Learn to interrogate.
CO3	Acquire some basic knowledge of Adjectives.
CO4	Express how to go and return.
CO5	Enquire about few things.

COURSE: PART II ENGLISH I

COURSE CODE: 23E01

CO1	Develop and integrate the use of the four language skills i.e. Reading, Listening, Speaking and Writing
CO2	Understand the content and underlying meaning in the context.
CO3	Form the habit of reading for pleasure and to gather information.
CO4	Comprehend material other than the prescribed text
CO5	Develop the linguistic competence that enables the students, to present the cultureand civilization of their nation.

COURSE: CORE I : FINANCIAL ACCOUNTING - I

COURSE CODE: 23UAECT101

CO1	Plan the accounting concepts and procedures and significance of double entry system.
CO2	Apply the concept of book keeping and rectification of errors.
CO3	Assess the Bank reconciliation statement and apply how to resolve difference between cash book and pass book in a systematic manner
CO4	Analyze the technique of accounting relating to accommodation bills and its special treatment.
CO5	Evaluate the calculation procedure involved in the preparation of financial statements.

COURSE: CORE II: INTRODUCTION TO INFORMATION TECHNOLOGY

COURSE CODE: 23UAECT102

CO1	Remember the computer basics and peripheral devices.
CO2	Understand the data processing concepts.
CO3	Understand about the software and programming languages.
CO4	Apply the Operating System applications.
CO5	Evaluate the various networks.

COURSE: CORE III: COMPUTER APPLICATIONS PRACTICAL-I (OFFICE PACKAGES)

COURSE CODE: 23UAECP103

CO1	Understand the basic techniques of working MS Word.
CO2	Apply various formulas and features in MS Excel.
CO3	Create presentations for seminars and lectures using MS Power Point.
CO4	Analyze the working of a database using MS Access.
CO5	Understandthe usage of computerized packages for business transactions using Tally.

COURSE: ALLIED – I BUSINESS MATHEMATICS

COURSE CODE: 23UAEAT104

CO1	Recall the set theory concepts and understand the concepts of Arithmetic and geometric series.
CO2	Know the basic concepts of financial mathematics.
CO3	Understand and apply the matrix concepts and operations.
CO4	To gain knowledge on differential and integral calculus.
CO5	Analyze the LPP using graphical and simplex methods.

COURSE: FOUNDATION COURSE – I: ENVIRONMENTAL STUDIES

COURSE CODE: 23ES01

CO1	Compile different types of ecosystem and its energy flow.
CO2	Analyze the impacts of Natural resources
CO3	Apply the concepts of biodiversity and its conservation.
CO4	Create awareness on disaster management and measures to prevent pollution.
CO5	Outline the environmental policies and its practices.

Course Outcomes (CO) : On the Completion of the course, students should be able to

COURSE: PART I TAMIL II

COURSE CODE: 23T02

CO1	அறஇலக்கியங்கள்வாயிலாகவாழ்வியல் விழுமியங்களைஅறிதல்.
CO2	சமயப்பாடல்கள் வழி பல்சமயக் கோட்பாடுகளைப் பகுத்தறிதல்.
CO3	படைப்பிலக்கியங்கள் கொண்டுபழந்தமிழர் வரலாற்றைஉணர்தல்.
CO4	மதநல்லிணக்கத்தைப் புரிந்துகொள்ளல்.
CO5	படைப்பாற்றல் திறனைவளர்த்துக்கொள்ளுதல்.

COURSE: FRENCH PAPER II

COURSE CODE: 23F02

CO1	Possess a Sound Knowledge of some of the Itinerary.
CO2	Ask about way.
CO3	Request about anything and its price in the market/restaurant.
CO4	Ask about anything and give information.
CO5	Invite guest and visit an apartment.

COURSE: PART II ENGLISH II

COURSE CODE: 23E01

CO1	To introduce learners to the essential skills of communication in English
CO2	To enable the students use these skills effectively in academic and non-academic contexts.
CO3	To help them identify and eliminate common mistakes in writing and speaking.
CO4	To enable the learners use various business communication strategies and to use advanced vocabulary.
CO5	To familiarize them in writing descriptive essays and respond to arguments.

COURSE: CORE IV : FINANCIAL ACCOUNTING - II
COURSE CODE: 23UAECT201

CO1	Prepare the accounting statements of consignment.
CO2	Identify the methods and applications of Depreciation.
CO3	Apply the system of accounting followed in Hire Purchase system.
CO4	Analyze accounting treatment required for admission and retirement in partnership firms.
CO5	Evaluate the accounting procedures involved in dissolution of partnership.

COURSE: CORE V: PRINCIPLES OF MARKETING
COURSE CODE: 23UAECT202

CO1	Remember the basic principles of marketing.
CO2	Understanding the modern marketing ethics.
CO3	Apply the product policies for product planning and development.
CO4	Analyze the concepts of sales promotion, personal selling and advertising.
CO5	Evaluate the role of Government in consumer protection.

COURSE: CORE CORE VI: COMPUTER APPLICATIONS PRACTICAL - II
(ACCOUNTING PACKAGES)
COURSE CODE: 23UAECP203

CO1	Recall the company creation and voucher entries using Tally.
CO2	Understand the usage of computerized packages for business transactions using Tally.
CO3	Examine the financial statements.
CO4	Evaluate the inventory statements.
CO5	Analyze the performance of an organization by using ratio analysis.

COURSE: ALLIED – II BUSINESS STATISTICS

COURSE CODE: 23UAEAT204

CO1	Understand and interpret different types of data.
CO2	Know about the measures of central tendency and dispersion.
CO3	Gain the knowledge on correlation and regression analysis.
CO4	Analyze the test of index numbers.
CO5	Understand and apply the different methods in time series.

COURSE: FOUNDATION COURSE – II: VALUE EDUCATION

COURSE CODE: 23VE01

CO1	Identify the values to be adopted in their personal, Professional and social life.
CO2	Develop personality and social cohesion through various skills inculcated.
CO3	Construct co-ordinal relationship with the family members.
CO4	Identify the challenges and uncertainties of the dynamic environment and empowered to confront them with clarity, courage and composure.
CO5	Buildup social sense and commitment and to discriminate social evils from virtues.

KONGU ARTS AND SCIENCE COLLEGE
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Nanjanapuram, Erode - 638 107

DEPARTMENT OF CORPORATE SECRETARYSHIP WITH COMPUTER APPLICATIONS

Programme Outcomes for UG Programme:

At the end of the programme, students will be able to

PO Number	PO Statement
PO1	**Critical Thinking:** Take informed actions after identifying the assumptions that frame our thinking and actions, checking out the degree to which these assumptions are accurate and valid, and looking at our ideas and decisions (intellectual, organizational, and personal) from different perspectives.
PO2	**Effective Communication**: Speak, read, write and listen clearly in person and through electronic media in English and in any one Indian language, and make meaning of the world by connecting people, ideas, books, media and Technology.
PO3	**Social Interaction:** Elicit views of others, mediate disagreements and help to reach conclusions in group settings.
PO4	**Effective Citizenship:** Demonstrate empathetic social concern and equity centred national development, and the ability to act with an informed awareness of issues and participate in civic life through volunteering.
PO5	**Ethics:** Recognize different value systems including your own, understand the moral dimensions of your decisions, and accept responsibility for them.
PO6	**Environment and Sustainability:** Understand the issues of environmental contexts and sustainable development.
PO7	**Self-directed and Life-long Learning:** Acquire the ability to engage in independent and life-long learning in the broadest context socio technological changes.

Programme Specific Outcomes for B.Com(CSCA)

At the end of the programme, students will be equipped with the Knowledge in

PSO Number	PO Statement
PSO1	The area of Corporate Governance.
PSO2	The field of various Laws and use of digital technology.
PSO3	Identifying and adopting the legal compliance in Corporate Sector
PSO4	Accounting system and its applications by use of IT tools.
PSO5	Understanding, analyzing and solving problems in Corporate Sector for better Corporate Management.

SEMESTER-I

Course Name: Tamil-I
Course Code: 23T01

CO 1	இலக்கியங்கள் காட்டும் வாழ்வியல் விழுமியங்களை அறிந்து கொள்ளல்.
CO 2	புதுக்கவிதைகள் வழி பல்வேறு வகைப்பட்ட கருத்தாக்கங்களைப் புரிதல்.
CO 3	வாழ்வியல் நிகழ்வுகளைப் படைப்பிலக்கியங்கள் வழி அறிதல்.
CO 4	நாட்டுப்பற்று மற்றும் பொதுவுடைமைச் சிந்தனைகளைப் பகுத்தறிதல்.
CO 5	தன்னம்பிக்கைத் திறனை வளர்க்கும் ஆற்றலைப் பெறுதல்.

Course Name: English-I
Course Code: 23E01

CO 1	Develop and integrate the use of the four language skills i.e. Reading, Listening,Speaking and Writing
CO 2	Understand the content and underlying meaning in the context.
CO 3	Form the habit of reading for pleasure and to gather information.
CO 4	Comprehend material other than the prescribed text
CO 5	Develop the linguistic competence that enables the students, to present the cultureand civilization of their nation.

Course Name: Hindi-I
Course Code: 23H01

CO1	Acquire knowledge and understand about various aspects of Hindi Literature
CO2	Analyze the characteristic features of people and evaluate their circumstances
CO3	Write letters for various occasions
CO4	Apply the appropriate grammar forms in communication
CO5	Write expository essays in Hindi on various topics

CourseName:Sanskrit-I Course
Code: 23S01

CO1	Gain introductory knowledge about the Sanskrit Language
CO2	Apply the knowledge gained through our rich cultural heritage
CO3	Acquire various information about Epic Literature
CO4	Develop a better understanding of Sanskrit grammar
CO5	Cultivate the good values among oneself

Course Name: French Paper I
Course Code: 23F01

CO1	Possess a basic knowledge of Self-introduction
CO2	Learn to interrogate
CO3	Acquire some basic knowledge of Adjectives
CO4	Express how to go and return
CO5	Enquire about few things

Course Name: Financial Accounting-I
Course Code: 23UAFCT101

CO 1	Plan the accounting concepts & procedures and significance of double entry system.
CO 2	Apply the concept of book keeping and rectification of errors.
CO 3	Assess the Bank reconciliation statement and apply how to resolve difference between cash book and pass book in a systematic manner
CO 4	Analyze the technique of accounting relating to accommodation bills and its special treatment.
CO 5	Evaluate the calculation procedure involved in the preparation of financialstatements.

Course Name: Core II: Introduction To Computer Applications
Course Code: 23UAFCT102

CO 1	Demonstrate about the basic concepts of Computer.
CO 2	Assess about MS word.
CO 3	Apply the formula for entering in worksheet.
CO 4	Utilize the knowledge about creation of Power point.
CO 5	Analyse about MS Access.

Course Name: CORE III: COMPANY LAW & SECRETARIAL PRACTICE-I
Course Code: 23UAFCT103

CO 1	Identify the characteristics and Classification of Companies.
CO 2	Understand the procedures regarding Alteration of Memorandum of Association and Articles of Association.
CO 3	Analyze the Secretarial duties in issue of Prospectus.
CO 4	Gain knowledge on the concept of share capital.
CO 5	Acquire knowledge about the role of Company Secretary.

Course Name: Allied Course I: BUSINESS ECONOMICS
Course Code: 23UAFAT104

CO 1	Outline the basic concept of Business Economics and Economic Theories.
CO 2	Identify the determinants of the utility and demand analysis.
CO 3	Demonstrate the production analysis and cost decisions making.
CO 4	Assess the market structures and Price discrimination.
CO 5	Explain Macro Economics and National Income.

Course Name: FOUNDATION COURSE – I:Environmental Studies

Course Code: 23ES01

CO 1	Compile different types of ecosystem and its energy flow.
CO 2	Analyze the impacts of Natural resources
CO 3	Apply the concepts of biodiversity and its conservation.
CO 4	Create awareness on disaster management and measures to prevent pollution.
CO 5	Outline the environmental policies and its practices.

SEMESTER-II

Course Name: Financial Accounting-II
Course Code: 23UAGCT201

CO 1	Prepare the accounting statements of consignment.
CO 2	Identify the methods and applications of Depreciation.
CO 3	Apply the system of accounting followed in Hire Purchase system.
CO 4	Analyze accounting treatment required for admission and retirement in partnership firms.
CO 5	Evaluate the accounting procedures involved in dissolution of partnership.

Course Name: Company Law and Secretarial Pratice-II
Course Code: 23UAGCT202

CO 1	Familiar with the provisions relating to Company Management.
CO 2	Acquire knowledge on borrowing powers of board of directors.
CO 3	Know the provisions relating to meeting.
CO 4	Understand the provisions relating to dividend
CO 5	Identify the provisions relating to winding up.

Course Name: CORE-VI COMPUTER PRACTICAL – I
(Office Package
Course Code: 23UAFCP203

CO 1	Acquire Knowledge on text, features, templates and wizard.
CO 2	Demonstrate the Preparation of Financial Statement and Charts by using Ms-Excel.
CO 3	Gain exposure on Presentation of Slides
CO 4	Understand the Preparation of Employee Data Base and Student Data Base.
CO 5	Know about the various Designing Techniques.

Course Name: FOUNDATION COURSE – II: Value Education

Course Code: 23VE01

Identify the values to be adopted in their personal, Professional and social life
Develop personality and social cohesion through various skills inculcated
Construct co-ordinal relationship with the family members
Identify the challenges and uncertainties of the dynamic environment and empowered to confront them with clarity, courage and composure
Buildup social sense and commitment and to discriminate social evils from virtues

DEPARTMENT OF PROFESSIONAL ACCOUNTING

Programme Outcomes for UG Programme:
At the end of the programme, students will be able to

PO Number	PO Statement
PO1	**Critical Thinking:** Take informed actions after identifying the assumption that frame our thinking and actions, checking out the degree to which these assumptions are accurate and valid, and looking at our ideas and decisions (intellectual, organizational, and personal) from different perspectives.
PO2	**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
PO3	**Social Interaction:** Elicit views of others, mediate disagreements and help reach conclusions in group settings.
PO4	**Effective Citizenship:** Demonstrate empathetic social concern and equity centred national development, and the ability to act with an informed awareness of issues and participate in civic life through volunteering.
PO5	**Ethics:** Recognize different value systems including your own, understand the moral dimensions of your decisions, and accept responsibility for them.
PO6	**Environment and Sustainability:** Understand the issues of environmental contexts and sustainable development.
PO7	**Self-directed and Life-long Learning:** Acquire the ability to engage in independent and life-long learning in the broadest context socio technological changes

Programme Specific Outcomes for B.Com(PA)
At the end of the programme, students will be equipped with the Knowledge in

PSO Number	PO Statement
PSO1	Accounting skills with emphasis on application of both quantitative and qualitative aspects.
PSO2	The auditing and reporting.
PSO3	Professional ethics and legal compliance
PSO4	Applying appropriate digital technologies
PSO5	Critical thinking and problem solving in various real life time problems in the field of Commerce

SEMESTER-I
Course Name: Tamil-I
Course Code: 23T01

CO 1	இலக்கியங்கள் காட்டும் வாழ்வியல் விழுமியங்களை அறிந்து கொள்ளல்.
CO 2	புதுக்கவிதைகள் வழி பல்வேறு வகைப்பட்ட கருத்தாக்கங்களைப் புரிதல்.
CO 3	வாழ்வியல் நிகழ்வுகளைப் படைப்பிலக்கியங்கள் வழி அறிதல்.
CO 4	நாட்டுப்பற்று மற்றும் பொதுவுடைமைச் சிந்தனைகளைப் பகுத்தறிதல்.
CO 5	தன்னம்பிக்கைத் திறனை வளர்க்கும் ஆற்றலைப் பெறுதல்.

Course Name: English-I
Course Code: 23E01

CO 1	Develop and integrate the use of the four language skills i.e. Reading, Listening, Speaking and Writing
CO 2	Understand the content and underlying meaning in the context.
CO 3	Form the habit of reading for pleasure and to gather information.
CO 4	Comprehend material other than the prescribed text
CO 5	Develop the linguistic competence that enables the students, to present the cultureand civilization of their nation.

Course Name: Hindi
Paper ICourse Code:
23H01

CO1	Acquire knowledge and understand about various aspects of Hindi Literature
CO2	Analyze the characteristic features of people and evaluate their circumstances
CO3	Write letters for various occasions
CO4	Apply the appropriate grammar forms in communication
CO5	Write expository essays in Hindi on various topics

Course Name: Sanskrit
Paper -I Course Code:
23S01

CO1	Gain introductory knowledge about the Sanskrit Language
CO2	Apply the knowledge gained through our rich cultural heritage
CO3	Acquire various information about Epic Literature
CO4	Develop a better understanding of Sanskrit grammar

CO5	Cultivate the good values among oneself

Course Name: Core :I Financial Accounting -I
Course Code: 23UAGCT101

CO 1	Plan the accounting concepts & procedures and significance of double entry system.
CO 2	Apply the concept of book keeping and rectification of errors.
CO 3	Assess the Bank reconciliation statement and apply how to resolve difference between cash book and pass book in a systematic manner
CO 4	Analyze the technique of accounting relating to accommodation bills and its special treatment.
CO 5	Evaluate the calculation procedure involved in the preparation of financial statements.

Course Name: Core II :Office Automation
Course Code: 23UAGCT102

CO 1	Outline the basic concepts of Computer and *working Methodology of MS word.*
CO 2	Apply the formula for entering in worksheet.
CO 3	Demonstrate the Power point Presentation
CO 4	Prepare about MS Access.
CO 5	Outline the basic concepts of ERP.

Course Name: Core III :Mercantile Law
Course Code: 23UAGCT103

CO 1	Familiar with General Principles of Law of Contract.
CO 2	Learn the basic concept of performance and Discharge of Contract.
CO 3	Understand the contract of Indemnity and Guarantee.
CO 4	Acquire knowledge on Contract of Agency.
CO 5	Gain exposure on Sale of Goods Act.

Course Name: ALLIED-I BUSINESS MATHEMATICS

Course Code: 23UAGAT104

CO 1	Recall the set theory Concepts and understand the concepts of Arithmetic
CO 2	Know the basic Concepts of financial mathematics
CO 3	Understand and apply the matrix concepts and operations
CO 4	To gain knowledge on different on differential and integral calculus
CO 5	Analyze the LPP using graphical and simplex methods.

Course Name: FOUNDATION COURSE – I:Environmental Studies

Course Code: 23ES01

CO 1	Compile different types of ecosystem and its energy flow.
CO 2	Analyze the impacts of Natural resources
CO 3	Apply the concepts of biodiversity and its conservation.
CO 4	Create awareness on disaster management and measures to prevent pollution.
CO 5	Outline the environmental policies and its practices.

Course Name: Financial Accounting-II
Course Code: 23UAGCT201

CO 1	Prepare the accounting statements of consignment.
CO 2	Identify the methods and applications of Depreciation.
CO 3	Apply the system of accounting followed in Hire Purchase system.
CO 4	Analyze accounting treatment required for admission and retirement in partnership firms.
CO 5	Evaluate the accounting procedures involved in dissolution of partnership.

Course Name: Principles of Auditing
Course Code: 23UAGCT202

CO 1	Articulate knowledge of fundamental audit concepts
CO 2	Comprehend the knowledge about Audit Planning and Audit programme
CO 3	Demonstrate the knowledge about vouching of cash and credit transactions
CO 4	Understand the concepts of Verification and Valuation of Assets and Liabilities.
CO 5	Outline the different types of Audit Reports.

Course Name: CORE VI:
COMPUTER PRACTICAL-I   (OFFICE PACKAGE)

Course Code: 23UAGCP203

CO 1	Apply knowledge on text alignment and preparation of bio-data.
CO 2	Assess with the preparation of Financial Statement and charts by using Ms-Excel.
CO 3	Demonstrate about the presentation of slides.
CO 4	Identify the preparation of employee data base and student data base.
CO 5	Design Business card and Broucher using Ms-Publisher.

KONGU ARTS AND SCIENCE COLLEGE

(AUTONOMOUS)

Nanjanapuram, Erode - 638 107

DEPARTMENT OF COMMERCE (BANKING AND INSURANCE)

Programme Outcomes for UG Programme:
At the end of the programme, students will be able to

PO Number	PO Statement
PO1	**Critical Thinking:** Take informed actions after identifying the assumptions that frame our thinking and actions, checking out the degree to which these assumptions are accurate and valid, and looking at our ideas and decisions (intellectual, organizational, and personal) from different perspectives.
PO2	**Effective Communication:** Speak, read, write and listen clearly in person and through electronic media in English and in any one Indian language and make meaning of the world by connecting people, ideas, books, media and technology.
PO3	**Social Interaction:** Elicit views of others, mediate disagreements and help to reach conclusions in group settings.
PO4	**Effective Citizenship:** Demonstrate empathetic social concern and equity centered national development, and the ability to act with an informed awareness of issues and participate in civic life through volunteering.
PO5	**Ethics:** Recognize different value systems including your own, understand the moral dimensions of your decisions, and accept responsibility for them.
PO6	**Environment and Sustainability:** Understand the issues of environmental contexts and sustainable development.
PO7	**Self-directed and Life-long Learning:** Acquire the ability to engage in independent and life-long learning in the broadest context socio-technological changes.

Programme Specific Outcomes:
At the end of the programme, students are expected to

PSO Number	PSO Statement
PSO1	To take up a higher level job in banking and insurance sector
PSO2	Get thorough knowledge in the services offered by Banks and Insurance sector
PSO3	Practical exposure in the banking and insurance field helps them to take up a challenging jobs
PSO4	Able to act as a consultant in the areas of banking and insurance
PSO5	Pursue higher education with either Banking or Insurance as specialization

SEMESTER: I

Course Outcomes (CO): On completion of the course, students should be able to

Course Name: PART – I TAMIL - I

Course Code: 23T01

CO1	இலக்கியங்கள் காட்டும் வாழ்வியல் விழுமியங்களை அறிந்து கொள்ளல்.
CO2	புதுக்கவிதைகள் வழி பல்வேறு வகைப்பட்ட கருத்தாக்கங்களைப் புரிதல்.
CO3	வாழ்வியல் நிகழ்வுகளைப் படைப்பிலக்கியங்கள் வழி அறிதல்.
CO4	நாட்டுப்பற்று மற்றும் பொதுவுடைமைச் சிந்தனைகளைப் பகுத்தறிதல்.
CO5	தன்னம்பிக்கைத் திறனை வளர்க்கும் ஆற்றலைப் பெறுதல்.

Course Name: PART – II ENGLISH - I

Course Code: 23E01

CO1	Develop and integrate the use of the four language skills i.e. Reading, Listening, Speaking and Writing
CO2	Understand the content and underlying meaning in the context.
CO3	Form the habit of reading for pleasure and to gather information.
CO4	Comprehend material other than the prescribed text
CO5	Develop the linguistic competence that enables the students, to present the culture and civilization of their nation.

Course Name: CORE PAPER I: FINANCIAL ACCOUNTING - I

Course Code: 23UAICT101

CO1	Plan the accounting concepts and procedures and significance of double entry system.
CO2	Apply the concept of book keeping and rectification of errors.
CO3	Assess the Bank reconciliation statement and apply how to resolve difference between cash book and pass book in a systematic manner
CO4	Analyze the technique of accounting relating to accommodation bills and its special treatment.
CO5	Evaluate the calculation procedure involved in the preparation of financial statements.

Course Name: CORE PAPER II: INDIAN BANKING SYSTEM
Course Code: 23UAICT102

CO1	Compile the Evolution of banking.
CO2	Outline the role of central banks and its policy framework.
CO3	Apply the methods of charging secure and unsecured advances.
CO4	Analyze the features of Indian Financial Network and its factors.
CO5	Evaluate the recent trends in Indian Banking.

Course Name: CORE PAPER III: OFFICE MANAGEMENT
Course Code: 23UAICT103

CO1	Familiarized with modern office management.
CO2	Adapt with the modern work atmosphere
CO3	Trained in maintaining the office independently and effectively.
CO4	Ability to organize data records in office
CO5	Motivated to act as a company secretary

Course Name: ALLIED I: BUSINESS MATHEMATICS
Course Code: 23UAIAT104

CO1	Recall the set theory concepts and understand the concepts of Arithmetic and geometric series.
CO2	Know the basic concepts of financial mathematics.
CO3	Understand and apply the matrix concepts and operations.
CO4	To gain knowledge on differential and integral calculus.
CO5	Analyze the LPP using graphical and simplex methods.

Course Name: FOUNDATION COURSE I: ENVIRONMENTAL STUDIES
Course Code: 23ES01

CO1	Compile different types of ecosystem and its energy flow.
CO2	Analyze the impacts of Natural resources
CO3	Apply the concepts of biodiversity and its conservation.
CO4	Create awareness on disaster management and measures to prevent pollution.
CO5	Outline the environmental policies and its practices.

SEMESTER: II
Course Outcomes (CO): On completion of the course, students should be able to
Course Name: Core IV- FINANCIAL ACCOUNTING - II
Course Code: 23UAICT201

CO 1	Prepare the accounting statements of consignment.
CO 2	Identify the methods and applications of Depreciation.
CO 3	Apply the system of accounting followed in Hire Purchase system.
CO 4	Analyze accounting treatment required for admission and retirement in partnership firms.
CO 5	Evaluate the accounting procedures involved in dissolution of partnership.

Course Name: Core –V- FUNDAMENTALS OF INSURANCE
Course Code: 23UAICT202

CO 1	Outline the nature and principles of insurance.
CO 2	*Paraphrase the insurance laws and regulations and contract act.*
CO 3	Apply *the* procedures, code of conduct and unfair practices.
CO 4	Analyze the fundamental principles of insurance.
CO 5	Evaluate the applications of life insurance products.

Course Name: Core VI - BUSINESS MANAGEMENT
Course Code: 23UAICT203

CO 1	On successful completion of the paper students will be able to understand about organization structure and its process.
CO 2	araphrase the importance of planning and decision making in an organization.
CO 3	Comprehend the concept of various authorizes and responsibilities of an organization
CO 4	Enumerate the various methods of Performance appraisal
CO 5	emonstrate the notion of directing, co-coordination and control in the management.

Course Name: Foundation Course – II: Value Educations
Course Code: 23VEOT01

CO 1	Identify the values to be adopted in their personal, Professional and social life.
CO 2	Develop personality and social cohesion through various skills inculcated.
CO 3	Construct co-ordinal relationship with the family members.

CO 4	Identify the challenges and uncertainties of the dynamic environment and empowered to confront them with clarity, courage and composure.
CO 5	Buildup social sense and commitment and to discriminate social evils from virtues.

DEPARTMENT OF BUSINESS ADMINISTRATION

Programme Outcomes for UG Programme:
At the end of the programme, students will be able to

PO Number	PO Statement
PO1	**Critical Thinking:** Take informed actions after identifying the assumptions that frame our thinking and actions, checking out the degree to which these assumptions are accurate and valid, and looking at our ideas and decisions (intellectual, organizational and personal) from different perspectives.
PO2	**Effective Communication:** Speak, read, write and listen clearly in person and through electronic media in English and in any one Indian language, and make meaning of the world by connecting people, ideas, books, media and technology.
PO3	**Social Interaction:** Elicit views of others, mediate disagreements and help to reach conclusions in group settings.
PO4	**Effective Citizenship:** Demonstrate empathetic social concern and equity centered national development, and the ability to act with an informed awareness of issue and participate in civic life through volunteering.
PO5	**Ethics:** Recognize different value systems including your own, understand the moral dimensions of your decisions, and accept responsibility for them.
PO6	**Environment and Sustainability:** Understand the issues of environmental contexts and sustainable development.
PO7	**Self-directed and Life-long Learning:** Acquire the ability to engage in independent and life-long learning in the broadest context of socio-technological changes.

Programme Specific Outcomes:
At the end of the programme, students will be equipped with the knowledge to

PSO Number	PSO Statement
PSO1	Develop entrepreneurial skill to motivate towards start-ups.
PSO2	Determine conceptual and analytical abilities required for effective decision-making.
PSO3	Understand the dynamic and complex working environment of business.
PSO4	Process information for the efficient performance in management functions.
PSO5	Facilitate growing challenges in the field of entrepreneurship with viable, ethically correct and socially acceptable solutions.

Course Outcomes (CO): On completion of the course, students should be able to
Course Name: TAMIL-I
Course Code: 23T01

CO1	இலக்கியங்கள் காட்டும் வாழ்வியல் விழுமியங்களை அறிந்து கொள்ளல்.	
CO2	புதுக்கவிதைகள் வழி பல்வேறு வகைப்பட்ட கருத்தாக்கங்களைப் புரிதல்.	
CO3	வாழ்வியல் நிகழ்வுகளைப் படைப்பிலக்கியங்கள் வழி அறிதல்.	
CO4	நாட்டுப்பற்று மற்றும் பொதுவுடைமைச் சிந்தனைகளைப் பகுத்தறிதல்.	
CO5	தன்னம்பிக்கைத் திறனை வளர்க்கும் ஆற்றலைப் பெறுதல்.	

Course Name: HINDI-I
Course Code: 23H01

CO1	Acquire knowledge and understand about various aspects of Hindi Literature.
CO2	Analyze the characteristic features of people and evaluate their circumstances.
CO3	Write letters for various occasions.
CO4	Apply the appropriate grammar forms in communication.
CO5	Write expository essays in Hindi on various topics

Course Name: FRENCH-I
Course Code: 23F01

CO1	Possess a basic knowledge of Self-introduction
CO2	Learn to interrogate
CO3	Acquire some basic knowledge of Adjectives
CO4	Express how to go and return
CO5	Enquire about few things

Course Name: ENGLISH-I
Course Code: 23E01

CO1	Develop and integrate the use of the four language skills i.e. Reading, Listening, Speaking and Writing
CO2	Understand the content and underlying meaning in the context.
CO3	Form the habit of reading for pleasure and to gather information.
CO4	Comprehend material other than the prescribed text
CO5	Develop the linguistic competence that enables the students, to present the culture and civilization of their nation.

Course Name: CORE PAPER I: PRINCIPLES OF MANAGEMENT
Course Code: 23UABCT101

CO1	Understand the concepts related to management principles, functions, roles and recent developments in management.
CO2	Develop business plans and decision - making skill that support an organization's strategic objectives.
CO3	Know the various organization structures, authority, responsibility, accountability and delegation with respect to management.
CO4	Acquire knowledge in human resource planning and directing and learn the techniques of co-ordination.
CO5	Able to apply principles of management tools and control techniques in an enterprise.

Course Name: CORE PAPER II: BUSINESS COMMUNICATION
Course Code: 23UABCT102

CO1	Identify the importance of communication to gain a general understanding of communication process, and to overcome barriers in communication
CO2	Gain knowledge on letter writing
CO3	Demonstrate the critical thinking skills to produce successful agenda and minutes in any given context or situation.
CO4	Associate the fundamentals of the report writing process and to produce effective reports characterized by using creative charts, tables and diagrams.
CO5	Able to understand the internal communication process in business organisations.

Course Name: CORE PAPER III: COMMUNICATIVE SKILLS-I -VIVA-VOCE
Course Code: 23UABCV103

CO1	Remember the core contents of any communication.
CO2	Understand the process of communication.
CO3	Able to understand and speak well in any situation.
CO4	Demonstrate a good command in responding to any queries.
CO5	Achieve the desired result of a good communication.

Course Name: ALLIED COURSE-I: MATHEMATICS FOR MANAGERS-I
Course Code: 23UABAT104

CO1	Calculate simple and compound interest and understand the concepts of sets and its operations.
CO2	Find the solutions of simultaneous linear equations using matrix method.
CO3	Understand and apply classification and tabulation of data.
CO4	Acquire knowledge about the measures of central tendency and dispersion.
CO5	Examine the concepts of Correlation, Regression and index number.

Course Name: FOUNDATION COURSE-I: ENVIRONMENTAL STUDIES
Course Code: 23ES01

CO1	Compile different types of ecosystem and its energy flow.
CO2	Analyze the impacts of Natural resources.
CO3	Apply the concepts of biodiversity and its conservation.

CO4	Create awareness on disaster management and measures to prevent pollution.
CO5	Outline the environmental policies and its practices.

SEMESTER: II
Course Outcomes (CO): On completion of the course, students should be able to
Course Name: TAMIL-II
Course Code: 23T02

CO1	அறஇலக்கியங்கள்வாயிலாகவாழ்வியல் விழுமியங்களைஅறிதல்.
CO2	சமயப்பாடல்கள் வழி பல்சமயக் கோட்பாடுகளைப் பகுத்தறிதல்.
CO3	படைப்பிலக்கியங்கள் கொண்டுபழந்தமிழர் வரலாற்றைஉணர்தல்.
CO4	மதநல்லிணக்கத்தைப் புரிந்துகொள்ளல்.
CO5	படைப்பாற்றல் திறனைவளர்த்துக்கொள்ளுதல்.

Course Name: HINDI-II
Course Code: 23H02

CO1	Acquire knowledge about great Indian personalities.
CO2	Inculcate the cultural values in life.
CO3	Asses the Teacher-Student relationship and education.
CO4	Apply grammatical knowledge in Advanced level.
CO5	Develop and write short stories in Hindi.

Course Name: FRENCH-II
Course Code: 23F02

CO1	Possess a sound knowledge of some of the Itinerary.
CO2	Ask about way.
CO3	Request about anything and its price in the market/restaurant.
CO4	Ask about anything and give information.
CO5	Invite guest and visit an apartment.

Course Name: ENGLISH-II
Course Code: 23E02

CO1	To introduce learners to the essential skills of communication in English
CO2	To enable them use these skills effectively in academic and non-academic contexts.
CO3	To help them identify and eliminate common mistakes in writing and speaking.
CO4	To enable them use various business communication strategies and to use advanced vocabulary.
CO5	To familiarize them in writing descriptive essays and respond to arguments orally and in writing.

Course Name: CORE PAPER IV: ORGANISATIONAL BEHAVIOUR
Course Code: 23UABCT201

CO1	Analyze the behaviour of individuals in organizations in terms of the key factors that influence organizational behaviour.
CO2	Gain knowledge on perception, attitude and emotional intelligence.

CO3	Equip with the required skills of motivation and morale.
CO4	Acquire knowledge on group behaviour and conflict and evaluate the organizational culture and the implementation of change.
CO5	Possess the skills to design an efficient management system in an organization.

Course Name: CORE PAPER V: FINANCIAL ACCOUNTING
Course Code: 23UABCT202

CO1	Understand the basic concepts and importance of accounting.
CO2	Acquire skills to prepare journal, Ledger and Trial balance.
CO3	Prepare the Subsidiary Book of a company.
CO4	Ascertain the financial position of organization with the help of Final Accounts.
CO5	Learn about the Partnership and maintaining of partnership accounts.

Course Name: CORE PAPER VI: COMMUNICATIVE SKILLS-II -VIVA-VOCE
Course Code: 23UABCV203

CO1	Remember the core contents of any communication.
CO2	Understand the importance of good written communication.
CO3	Able to draft and write any type of documents.
CO4	Demonstrate a good command in responding to any queries.
CO5	Achieve the desired result of a good communication.

Course Name: ALLIED COURSE-II: MATHEMATICS FOR MANAGERS-II
Course Code: 23UABAT204

CO1	Understand the concepts of Linear Programming Problems and its Solution by Graphical Method.
CO2	Find the Solutions for Transportation and Assignment Problems.
CO3	Solve Games by using Pure and Mixed Strategies and also find Graphical Solutions of Game theory.
CO4	Acquire knowledge in the concepts of Critical Path Method (CPM).
CO5	Examine the factors in Project Evaluation and Review Techniques (PERT).

Course Name: FOUNDATION COURSE-II: VALUE EDUCATION
Course Code: 23VE01

CO1	Identify the values to be adopted in their personal, Professional and social life.
CO2	Develop personality and social cohesion through various skills inculcated.
CO3	Construct co-ordinal relationship with the family members.
CO4	Identify the challenges and uncertainties of the dynamic environment and empowered to confront them with clarity, courage and composure.
CO5	Buildup social sense and commitment and to discriminate social evils from virtues.

DEPARTMENT OF BUSINESS ADMINISTRATION (COMPUTER APPLICATIONS)

BBA (CA)

Programme Outcomes:

At the end of the programme the students will be able to

PO Number	PO Statement
PO1	**Critical Thinking:** Take informed actions after identifying the assumptions that frame our thinking and actions, checking out the degree to which these assumptions are accurate and valid, and looking at our ideas and decisions (intellectual, organizational and personal) from different perspectives.
PO2	**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.
PO3	**Social Interaction:** Elicit views of others, mediate disagreements and help to reach conclusions in group settings.
PO4	**Effective Citizenship:** Demonstrate empathetic social concern and equity centered national development, and the ability to act with an informed awareness of issue and participate in civic life through volunteering.
PO5	**Ethics:** Recognize different value systems including your own, understand the moral dimensions of your decisions and accept responsibility for them.
PO6	**Environment and Sustainability:** Understand the issues of environmental contexts and sustainable development.
PO7	**Self-directed and Life-long Learning:** Acquire the ability to engage in independent and life-long learning in the broadest context socio-technological changes.

Programme Specific Outcomes:

After the successful completion of BBA (CA) programme, students will be equipped with the knowledge in

PSO Number	PSO Statement
PSO1	The field of business and administration.
PSO2	Communicate effectively on business management activities with the business community.
PSO3	Managing employees, organizational information and administration systems through the effective use of information technology.
PSO4	The field of current information technology to support business decision-making.
PSO5	Design and develop business-based computer applications.

SEMESTER: I

Course Outcomes (CO): On completion of the course, students should be able to

Course Name: TAMIL – I

Course Code: 23T01

CO 1	இலக்கியங்கள் காட்டும் வாழ்வியல் விழுமியங்களை அறிந்து கொள்ளல்.
CO 2	புதுக்கவிதைகள் வழி பல்வேறு வகைப்பட்ட கருத்தாக்கங்களைப் புரிதல்.
CO 3	வாழ்வியல் நிகழ்வுகளைப் படைப்பிலக்கியங்கள் வழி அறிதல்.
CO 4	நாட்டுப்பற்று மற்றும் பொதுவுடைமைச் சிந்தனைகளைப் பகுத்தறிதல்.
CO 5	தன்னம்பிக்கைத் திறனை வளர்க்கும் ஆற்றலைப் பெறுதல்.

Course Name: FRENCH – I

Course Code: 23F01

CO1	Possess a basic knowledge of Self-introduction
CO2	Learn to interrogate
CO3	Acquire some basic knowledge of Adjectives
CO4	Express how to go and return
CO5	Enquire about few things

Course Name: ENGLISH- I

Course Code: 23E01

CO1	Develop and integrate the use of the four language skills i.e. Reading, Listening, Speaking and Writing
CO2	Understand the content and underlying meaning in the context.
CO3	Form the habit of reading for pleasure and to gather information.
CO4	Comprehend material other than the prescribed text .
CO5	Develop the linguistic competence that enables the students, to present the culture and civilization of their nation.

Course Name: Core - I -PRINCIPLES OF MANAGEMENT

Course Code: 23UACCT101

CO1	Understand the concepts related to management principles, functions, roles and recent developments in management.
CO2	Develop business plans and decision-making skill that support an organization's strategic objectives.
CO3	Know the various organization structures, authority, responsibility, accountability and delegation with respect to management
CO4	Acquire knowledge in human resource planning and directing and learn the techniques of co-ordination.
CO5	Able to apply principles of management tools and control techniques in an enterprise

Course Name: Core -II: BUSINESS COMMUNICATION

Course Code: 23UACCT102

CO1	Identify the importance of communication to gain a general understanding of communication process, and to overcome barriers in communication.
CO2	Gain knowledge on letter writing.
CO3	Demonstrate the critical thinking skills to produce successful agenda and minutes in any given context or situation.
CO4	Associate the fundamentals of the report writing process and to produce effective reports characterized by using creative charts, tables and diagrams.
CO5	Able to understand the internal communication process in business organisations.

Course Name: Core-III: INTRODUCTIONTOINFORMATIONTECHNOLOGY

Course Code: 23UACCT103

CO1	Recall the basic concepts of information technology.
CO2	Contrast the information systems and data base management systems.
CO3	Integrate the banking technology applications and management.
CO4	Appraise the payment techniques of e-commerce.
CO5	Analyze the information system security controls.

COURSE NAME: ALLIED –I-MATHEMATICS FOR MANAGERS-I

COURSE CODE: 23UACAT104

CO1	Calculate simple and compound interest and understand the concepts of sets and its operations.
CO2	Find the solutions of simultaneous linear equations using matrix method.
CO3	Understand and apply classification and tabulation of data.
CO4	Acquire knowledge about the measures of central tendency and dispersion.
CO5	Examine the concepts of Correlation, Regression and index number.

Course Name: Foundation Course I- Environmental Studies

Course Code: 23ES01

CO1	Compile different types of ecosystems and its energy flow.
CO2	Analyze the impacts of natural resources.
CO3	Apply the concepts of biodiversity and its conservation.
CO4	Create awareness on disaster management and measures to prevent pollution.
CO5	Outline the environmental policies and its practices.

SEMESTER: II

Course Outcomes (CO): On completion of the course, students should be able to

Course Name: TAMIL – II

Course Code: 23T02

CO 1	அறஇலக்கியங்கள்வாயிலாகவாழ்வியல் விழுமியங்களைஅறிதல்.
CO 2	சமயப்பாடல்கள் வழி பல்சமயக் கோட்பாடுகளைப் பகுத்தறிதல்.
CO 3	படைப்பிலக்கியங்கள் கொண்டுபழந்தமிழர் வரலாற்றைஉணர்தல்.
CO 4	மதநல்லிணக்கத்தைப் புரிந்துகொள்ளல்.
CO 5	படைப்பாற்றல் திறனைவளர்த்துக்கொள்ளுதல்.

Course Name: FRENCH – II

Course Code: 23F02

CO1	Possess a sound knowledge on pronoun, adjective and Civilization (Holidays and Sales)
CO2	Understand the Pronominal verbs needed for Itinerary
CO3	Gain knowledge about civilization through French Television Channels
CO4	Describe about the Climate of France
CO5	Express their point of view about the daily routine of French People

Course Name: ENGLISH- II

Course Code: 23E02

CO1	To introduce learners to the essential skills of communication in English
CO2	To enable them use these skills effectively in academic and non-academic contexts.
CO3	To help them identify and eliminate common mistakes in writing and speaking.
CO4	To enable them use various business communication strategies and to use
CO5	To familiarize them in writing descriptive essays and respond to arguments orally and in writing.

Course Name: Core IV: ORGANISATIONAL BEHAVIOUR

Course Code: 23UACCT201

CO1	Analyze the behaviour of individuals in organizations in terms of the key factors that influence organizational behaviour.
CO2	Gain knowledge on perception, attitude and emotional intelligence.
CO3	Equip with the required skills of motivation and morale.
CO4	Acquire knowledge on group behaviour and conflict and evaluate the organizational culture and the implementation of change.
CO5	Possess the skills to design an efficient management system in an organization.

Course Name: Core V: FINANCIAL ACCOUNTING

Course Code: 23UACCT202

CO1	Understand the basic concepts and importance of accounting.
CO2	Acquire skills to prepare journal, ledger and trial balance.
CO3	Prepare the subsidiary book of a company.
CO4	Ascertain the financial position of organization with the help of final accounts.
CO5	Learn about the partnership and maintaining of partnership accounts.

Course Name: Core VI: PC SOFTWARE (MS OFFICE) PRACTICAL

Course Code: 23UACCP203

CO1	Prepare various kinds of documents.
CO2	Develop the data analytical skills in spreadsheets.
CO3	Create Power Point presentations and slideshows.
CO4	Comprehend database in MS Access and prepare reports.
CO5	Prepare various kinds of documents.

COURSE NAME: ALLIED –I-MATHEMATICS FOR MANAGERS-II

COURSE CODE: 23UACAT204

CO1	Understand the concepts of Linear Programming Problems and its Solution by Graphical Method
CO2	Find the Solutions for Transportation and Assignment Problems
CO3	Solve Games by using Pure and Mixed Strategies and also find Graphical Solutions of Game theory
CO4	Acquire knowledge in the concepts of Critical Path Method (CPM)
CO5	Examine the factors in Project Evaluation and Review Techniques (PERT).

Course Name: Foundation Course II- Value Education

Course Code: 23VE01

CO1	Identify the values to be adopted in their personal, professional and social life.
CO2	Develop personality and social cohesion through various skills inculcated.
CO3	Construct co-ordinal relationship with the family members.
CO4	Identify the challenges and uncertainties of the dynamic environment and empowered to confront them with clarity, courage and composure.
CO5	Buildup social sense and commitment and to discriminate social evils from virtues.

DEPARTMENT OF COMPUTER APPLICATIONS
Programme Outcomes for UG Programme: B.C.A.
At the end of the programme, students will be able to

PO Number	PO Statement
PO1	**Critical Thinking:** Take informed actions after identifying the assumptions that frame our thinking and actions, checking out the degree to which these assumptions are accurate and valid, and looking at our ideas and decisions (intellectual, organizational and personal) from different perspectives.
PO2	**Effective Communication:** Speak, read, write and listen clearly in person and through electronic media in English and in any one Indian language, and make meaning of the world by connecting people, ideas, books, media and technology.
PO3	**Social Interaction:** Elicit views of others, mediate disagreements and help to reach conclusions in group settings.
PO4	**Effective Citizenship:** Demonstrate empathetic social concern and equity centered national development, and the ability to act with an informed awareness of issue and participate in civic life through volunteering.
PO5	**Ethics:** Recognize different value systems including your own, understand the moral dimensions of your decisions, and accept responsibility for them.
PO6	**Environment and Sustainability:** Understand the issues of environmental contexts and sustainable development.
PO7	**Self-directed and Life-long Learning:** Acquire the ability to engage in independent and life-long learning in the broadest context of socio-technological changes.

Programme Specific Outcomes:
At the end of the programme, students will be equipped with the Knowledge of

PSO Number	PSO Statement
PSO1	Apply mathematical, computing and domain knowledge for the conceptualization of computing models to provide solutions.
PSO2	Appraise, analyze and develop software products of varying complexity in diverse domains of computer applications.
PSO3	Apply the acquired knowledge to thrive for a better career or higher studies.
PSO4	Experiment with the challenges of changing trends and opportunities emerging in local and global industries.
PSO5	Apply and entrust ethics and cyber regulations in their career and professional practice.

Course Outcomes (CO): On completion of the course, students should be able to
Course Name: PART I: TAMIL - I
Course Code: 23T01

CO1	இலக்கியங்கள் காட்டும் வாழ்வியல் விழுமியங்களை அறிந்து கொள்ளல்.
CO2	புதுக்கவிதைகள் வழி பல்வேறு வகைப்பட்ட கருத்தாக்கங்களைப் புரிதல்.
CO3	வாழ்வியல் நிகழ்வுகளைப் படைப்பிலக்கியங்கள் வழி அறிதல்.
CO4	நாட்டுப்பற்று மற்றும் பொதுவுடைமைச் சிந்தனைகளைப் பகுத்தறிதல்.
CO5	தன்னம்பிக்கைத் திறனை வளர்க்கும் ஆற்றலைப் பெறுதல்.

Course Name: PART II: ENGLISH I
Course Code: 23E01

CO1	Develop and integrate the use of the four language skills i.e. Reading, Listening, Speaking and Writing.
CO2	Understand the content and underlying meaning in the context.
CO3	Form the habit of reading for pleasure and to gather information.
CO4	Comprehend material other than the prescribed text.
CO5	Develop the linguistic competence that enables the students, to present the culture and civilization of their nation.

Course Name: Core I: C PROGRAMMING
Course Code: 23UAJCT101

CO1	Define data types and use them in simple data processing applications.
CO2	Build simple C Programs using Looping and Control Structures.
CO3	Apply the right data representation formats based on the requirements of the problem.
CO4	Demonstrate the concept of User defined functions, Recursions, Scope and Lifetime of Variables, Structures and Unions.
CO5	Develop C programs using pointers and files.

Course Name: CORE II: DIGITAL FUNDAMENTALS AND COMPUTER ARCHITECTURE
Course Code: 23UAJCT102

CO1	Identify, understand and apply different number systems and codes.
CO2	Experiment with various types of gates and solve boolean algebraic expression.
CO3	Apply and design different arithmetic circuits.
CO4	Compare and analyze the working of I/O devices.
CO5	Inspect various memory organizations.

Course Name: Core Practical I: C Programming
Course Code: 23UAJCP103

CO1	Develop the program, write it on a computer, edit, compile, debug, correct, recompile and run it.
CO2	Identify tasks in which the techniques learned are applicable and apply them to write programs, and hence use computers effectively to solve the task.
CO3	Choose the right data representation formats based on the requirements of the problem; define and manage them based on problem domain.
CO4	Compare the various control and looping structures and other programming constructs and choose, the right one for the task in hand.
CO5	Implement the pointer and file handling Operations.

Course Name: ALLIED COURSE–I: NUMERICAL AND STATISTICAL METHODS
Course Code: 23UAJAT104

CO1	Solve Linear algebraic equations.
CO2	Apply Newton's Interpolation Formulae.
CO3	Calculate Measures of Central Tendency and Dispersion.
CO4	To gain Knowledge in Correlation.
CO5	Analyse the Problems using Regression.

Course Name: FOUNDATION COURSE – I: ENVIRONMENTAL STUDIES
Course Code: 23ES01

CO1	Compile different types of ecosystem and its energy flow.
CO2	Analyze the impacts of Natural resources.
CO3	Apply the concepts of biodiversity and its conservation.
CO4	Create awareness on disaster management and measures to prevent pollution.
CO5	Outline the environmental policies and its practices.

Course Outcomes (CO): On completion of the course, students should be able to
Course Name: PART I: TAMIL - II
Course Code: 23T02

CO1	அறஇலக்கியங்கள்வாயிலாகவாழ்வியல் விழுமியங்களைஅறிதல்.
CO2	சமயப்பாடல்கள் வழி பல்சமயக் கோட்பாடுகளைப் பகுத்தறிதல்.
CO3	படைப்பிலக்கியங்கள் கொண்டுபழந்தமிழர் வரலாற்றைஉணர்தல்.
CO4	மதநல்லிணக்கத்தைப் புரிந்துகொள்ளல்.
CO5	படைப்பாற்றல் திறனைவளர்த்துக்கொள்ளுதல்.

Course Name: PART II: ENGLISH II
Course Code: 23E02

CO1	To introduce learners to the essential skills of communication in English
CO2	To enable them use these skills effectively in academic and non-academic contexts.
CO3	To help them identify and eliminate common mistakes in writing and speaking.
CO4	To enable them use various business communication strategies and to use advanced vocabulary.
CO5	To familiarize them in writing descriptive essays and respond to arguments orally and in writing.

Course Name: Core III: C++ Programming
Course Code: 23UAWCT201

CO1	Define the different programming paradigm such as procedure oriented and object oriented programming methodology and conceptualize elements of OO methodology.
CO2	Illustrate and model real world objects and map it into programming objects for a legacy system.
CO3	Identify the concepts of Operator overloading features.
CO4	Discover the usage of inheritance.
CO5	Explain the usage of Files, templates and understand the importance of exception Handling.

Course Name: Core IV: Data Structures
Course Code: 23UAWCT202

CO1	Identify the needs of the data structure, Problem solving strategies and Algorithms.

CO2	Recognize problem properties where stacks, queues, and deques are appropriate data structures.
CO3	Categorize the types of linked list and its representations.
CO4	Implement the tree and graph representations for non-linear data structures.
CO5	Rate various searching and sorting methods.

Course Name: Core Practical II: Programming Lab - C++
Course Code: 23UAWCP203

CO1	Define the different programming paradigm such as procedure oriented and object oriented programming methodology and conceptualize elements of OO methodology.
CO2	Illustrate and model real world objects and map it into programming objects for a legacy system.
CO3	Identify the concepts of Operator overloading features.
CO4	Discover the usage of inheritance.
CO5	Explain the usage of Files, templates and understand the importance of exception Handling.

Course Name: ALLIED II: DISCRETE MATHEMATICS
Course Code: 23UAJAT204

CO1	Know about Connectives & Well-formed Formulas.
CO2	Attain knowledge about Normal Forms and Predicate Calculus.
CO3	Solve the real time problems on Relations.
CO4	Acquire knowledge on Functions and Grammars.
CO5	Compare the characteristics Lattices .

Course Name: Foundation Course – II: Value Education
Course Code: 23VE01

CO1	Identify the values to be adopted in their personal, Professional and social life.
CO2	Develop personality and social cohesion through various skills inculcated.
CO3	Construct co-ordinal relationship with the family members.
CO4	Identify the challenges and uncertainties of the dynamic environment and empowered to confront them with clarity, courage and composure.
CO5	Buildup social sense and commitment and to discriminate social evils from virtues.

DEPARTMENT OF COMPUTER SCIENCE (UG)

Programme Outcomes for UG Programme: B.Sc Computer Science(UG)
At the end of the programme, students will be able to

PO Number	PO Statement
PO1	**Critical Thinking:** Take informed actions after identifying the assumptions that frame our thinking and actions, checking out the degree to which these assumptions are accurate and valid, and looking at our ideas and decisions (intellectual, organizational and personal) from different perspectives.
PO2	**Effective Communication:** Speak, read, write and listen clearly in person and through electronic media in English and in one Indian language, and making meaning of the world by connecting people, ideas, books, media and technology.
PO3	**Social Interaction:** Elicit views of others, mediate disagreements and help reach conclusions in group settings.
PO4	**Effective Citizenship:** Demonstrate empathetic social concern and equity centred national development, and the ability to act with an informed awareness of issues and participate in civic life through volunteering.
PO5	**Ethics:** Recognize different value systems including your own, understand the moral dimensions of your decisions, and accept responsibility for them.
PO6	**Environment and Sustainability:** Understand the issues of environmental contexts and sustainable development.
PO7	**Self-directed and Life-long Learning:** Acquire the ability to engage in independent and life-long learning in the broadest context socio-technological changes.

Programme Specific Outcomes:
At the end of the programme, students will be able to:

PSO Number	PSO Statement
PSO1	Apply the fundamental principles and methods of Mathematics and Computer Science to a wide range of applications.
PSO2	Design, implement, and evaluate a computational system to meet desired needs in various domains.
PSO3	Use current computing technologies and methods for the design and implementation of solutions in industry.
PSO4	Practice continuous learning to maintain and achieve professional and personal excellence.
PSO5	Apply the contextual knowledge of Information Technology to function efficiently as an individual or a leader in multi disciplinary environments.

SEMESTER: I

Course Outcomes (CO): On completion of the course, students should be able to
Course Name: TAMIL – I
Course Code: 23T01

CO1	இலக்கியங்கள் காட்டும் வாழ்வியல் விழுமியங்களை அறிந்து கொள்ளல்.
CO2	புதுக்கவிதைகள் வழி பல்வேறு வகைப்பட்ட கருத்தாக்கங்களைப் புரிதல்.
CO3	வாழ்வியல் நிகழ்வுகளைப் படைப்பிலக்கியங்கள் வழி அறிதல்.
CO4	நாட்டுப்பற்று மற்றும் பொதுவுடைமைச் சிந்தனைகளைப் பகுத்தறிதல்.
CO5	தன்னம்பிக்கைத் திறனை வளர்க்கும் ஆற்றலைப் பெறுதல்.

Course Name: SANSKRIT PAPER I
Course Code: 23S01

CO1	Gain introductory knowledge about the Sanskrit Language.
CO2	Apply the knowledge gained through our rich cultural heritage.
CO3	Acquire various information about Epic Literature.
CO4	Develop a better understanding of Sanskrit grammar.
CO5	Cultivate the good values among oneself.

Course Name: ENGLISH - I
Course Code: 23E01

CO1	Develop and integrate the use of the four language skills i.e. Reading, Listening, Speaking and Writing.
CO2	Understand the content and underlying meaning in the context.
CO3	Form the habit of reading for pleasure and to gather information.
CO4	Comprehend material other than the prescribed text.
CO5	Develop the linguistic competence that enables the students, to present the culture and civilization of their nation.

Course Name: CORE 1: PROGRAMMING IN C
Course Code: 23UAKCT101

CO1	Recall the fundamentals of Computers with the basic programming components of C.
CO2	Associate the decision making and looping with conditions in C.
CO3	Attain the knowledge on the application of Arrays, Strings in C.
CO4	Understand the uses of structure and pointers.
CO5	Determine the usage of Files concept in C.

Course Name: CORE 2: DATA STRUCTURES AND ALGORITHMS
Course Code: 23UAKCT102

CO1	Describe Array, stack, queue and linked list operation.
CO2	Handle operations like searching, insertion, deletion, traversing mechanism etc., on various data structures.
CO3	Derivation of a set of abstract relations within Graphs.
CO4	Solve problems using Basic algorithms for sorting and merging.
CO5	Acquire knowledge in hash tables and able to handle files.

Course Name: CORE LAB 1: PROGRAMMING LAB – C
Course Code: 23UAKCP103

CO1	Apply the C programming concept to solve the given problem.
CO2	Write C programs using decision making, branching and looping constructs.
CO3	Build C programs to find Fibonacci series and multiplication table.
CO4	Design programs using string handling functions.
CO5	Write programs that perform recursive and to generate patterns.

Course Name: ALLIED 1:NUMERICAL AND STATISTICAL METHODS
Course Code: 23UAKAT104

CO1	Solve the Numerical Algebraic, Transcendental Equations and Simultaneous linear Algebraic Equations.
CO2	Interpolate the values and solve the Numerical Differentiation, Numerical integration problems.
CO3	Find the Mean, Median, Mode, Range, Quartile Deviation and Standard Deviation
CO4	Find the Coefficients of Correlation.
CO5	Solve the Regression Equations and find the mean and coefficient of correlation.

Course Name: FOUNDATION COURSE I: ENVIRONMENTAL STUDIES
Course Code: 23ES01

CO1	Compile different types of ecosystem and its energy flow.
CO2	Analyze the impacts of Natural resources.
CO3	Apply the concepts of biodiversity and its conservation.
CO4	Create awareness on disaster management and measures to prevent pollution.
CO5	Outline the environmental policies and its practices.

Semester II:
Course Name: TAMIL - II
Course Code: 23T02

CO1	அற இலக்கியங்கள் வாயிலாக வாழ்வியல் விழுமியங்களை அறிதல்.
CO2	சமயப்பாடல்கள் வழி பல்சமயக் கோட்பாடுகளைப் பகுத்தறிதல்.
CO3	படைப்பிலக்கியங்கள் கொண்டு பழந்தமிழர் வரலாற்றை உணர்தல்.
CO4	மத நல்லிணக்கத்தைப் புரிந்து கொள்ளல்.
CO5	படைப்பாற்றல் திறனை வளர்த்துக்கொள்ளுதல்.

Course Name: SANSKRIT PAPER II
Course Code: 23S02

CO1	Gain Knowledge about Kavyas.
CO2	Gain Knowledge about the main concepts of Sanskrit Literature.
CO3	Acquire wisdom through Niti kavya.
CO4	Apply the Sabdharupa.
CO5	Develop the knowledge in Sanskrit grammer.

Course Name: PART II ENGLISH II
Course Code: 23E02

CO1	To introduce learners to the essential skills of communication in English
CO2	To enable them use these skills effectively in academic and non-academic contexts.
CO3	To help them identify and eliminate common mistakes in writing and speaking.
CO4	To enable them use various business communication strategies and to use advanced vocabulary.
CO5	To familiarize them in writing descriptive essays and respond to arguments orally and in writing.

Course Name: CORE 3: PYTHON PROGRAMMING
Course Code: 23UAKCT201

CO1	Acquire the knowledge on OOPs and python programming.
CO2	Define and demonstrate the use of built-in data structures lists and dictionary .
CO3	Read and write data from and to files in Python.
CO4	Apply the concepts of python in developing various applications .
CO5	Design and implement a program to solve real world problems .

Course Name: CORE 4: DIGITAL FUNDAMENTALS AND COMPUTER ARCHITECTURE
Course Code: 23UAKCT202

CO1	Identify and apply different number systems and codes.
CO2	Understand the design of sequential circuits such as flip-flops using logical gates .
CO3	Acquire knowledge in data transfer and DMA controller .
CO4	Analyze the digital representation of data in a computer system.
CO5	Demonstrate the ideas by comparing Memory Organization .

Course Name: CORE LAB 2: PROGRAMMING LAB - PYTHON
Course Code: 23UAKCP203

CO1	Use syntax and semantics to create Functions in Python .
CO2	Utilize the core data structures like Lists, Dictionaries and Sets in Python to manipulate data .
CO3	Develop strings manipulation programs in Python .
CO4	Create simple file related Python programs .
CO5	Build Python applications using pygame .

Course Name: ALLIED 2:DISCRETE MATHEMATICS
Course Code: 23UAKAT204

CO1	Know about Connectives & Well-formed Formulas.
CO2	Attain knowledge about Normal Forms and Predicate Calculus.
CO3	Solve the real time problems on Relations.
CO4	Acquire knowledge on Functions and Grammars.
CO5	Compare the characteristics Lattices .

Course Name: FOUNDATION COURSE II: VALUE EDUCATION
Course Code: 23VE01

CO1	Identify the values to be adopted in their personal, Professional and social life .
CO2	Develop personality and social cohesion through various skills inculcated .
CO3	Construct co-ordinal relationship with the family members .
CO4	Identify the challenges and uncertainties of the dynamic environment and empowered to confront them with clarity, courage and composure .
CO5	Buildup social sense and commitment and to discriminate social evils from virtues

DEPARTMENT OF COMPUTER APPLICATIONS

Programme Outcomes for UG Programme: B.Sc. Computer Science and Applications
At the end of the programme, students will be able to

PO Number	PO Statement
PO1	**Critical Thinking:** Take informed actions after identifying the assumptions that frame our thinking and actions, checking out the degree to which these assumptions are accurate and valid, and looking at our ideas and decisions (intellectual, organizational and personal) from different perspectives.
PO2	**Effective Communication:** Speak, read, write and listen clearly in person and through electronic media in English and in any one Indian language, and make meaning of the world by connecting people, ideas, books, media and technology.
PO3	**Social Interaction:** Elicit views of others, mediate disagreements and help to reach conclusions in group settings.
PO4	**Effective Citizenship:** Demonstrate empathetic social concern and equity centered national development, and the ability to act with an informed awareness of issue and participate in civic life through volunteering.
PO5	**Ethics:** Recognize different value systems including your own, understand the moral dimensions of your decisions, and accept responsibility for them.
PO6	**Environment and Sustainability:** Understand the issues of environmental contexts and sustainable development.
PO7	**Self-directed and Life-long Learning:** Acquire the ability to engage in independent and life-long learning in the broadest context of socio-technological changes.

Programme Specific Outcomes:
At the end of the programme, students will be equipped with the Knowledge of

PSO Number	PSO Statement
PSO1	Apply mathematical, computing and domain knowledge for the conceptualization of computing models to provide solutions.
PSO2	Appraise, analyze and develop software applications of varying complexity in diverse domains of computer science.
PSO3	Apply the acquired knowledge to boom for a better career or higher studies.
PSO4	Experiment with the challenges of changing trends in software technologies to become familiar with it and can seek opportunities emerging in trade and industry.
PSO5	Apply and entrust ethics and cyber regulations in their career and professional practice.

SEMESTER: I

Course Outcomes (CO): On completion of the course, students should be able to
Course Name: PART I TAMIL - I
Course Code: 23T01

CO1	இலக்கியங்கள் காட்டும் வாழ்வியல் விழுமியங்களை அறிந்து கொள்ளல்.
CO2	புதுக்கவிதைகள் வழி பல்வேறு வகைப்பட்ட கருத்தாக்கங்களைப் புரிதல்.
CO3	வாழ்வியல் நிகழ்வுகளைப் படைப்பிலக்கியங்கள் வழி அறிதல்.
CO4	நாட்டுப்பற்று மற்றும் பொதுவுடைமைச் சிந்தனைகளைப் பகுத்தறிதல்.
CO5	தன்னம்பிக்கைத் திறனை வளர்க்கும் ஆற்றலைப் பெறுதல்.

Course Name: PART II ENGLISH I
Course Code: 23E01

CO1	Develop and integrate the use of the four language skills i.e. Reading, Listening, Speaking and Writing.
CO2	Understand the content and underlying meaning in the context.
CO3	Form the habit of reading for pleasure and to gather information.
CO4	Comprehend material other than the prescribed text.
CO5	Develop the linguistic competence that enables the students, to present the culture and civilization of their nation.

Course Name: Core I: C PROGRAMMING
Course Code: 23UAWCT101

CO1	Define data types and use them in simple data processing applications.
CO2	Build simple C Programs using Looping and Control Structures.
CO3	Apply the right data representation formats based on the requirements of the problem.
CO4	Demonstrate the concept of User defined functions, Recursions, Scope and Lifetime of Variables, Structures and Unions.
CO5	Develop C programs using pointers and files.

Course Name: CORE II: DIGITAL FUNDAMENTALS AND COMPUTER ARCHITECTURE
Course Code: 23UAWCT102

CO1	Identify, understand and apply different number systems and codes.
CO2	Experiment with various types of gates and solve boolean algebraic expression.
CO3	Apply and design different arithmetic circuits.
CO4	Compare and analyze the working of I/O devices.
CO5	Inspect various memory organizations.

Course Name: Core Practical I:C Programming
Course Code: 23UAWCP103

CO1	Develop the program, write it on a computer, edit, compile, debug, correct, recompile and run it.
CO2	Identify tasks in which the techniques learned are applicable and apply them to write programs, and hence use computers effectively to solve the task.
CO3	Choose the right data representation formats based on the requirements of the problem; define and manage them based on problem domain.
CO4	Compare the various control and looping structures and other programming constructs and choose, the right one for the task in hand.
CO5	Implement the pointer and file handling Operations.

Course Name: ALLIED COURSE–I : NUMERICAL AND STATISTICAL METHODS
Course Code: 23UAWAT104

CO1	Solve Linear algebraic equations.
CO2	Apply Newton's Interpolation Formulae.
CO3	Calculate Measures of Central Tendency and Dispersion.
CO4	To gain Knowledge in Correlation.
CO5	Analyse the Problems using Regression.

Course Name: FOUNDATION COURSE – I: ENVIRONMENTAL STUDIES
Course Code: 23ES01

CO1	Compile different types of ecosystem and its energy flow.
CO2	Analyze the impacts of Natural resources.
CO3	Apply the concepts of biodiversity and its conservation.
CO4	Create awareness on disaster management and measures to prevent pollution.
CO5	Outline the environmental policies and its practices.

SEMESTER: II

Course Outcomes (CO): On completion of the course, students should be able to
Course Name: PART I: TAMIL - II
Course Code: 23T02

CO1	அறஇலக்கியங்கள்வாயிலாகவாழ்வியல் விழுமியங்களைஅறிதல்.
CO2	சமயப்பாடல்கள் வழி பல்சமயக் கோட்பாடுகளைப் பகுத்தறிதல்.
CO3	படைப்பிலக்கியங்கள் கொண்டுபழந்தமிழர் வரலாற்றைஉணர்தல்.
CO4	மதநல்லிணக்கத்தைப் புரிந்துகொள்ளல்.
CO5	படைப்பாற்றல் திறனைவளர்த்துக்கொள்ளுதல்.

Course Name: PART II: ENGLISH II
Course Code: 23E02

CO1	To introduce learners to the essential skills of communication in English
CO2	To enable them use these skills effectively in academic and non-academic contexts.
CO3	To help them identify and eliminate common mistakes in writing and speaking.
CO4	To enable them use various business communication strategies and to use advanced vocabulary.
CO5	To familiarize them in writing descriptive essays and respond to arguments orally and in writing.

Course Name: Core III : C++ Programming
Course Code: 23UAJCT201

CO1	Define the different programming paradigm such as procedure oriented and object oriented programming methodology and conceptualize elements of OO methodology.
CO2	Illustrate and model real world objects and map it into programming objects for a legacy system.
CO3	Identify the concepts of Operator overloading features.
CO4	Discover the usage of inheritance.
CO5	Explain the usage of Files, templates and understand the importance of exception Handling.

Course Name: Core IV: Data Structures

Course Code: 23UAJCT202

CO1	Identify the needs of the data structure, Problem solving strategies and Algorithms.
CO2	Recognize problem properties where stacks, queues, and deques are appropriate data structures.
CO3	Categorize the types of linked list and its representations.
CO4	Implement the tree and graph representations for non-linear data structures.
CO5	Rate various searching and sorting methods.

Course Name: Core Practical II: Programming Lab - C++
Course Code: 23UAJCP203

CO1	Define the different programming paradigm such as procedure oriented and object oriented programming methodology and conceptualize elements of OO methodology.
CO2	Illustrate and model real world objects and map it into programming objects for a legacy system.
CO3	Identify the concepts of Operator overloading features.
CO4	Discover the usage of inheritance.
CO5	Explain the usage of Files, templates and understand the importance of exception Handling.

Course Name: ALLIED II: DISCRETE MATHEMATICS
Course Code: 23UAWAT204

CO1	Know about Connectives & Well-formed Formulas.
CO2	Attain knowledge about Normal Forms and Predicate Calculus.
CO3	Solve the real time problems on Relations.
CO4	Acquire knowledge on Functions and Grammars.
CO5	Compare the characteristics Lattices .

Course Name: Foundation Course – II: Value Education
Course Code: 23VE01

CO1	Identify the values to be adopted in their personal, Professional and social life.

CO2	Develop personality and social cohesion through various skills inculcated.
CO3	Construct co-ordinal relationship with the family members.
CO4	Identify the challenges and uncertainties of the dynamic environment and empowered to confront them with clarity, courage and composure.
CO5	Buildup social sense and commitment and to discriminate social evils from virtues.

Programme Outcomes for UG Programme: B.Sc CS with Data Analytics

At the end of the programme, students will be able to

PO Number	PO Statement
PO1	**Critical Thinking:** Take informed actions after identifying the assumptions that frame our thinking and actions, checking out the degree to which these assumptions are accurate and valid, and looking at our ideas and decisions (intellectual, organizational and personal) from different perspectives.
PO2	**Effective Communication:** Speak, read, write and listen clearly in person and through electronic media in English and in one Indian language, and making meaning of the world by connecting people, ideas, books, media and technology.
PO3	**Social Interaction:** Elicit views of others, mediate disagreements and help reach conclusions in group settings.
PO4	**Effective Citizenship:** Demonstrate empathetic social concern and equity centred national development, and the ability to act with an informed awareness of issues and participate in civic life through volunteering.
PO5	**Ethics:** Recognize different value systems including your own, understand the moral dimensions of your decisions, and accept responsibility for them.
PO6	**Environment and Sustainability:** Understand the issues of environmental contexts and sustainable development.
PO7	**Self-directed and Life-long Learning:** Acquire the ability to engage in independent and life-long learning in the broadest context socio-technological changes.

Programme Specific Outcomes:

At the end of the programme, students will be able to:

PSO Number	PSO Statement
PSO1	Apply the domain knowledge effectively and efficiently in par with the expected quality standards for data analyst professional.
PSO2	Apply the mathematical, technical and critical thinking skills in the discipline of data analytics to find solutions for complex problems.
PSO3	Practice continuous learning to maintain and achieve professional and personal excellence.
PSO4	Use the key technologies in data science and business analytics: data mining, machine learning, visualization techniques, predictive modeling and statistics.
PSO5	Inculcate effective communication skills combined with professional & ethical attitude.

SEMESTER: I

Course Outcomes (CO): On completion of the course, students should be able to
Course Name: TAMIL– I
Course Code: 23T01

CO1	இலக்கியங்கள் காட்டும் வாழ்வியல் விழுமியங்களை அறிந்து கொள்ளல்.
CO2	புதுக்கவிதைகள் வழி பல்வேறு வகைப்பட்ட கருத்தாக்கங்களைப் புரிதல்.
CO3	வாழ்வியல் நிகழ்வுகளைப் படைப்பிலக்கியங்கள் வழி அறிதல்.
CO4	நாட்டுப்பற்று மற்றும் பொதுவுடைமைச் சிந்தனைகளைப் பகுத்தறிதல்.
CO5	தன்னம்பிக்கைத் திறனை வளர்க்கும் ஆற்றலைப் பெறுதல்.

Course Name: English - I
Course Code: 23E01

CO1	Develop and integrate the use of the four language skills i.e. Reading, Listening, Speaking and Writing.
CO2	Understand the content and underlying meaning in the context.
CO3	Form the habit of reading for pleasure and to gather information.
CO4	Comprehend material other than the prescribed text.
CO5	Develop the linguistic competence that enables the students, to present the culture and civilization of their nation.

Course Name: CORE 1: PROGRAMMING IN C
Course Code: 23UAXCT101

CO1	Recall the fundamentals of Computers with the basic programming components of C.
CO2	Associate the decision making and looping with conditions in C.
CO3	Attain the knowledge on the application of Arrays, Strings in C.
CO4	Understand the uses of structure and pointers.
CO5	Determine the usage of Files concept in C.

Course Name: CORE 2: DATA STRUCTURES AND ALGORITHMS
Course Code: 23UAXCT102

CO1	Describe Array, stack, queue and linked list operation.
CO2	Handle operations like searching, insertion, deletion, traversing mechanism etc., on various data structures.
CO3	Derivation of a set of abstract relations within Graphs.
CO4	Solve problems using Basic algorithms for sorting and merging.
CO5	Acquire knowledge in hash tables and able to handle files.

Course Name: CORE LAB 1: PROGRAMMING LAB – C
Course Code: 23UAXCP103

CO1	Apply the C programming concept to solve the given problem.
CO2	Write C programs using decision making, branching and looping constructs.
CO3	Build C programs to find Fibonacci series and multiplication table.
CO4	Design programs using string handling functions.
CO5	Write programs that perform recursive and to generate patterns.

Course Name: ALLIED 1:INTRODUCTION TO LINEAR ALGEBRA
Course Code : 23UAXAT104

CO1	Understand the concept of subspaces, linear Transformation and Span of a set.
CO2	Work with basis, Dimension and to find Rank and Nullity.
CO3	Acquiring knowledge about Inner product spaces.
CO4	Find inverse of a matrix and rank of a matrix by elementary transformations.
CO5	Solve simultaneous linear equations and to find eigen values and eigen vectors.

Course Name: FOUNDATION COURSE I: ENVIRONMENTAL STUDIES
Course Code: 23ES01

CO1	Compile different types of ecosystem and its energy flow.
CO2	Analyze the impacts of Natural resources.
CO3	Apply the concepts of biodiversity and its conservation.
CO4	Create awareness on disaster management and measures to prevent pollution.
CO5	Outline the environmental policies and its practices.

Semester II:
Course Name: TAMIL - II
Course Code: 23T02

CO1	அற இலக்கியங்கள் வாயிலாக வாழ்வியல் விழுமியங்களை அறிதல்.
CO2	சமயப்பாடல்கள் வழி பல்சமயக் கோட்பாடுகளைப் பகுத்தறிதல்.
CO3	படைப்பிலக்கியங்கள் கொண்டு பழந்தமிழர் வரலாற்றை உணர்தல்.
CO4	மத நல்லிணக்கத்தைப் புரிந்து கொள்ளல்.
CO5	படைப்பாற்றல் திறனை வளர்த்துக்கொள்ளுதல்.

Course Name: SANSKRIT PAPER II
Course Code: 23S02

CO1	Gain Knowledge about Kavyas.
CO2	Gain Knowledge about the main concepts of Sanskrit Literature.
CO3	Acquire wisdom through Niti kavya.
CO4	Apply the Sabdharupa.
CO5	Develop the knowledge in Sanskrit grammer.

Course Name: PART II ENGLISH II
Course Code: 23E02

CO1	To introduce learners to the essential skills of communication in English
CO2	To enable them use these skills effectively in academic and non-academic contexts.
CO3	To help them identify and eliminate common mistakes in writing and speaking.
CO4	To enable them use various business communication strategies and to use advanced vocabulary.
CO5	To familiarize them in writing descriptive essays and respond to arguments orally and in writing.

Course Name: CORE 3: PROGRAMMING IN C++
Course Code: 23UAXCT201

CO1	Describe the procedural and object oriented paradigm with concepts of streams, classes, functions, data and objects.
CO2	Demonstrate the various basic programming constructs like decision making statements, looping statements and functions.
CO3	Explain the object oriented concepts like overloading, inheritance, polymorphism, virtual functions, constructors and destructors.
CO4	Interpret the various file stream classes; file types, usage of templates and exception handling mechanisms.
CO5	Develop programs incorporating the programming constructs of object oriented programming concepts.

Course Name: CORE 4: DIGITAL FUNDAMENTALS AND COMPUTER ARCHITECTURE
Course Code: 23UAXCT203

CO1	Identify and apply different number systems and codes.
CO2	Understand the design of sequential circuits such as flip-flops using logical gates .
CO3	Acquire knowledge in data transfer and DMA controller .
CO4	Analyze the digital representation of data in a computer system.
CO5	Demonstrate the ideas by comparing Memory Organization .

Course Name: CORE LAB 2: PROGRAMMING LAB – C++
Course Code: 23UAXCP202

CO1	Apply the various basic programming constructs like decision making statements, looping statements, functions, concepts like overloading, inheritance, polymorphism, virtual functions , constructors and destructors.
CO2	Illustrate the concept of virtual classes, inline functions and friend functions.
CO3	Compare the various file stream classes; file types, usage of templates and exception handling mechanisms.
CO4	Compare the pros and cons of procedure oriented language with the concepts of object oriented language.
CO5	Illustrate the concept of file management in C++ .

Course Name: ALLIED 2:DISCRETE MATHEMATICS
Course Code: 23UAKAT204

CO1	Know about Connectives & Well-formed Formulas.
CO2	Attain knowledge about Normal Forms and Predicate Calculus.
CO3	Solve the real time problems on Relations.
CO4	Acquire knowledge on Functions and Grammars.
CO5	Compare the characteristics Lattices .

Course Name: FOUNDATION COURSE II: VALUE EDUCATION
Course Code: 23VE01

CO1	Identify the values to be adopted in their personal, Professional and social life .
CO2	Develop personality and social cohesion through various skills inculcated .
CO3	Construct co-ordinal relationship with the family members .
CO4	Identify the challenges and uncertainties of the dynamic environment and empowered to confront them with clarity, courage and composure .
CO5	Buildup social sense and commitment and to discriminate social evils from virtues

DEPARTMENT OF COMPUTER TECHNOLOGY AND INFORMATION TECHNOLOGY

SEMESTER: I
Course Outcomes (CO): On completion of the course, students should be able to

Course Name: TAMIL - I
Course Code: 23T01

CO1	இலக்கியங்கள் காட்டும் வாழ்வியல் விழுமியங்களை அறிந்து கொள்ளல்.
CO2	புதுக்கவிதைகள் வழி பல்வேறு வகைப்பட்ட கருத்தாக்கங்களைப் புரிதல்.
CO3	வாழ்வியல் நிகழ்வுகளைப் படைப்பிலக்கியங்கள் வழி அறிதல்.
CO4	நாட்டுப்பற்று மற்றும் பொதுவுடைமைச் சிந்தனைகளைப் பகுத்தறிதல்.
CO5	தன்னம்பிக்கைத் திறனை வளர்க்கும் ஆற்றலைப் பெறுதல்.

Course Name: FRENCH - I
Course Code: 23F01

CO1	Possess a basic knowledge of Self-introduction.
CO2	Learn to interrogate.
CO3	Acquire some basic knowledge of Adjectives.
CO4	Express how to go and return.
CO5	Enquire about few things.

Course Name: ENGLISH - I
Course Code: 23E01

CO1	Developand integratetheuseofthefour languageskills i.e. Reading,Listening,Speakingand Writing
CO2	Understandthecontentandunderlyingmeaninginthecontext.
CO3	Formthehabitofreadingforpleasureandto gather information.
CO4	Comprehendmaterialotherthantheprescribedtext
CO5	Develop the linguistic competence that enables the students, to present the cultureandcivilization oftheirnation.

Course Name: CORE 1: DIGITAL PRINCIPLES
Course Code: 23UALCT101

CO1	Illustrate the concept of number systems and binary codes.
CO2	Analyse the boolean algebra, logic gates and karnaugh map simplification.
CO3	Construct the arithmetic and logic circuit for binary numbers.
CO4	Analyse and design the circuits using various types of flip-flops.
CO5	Summarize the concept of registers, counters and logic families and circuits.

Course Name: CORE 2: PROGRAMMING WITH C AND C++
Course Code: 23UALCT102

CO1	Demonstrate simple applications in C using basic constructs.
CO2	Illustrate the concepts of arrays, string, functions, recursions, structures and unions.
CO3	Develop C program using pointers and file management.
CO4	Summarize the concept of classes, objects, constructors and destructors in C++.
CO5	Apply the operator overloading, inheritance and exception handling concepts to solve the real-world problems

Course Name: CORE PRACTICAL 1: C AND C++ PROGRAMMING LAB
Course Code: 23UALCP103

CO1	Apply the concepts of operators and expressions.
CO2	Implement the branching and looping statements, arrays, strings and structures.
CO3	Demonstrate the concepts of pointers and file management.
CO4	Develop programs with class and objects, constructors and destructors.
CO5	Apply the process of inheritance and exception handling mechanism.

Course Name: ALLIED 1: NUMERICAL AND STATISTICAL METHODS
Course Code: 23UALAT104

CO1	Solve Linear algebraic equations.
CO2	Apply Newton's Interpolation Formulae.
CO3	Calculate Measures of Central Tendency and Dispersion.
CO4	Gain Knowledge in Correlation.
CO5	Analyse the Problems using Regression.

Course Name: FOUNDATION COURSE – I: ENVIRONMENTAL STUDIES
Course Code: 23ES01

CO1	Compile different types of ecosystem and its energy flow.
CO2	Analyze the impacts of Natural resources.
CO3	Apply the concepts of biodiversity and its conservation.
CO4	Create awareness on disaster management and measures to prevent pollution.
CO5	Outline the environmental policies and its practices.

SEMESTER: II
Course Outcomes (CO): On completion of the course, students should be able to

Course Name: TAMIL - II
Course Code: 23T02

CO1	அறஇலக்கியங்கள்வாயிலாகவாழ்வியல் விழுமியங்களைஅறிதல்.
CO2	சமயப்பாடல்கள் வழி பல்சமயக் கோட்பாடுகளைப் பகுத்தறிதல்.
CO3	படைப்பிலக்கியங்கள் கொண்டுபழந்தமிழர் வரலாற்றைஉணர்தல்.
CO4	மதநல்லிணக்கத்தைப் புரிந்துகொள்ளல்.
CO5	படைப்பாற்றல் திறனைவளர்த்துக்கொள்ளுதல்.

Course Name: FRENCH - II
Course Code: 23F02

CO1	Possess a sound knowledge of some of the Itinerary
CO2	Ask about way
CO3	Request about anything and its price in the market/restaurant
CO4	Ask about anything and give information
CO5	Invite guest and visit an apartment

Course Name: ENGLISH - II
Course Code: 23E02

CO1	To introduce learners to the essential skills of communication in English.
CO2	To enable the students use these skills effectively in academic and non-academic contexts.
CO3	To help them identify and eliminate common mistakes in writing and speaking.
CO4	To enable the learners use various business communication strategies and to use advanced vocabulary.
CO5	To familiarize them in writing descriptive essays and respond to arguments.

Course Name: CORE 3: DATA STRUCTURES
Course Code: 23UALCT201

CO1	Demonstrate the algorithm specification, arrays and structures.
CO2	Illustrate the concept of basic data structures like stacks and queues.
CO3	Describe the various types of linked lists and their applications.
CO4	Illustrate the binary search trees and different hashing functions.
CO5	Apply appropriate sorting and searching techniques for given problem.

Course Name: CORE 4: DATABASE MANAGEMENT SYSTEMS
Course Code: 23UALCT202

CO1	Demonstrate the understanding of database systems and their architectures.
CO2	Illustrate the concept of relational algebra, calculus and relational query language.
CO3	Summarize the concepts of Entity Relationship Model and Enhanced Entity Relationship Model.
CO4	Apply the Functional Dependency, Decomposition and Normalization.
CO5	Illustrate the Database Recovery and Database Security.

Course Name: CORE 4: DATABASE MANAGEMENT SYSTEMS LAB
Course Code: 23UALCP203

CO1	Construct a table and apply common SQL statement using DML to perform different operations .
CO2	Apply common SQL statements including DDL and aggregate functions to perform different operations.
CO3	Implement the concept of String functions, Date functions and Cursors.
CO4	Demonstrate the knowledge of Triggers and DCL statements.
CO5	Develop the concept of PL/SQL Procedure, Functions and Exception.

Course Name: ALLIED 2: DISCRETE MATHEMATICS
Course Code: 23UALAT204

CO1	Know about Connectives & Well-formed Formulas.
CO2	Attain knowledge about Normal Forms and Predicate Calculus.
CO3	Solve the real time problems on Relations.
CO4	Acquire knowledge on Functions and Grammars.
CO5	Compare the characteristics Lattices .

Course Name: FOUNDATION COURSE II: VALUE EDUCATION
Course Code: 23VE01

CO1	Identify the values to be adopted in their personal, Professional and social life.
CO2	Develop personality and social cohesion through various skills inculcated.
CO3	Construct co-ordinal relationship with the family members.
CO4	Identify the challenges and uncertainties of the dynamic environment and empowered to confront them with clarity, courage and composure.
CO5	Buildup social sense and commitment and to discriminate social evils from virtues.

KONGU ARTS AND SCIENCE COLLEGE
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Nanjanapuram, Erode - 638 107

DEPARTMENT OF COMPUTER TECHNOLOGY AND INFORMATION TECHNOLOGY

SEMESTER: I
Course Outcomes (CO): On completion of the course, students should be able to

Course Name: TAMIL - I
Course Code: 23T01

CO1	இலக்கியங்கள் காட்டும் வாழ்வியல் விழுமியங்களை அறிந்து கொள்ளல்.
CO2	புதுக்கவிதைகள் வழி பல்வேறு வகைப்பட்ட கருத்தாக்கங்களைப் புரிதல்.
CO3	வாழ்வியல் நிகழ்வுகளைப் படைப்பிலக்கியங்கள் வழி அறிதல்.
CO4	நாட்டுப்பற்று மற்றும் பொதுவுடைமைச் சிந்தனைகளைப் பகுத்தறிதல்.
CO5	தன்னம்பிக்கைத் திறனை வளர்க்கும் ஆற்றலைப் பெறுதல்.

Course Name: FRENCH - I
Course Code: 23F01

CO1	Possess a basic knowledge of Self-introduction.
CO2	Learn to interrogate.
CO3	Acquire some basic knowledge of Adjectives.
CO4	Express how to go and return.
CO5	Enquire about few things.

Course Name: ENGLISH - I
Course Code: 23E01

CO1	Developand integratetheuseofthefour languageskills i.e. Reading,Listening,Speakingand Writing
CO2	Understandthecontentandunderlyingmeaninginthecontext.
CO3	Formthehabitofreadingforpleasureandto gather information.
CO4	Comprehendmaterialotherthantheprescribedtext
CO5	Develop the linguistic competence that enables the students, to present the cultureandcivilization oftheirnation.

Course Name: CORE 1: DIGITAL PRINCIPLES
Course Code: 23UAMCT101

CO1	Illustrate the concept of number systems and binary codes.
CO2	Analyse the boolean algebra, logic gates and karnaugh map simplification.
CO3	Construct the arithmetic and logic circuit for binary numbers.
CO4	Analyse and design the circuits using various types of flip-flops.
CO5	Summarize the concept of registers, counters and logic families and circuits.

Course Name: CORE 2: PROGRAMMING WITH C AND C++
Course Code: 23UAMCT102

CO1	Demonstrate simple applications in C using basic constructs.
CO2	Illustrate the concepts of arrays, string, functions, recursions, structures and unions.
CO3	Develop C program using pointers and file management.
CO4	Summarize the concept of classes, objects, constructors and destructors in C++.
CO5	Apply the operator overloading, inheritance and exception handling concepts to solve the real-world problems

Course Name: CORE PRACTICAL 1: C AND C++ PROGRAMMING LAB
Course Code: 23UAMCP103

CO1	Apply the concepts of operators and expressions.
CO2	Implement the branching and looping statements, arrays, strings and structures.
CO3	Demonstrate the concepts of pointers and file management.
CO4	Develop programs with class and objects, constructors and destructors.
CO5	Apply the process of inheritance and exception handling mechanism.

Course Name: ALLIED 1: NUMERICAL AND STATISTICAL METHODS
Course Code: 23UAMAT104

CO1	Solve Linear algebraic equations.
CO2	Apply Newton's Interpolation Formulae.
CO3	Calculate Measures of Central Tendency and Dispersion.
CO4	Gain Knowledge in Correlation.
CO5	Analyse the Problems using Regression.

Course Name: FOUNDATION COURSE – I: ENVIRONMENTAL STUDIES
Course Code: 23ES01

CO1	Compile different types of ecosystem and its energy flow.
CO2	Analyze the impacts of Natural resources.
CO3	Apply the concepts of biodiversity and its conservation.
CO4	Create awareness on disaster management and measures to prevent pollution.
CO5	Outline the environmental policies and its practices.

SEMESTER: II
Course Outcomes (CO): On completion of the course, students should be able to

Course Name: TAMIL - II
Course Code: 23T02

CO1	அறஇலக்கியங்கள்வாயிலாகவாழ்வியல் விழுமியங்களைஅறிதல்.
CO2	சமயப்பாடல்கள் வழி பல்சமயக் கோட்பாடுகளைப் பகுத்தறிதல்.
CO3	படைப்பிலக்கியங்கள் கொண்டுபழந்தமிழர் வரலாற்றைஉணர்தல்.
CO4	மதநல்லிணக்கத்தைப் புரிந்துகொள்ளல்.
CO5	படைப்பாற்றல் திறனைவளர்த்துக்கொள்ளுதல்.

Course Name: FRENCH - II
Course Code: 23F02

CO1	Possess a sound knowledge of some of the Itinerary
CO2	Ask about way
CO3	Request about anything and its price in the market/restaurant
CO4	Ask about anything and give information
CO5	Invite guest and visit an apartment

Course Name: ENGLISH - II
Course Code: 23E02

CO1	To introduce learners to the essential skills of communication in English.
CO2	To enable the students use these skills effectively in academic and non-academic contexts.
CO3	To help them identify and eliminate common mistakes in writing and speaking.
CO4	To enable the learners use various business communication strategies and to use advanced vocabulary.
CO5	To familiarize them in writing descriptive essays and respond to arguments.

Course Name: CORE 3: DATA STRUCTURES
Course Code: 23UAMCT201

CO1	Demonstrate the algorithm specification, arrays and structures.
CO2	Illustrate the concept of basic data structures like stacks and queues.
CO3	Describe the various types of linked lists and their applications.
CO4	Illustrate the binary search trees and different hashing functions.
CO5	Apply appropriate sorting and searching techniques for given problem.

Course Name: CORE 4: DATABASE MANAGEMENT SYSTEMS
Course Code: 23UAMCT202

CO1	Demonstrate the understanding of database systems and their architectures.
CO2	Illustrate the concept of relational algebra, calculus and relational query language.
CO3	Summarize the concepts of Entity Relationship Model and Enhanced Entity Relationship Model.
CO4	Apply the Functional Dependency, Decomposition and Normalization.
CO5	Illustrate the Database Recovery and Database Security.

Course Name: CORE 4: DATABASE MANAGEMENT SYSTEMS LAB
Course Code: 23UAMCP203

CO1	Construct a table and apply common SQL statement using DML to perform different operations .
CO2	Apply common SQL statements including DDL and aggregate functions to perform different operations.
CO3	Implement the concept of String functions, Date functions and Cursors.
CO4	Demonstrate the knowledge of Triggers and DCL statements.
CO5	Develop the concept of PL/SQL Procedure, Functions and Exception.

Course Name: ALLIED 2: DISCRETE MATHEMATICS
Course Code: 23UAMAT204

CO1	Know about Connectives & Well-formed Formulas.
CO2	Attain knowledge about Normal Forms and Predicate Calculus.
CO3	Solve the real time problems on Relations.
CO4	Acquire knowledge on Functions and Grammars.
CO5	Compare the characteristics Lattices .

Course Name: FOUNDATION COURSE II: VALUE EDUCATION
Course Code: 23VE01

CO1	Identify the values to be adopted in their personal, Professional and social life.
CO2	Develop personality and social cohesion through various skills inculcated.
CO3	Construct co-ordinal relationship with the family members.
CO4	Identify the challenges and uncertainties of the dynamic environment and empowered to confront them with clarity, courage and composure.
CO5	Buildup social sense and commitment and to discriminate social evils from virtues.

PROGRAMME OUTCOMES (PO)

At the end of the programme, students will be able to:

PO Number	Po Statement
PO 1 -	**Critical Thinking:** Take informed actions after identifying the assumptions that frame our thinking and actions, checking out the degree to which these assumptions are accurate and valid, and looking at our ideas and decisions (intellectual, organizational, and personal) from different perspectives.
PO 2 -	**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.
PO 3 -	**Social Interaction:** Elicit views of others, mediate disagreements and help reach conclusions in group settings.
PO 4 -	**Effective Citizenship:** Demonstrate empathetic social concern and equity centered national development, and the ability to act with an informed awareness of issues and participate in civic life through volunteering.
PO 5 -	**Ethics:** Recognize different value systems including your own, understand the moral dimensions of your decisions, and accept responsibility for them.
PO 6 -	**Environment and Sustainability:** Understand the issues of environmental contexts and sustainable development.
PO 7 -	**Self-directed and Life-long Learning:** Acquire the ability to engage in independent and life-long learning in the broadest context socio-technological changes.

PROGRAMMME SPECIFIC OUTCOMES (PSO)

At the end of the programme, students will be equipped with the Knowledge in:

PSO Number	PSO Statement
PSO 1 -	Comprehending the fundamental Biochemical principles and multiple important technical areas of Biochemistry.
PSO 2 -	Applying contextual knowledge and modern tools of Biochemical research for solving problems
PSO 3 -	Understanding the impact of Biochemistry on Environment, Society and other cultures outside the Scientific community
PSO 4 -	Writing and speaking about Biochemistry topics in a clear and concise manner according to professional standards
PSO 5 -	Demonstrating Professional and ethical attitude with enormous responsibility to serve the society.

COURSE OUTCOMES (CO)

On completion of the course, students should be able to

Course Name : **Part I: Tamil I**

Course Code : **23T01**

CO 1	இலக்கியங்கள் காட்டும் வாழ்வியல் விழுமியங்களை அறிந்து கொள்ளல்.
CO 2	புதுக்கவிதைகள் வழி பல்வேறு வகைப்பட்ட கருத்தாக்கங்களைப் புரிதல்.
CO 3	வாழ்வியல் நிகழ்வுகளைப் படைப்பிலக்கியங்கள் வழி அறிதல்.
CO 4	நாட்டுப்பற்று மற்றும் பொதுவுடைமைச் சிந்தனைகளைப் பகுத்தறிதல்.
CO 5	தன்னம்பிக்கைத் திறனை வளர்க்கும் ஆற்றலைப் பெறுதல்.

Course Name : **Part II: English I**

Course Code : **23E01**

CO 1	Develop and integrate the use of the four language skills i.e. Reading, Listening, Speaking and Writing
CO 2	Understand the content and underlying meaning in the context
CO 3	Form the habit of reading for pleasure and to gather information
CO 4	Comprehend material other than the prescribed text
CO 5	Develop the linguistic competence that enables the students, to present the culture and civilization of their nation

Course Name : **Core 1: Chemistry of Biomolecules**

Course Code : **23UAPCT101**

CO 1	Relate the classifications of various Biomolecules
CO 2	Illustrate the structure of carbohydrates, lipids, amino acids and nucleic acids
CO 3	Compare and Contrast the features of various Biological molecules
CO 4	Interpret the biological importance of carbohydrates, lipids, amino acids, proteins, nucleic acids, vitamins and minerals
CO 5	Analyze the properties and applications of complex Biomolecules

SEMESTER – I
COURSE OUTCOMES (CO)

On completion of the course, students should be able to

Course Name : Core 2: Cell Biology and Genetics

Course Code : 23UAPCT102

CO 1	Describe the membrane structure and its role in various organelles.
CO 2	Explain the structure and functions of Nuclear materials.
CO 3	Emphasize the structure and functions of Cell organelles.
CO 4	Differentiate the relationship between cellular and genetic organization.
CO 5	Understand the concepts of Genetics.

Course Name : Core Biochemistry Practicals - I

Course Code : 23UAPCP103

CO 1	Determine the identity of an unknown carbohydrate by carrying out a series of chemical reactions
CO 2	Develop laboratory skills required for qualitative analysis of Carbohydrates
CO 3	Acquire practical knowledge on qualitative analysis of Lipids
CO 4	Study the characteristics of carbohydrates found in natural samples
CO 5	Understand the importance of acid and iodine numbers of biomolecules

Course Name : Allied 1: Chemistry I

Course Code : 23UAPAT104

CO 1	Illustrate the structural elucidation of organic compounds.
CO 2	Summarize the fundamentals of physical chemistry
CO 3	Recall the bonding mechanisms and theories of inorganic compounds
CO 4	Establish the knowledge in polymer chemistry
CO 5	Classify the different laws of physical chemistry

COURSE OUTCOMES (CO)

On completion of the course, students should be able to

Course Name : **Foundation Course I: Environmental Studies**

Course Code : **23ES01**

CO 1	Compile different types of ecosystem and its energy flow.
CO 2	Analyze the impacts of Natural resources
CO 3	Apply the concepts of biodiversity and its conservation.
CO 4	Create awareness on disaster management and measures to prevent pollution.
CO 5	Outline the environmental policies and its practices.

SEMESTER – II

Course Name : **Core 3: Tools and Techniques in Biochemistry**

Course Code : **23UAPCT201**

CO 1	Discuss the features of various biochemical tools
CO 2	Distinguish the principles of different biochemical techniques
CO 3	Determine the protocols involved in the techniques of chromatography, electrophoresis and centrifugation.
CO 4	Focus the applications of analytical techniques and biomedical equipments
CO 5	Understand the fundamental concepts of nanotechnology

Course Name : **Core 4: Nutritional Biochemistry**

Course Code : **23UAPCT202**

CO 1	Acquire detailed knowledge regarding the biological basis of nutrition
CO 2	Develop laboratory skills required for a modern biochemical study of nutrition includes the quantitative analysis and interpretation of results.
CO 3	Attain the mechanisms by which diet can influence our health
CO 4	Integrate biochemical mechanisms with disease pathology and clinical treatment options
CO 5	Gain the principles, knowledge and application of integrative nutrition in the areas of whole foods & food as a medicine

COURSE OUTCOMES (CO)

On completion of the course, students should be able to

Course Name : **Core Biochemistry Practicals - II**
Course Code : **23UAPCP203**

CO 1	Exhibit Knowledge on Biochemical calculations
CO 2	Develop laboratory skills required for qualitative analysis of Proteins
CO 3	Acquire practical knowledge on qualitative analysis of Lipids
CO 4	Learn the techniques of pH measurement for buffer preparation
CO 5	Understand the working principles of chromatography for the separation of biomolecules

Course Name : **Allied 2: Chemistry II**
Course Code : **23UAPAT204**

CO 1	Identify the basic concepts of organic and inorganic chemistry.
CO 2	Summarize the fundamentals of physical chemistry
CO 3	Describe the theories of coordination compounds and laws of thermodynamics.
CO 4	Develop basic knowledge with the synthesis of organic compounds
CO 5	Recall the properties of organic compounds and extraction method of different metals

Course Name : **Allied Practicals 1: Chemistry**
Course Code : **23UAPAP205**

CO 1	Practice the preparation procedure of normal and molar solutions.
CO 2	Develop the experience in handling of glass wares and accurate chemical laboratory skill.
CO 3	Estimate the acid and base solutions by volumetric analysis
CO 4	Examine the methods of organic analysis
CO 5	Distinguish the various organic compounds.

COURSE OUTCOMES (CO)

On completion of the course, students should be able to

Course Name   : Foundation Course - 2: Value Education
Course Code   : 23VE01

CO 1	Identify the values to be adopted in their personal, Professional and social life.
CO 2	Develop personality and social cohesion through various skills inculcated.
CO 3	Construct co-ordinal relationship with the family members.
CO 4	Identify the challenges and uncertainties of the dynamic environment and empowered to confront them with clarity, courage and composure.
CO 5	Buildup social sense and commitment and to discriminate social evils from virtues.

DEPARTMENT OF BIOCHEMISTRY

M.Sc BIOCHEMISTRY

PROGRAMME OUTCOMES (PO)

At the end of the programme, students will be able to:

PO Number	PO Statement
PO 1 -	**Critical Thinking:** Take informed actions after identifying the assumptions that frame our thinking and actions, checking out the degree to which these assumptions are accurate and valid, and looking at our ideas and decisions (intellectual, organizational, and personal) from different perspectives.
PO 2 -	**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.
PO 3 -	**Social Interaction:** Elicit views of others, mediate disagreements and help reach conclusions in group settings.
PO 4 -	**Effective Citizenship:** Demonstrate empathetic social concern and equity centered national development, and the ability to act with an informed awareness of issues and participate in civic life through volunteering.
PO 5 -	**Ethics:** Recognize different value systems including your own, understand the moral dimensions of your decisions, and accept responsibility for them.
PO 6 -	**Environment and Sustainability:** Understand the issues of environmental contexts and sustainable development.
PO 7 -	**Self-directed and Life-long Learning:** Acquire the ability to engage in independent and life-long learning in the broadest context socio-technological changes.

PROGRAMMME SPECIFIC OUTCOMES (PSO)

At the end of the programme, students will be equipped with the Knowledge in:

PSO Number	PSO Statement
PSO 1 -	Representing the key principles of Biochemistry at an advanced level.
PSO 2 -	Identifying local and global issue that need intervention by a Biochemist and develop Biochemical approaches accordingly to solve the problems.
PSO 3 -	Demonstrating critical thinking skills/ laboratory techniques and be capable of designing, carrying out and interpreting Scientific experiments
PSO 4 -	Applying and effectively communicate Scientific reasoning and data analysis in both Written and Oral forums.
PSO 5 -	Exhibiting the principles of Scientific and Professional ethics and apply the knowledge gained in Biochemistry for lifelong learning..

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SEMESTER – I
COURSE OUTCOMES (CO)

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On completion of the course, students should be able to

Course Name   :   Core 1: Biopolymers

Course Code   :   23PBFCT101

CO 1	Recognize the Biomolecules at structural level
CO 2	Classify the Biopolymers present in nature.
CO 3	Distinguish the properties and importance of various Biopolymers
CO 4	Compare and contrast the structure and function of Biopolymers and where they are found
CO 5	Discuss current environmental issues with a focus on the material's impact in relation to the sustainable development objectives set by the community.

Course Name   :   Core 2 - Advanced Bioanalytical Techniques and Bioinformatics

Course Code   :   23PBFCT102

CO 1	Compile the basic principles and applications of analytical techniques
CO 2	Discuss the different methodologies of biochemical techniques
CO 3	Illustrate the instrumental set up of various Bioanalytical techniques
CO 4	Practice the biological databases and Operate various tools in Sequence alignment methods.
CO 5	Illustrate the methods of Protein prediction and Drug designing.

Course Name   :   Core 3 - Advanced Enzymology

Course Code   :   23PBFCT103

CO 1	Recall the fundamentals of concepts of enzymes
CO 2	Identify the active site of enzyme, catalytic reactions
CO 3	Evaluate the enzyme kinetic mechanisms. Compare the enzyme inhibitors
CO 4	Describe the methods for production, purification, characterization and immobilization of enzymes.
CO 5	Illustrate the industrial applications of enzymes

Course Name   :   Core 4: Cellular Biochemistry

Course Code   :   23PBFCT104

CO 1	Recall the cell types and their organelles
CO 2	Express the physiological role of cellular components in living system
CO 3	Illustrate the structure and importance of membrane in a cellular function
CO 4	Evaluate the various process related to cell-cell interaction
CO 5	Summarize the events of a cell and cell abnormalities.

COURSE OUTCOMES (CO)

On completion of the course, students should be able to

Course Name   :   Core 5: Plant Biochemistry and Biotechnology

Course Code   :   23PBFCT105

CO 1	Correlate the different types of Carbon reactions in plants
CO 2	Describe the importance of Biogeo chemical cycles in plants
CO 3	Evaluate the metabolic architecture of plants
CO 4	Analyze the advances in plant biotechnology
CO 5	Plan the applications of plant tissue culture

Course Name   :   Core Biochemistry Practicals - I

Course Code   :   23PBFCP106

CO 1	Acquire practical training to handle the instruments like colorimeter, spectrophotometer and to use them for biochemical determinations.
CO 2	Obtain hands-on training in basic separation techniques in biochemistry
CO 3	Develop competence in handing various chromatographic techniques and apply them in separation of different biological molecules.
CO 4	Gain expertise to determine the bioactive contents from various sources
CO 5	Learn basic bioinformatics tools such as retrieving structures, sequences, aligning the sequences, structure prediction etc.,

Course Name   :   Elective 1: Animal Biotechnology and Nanotechnology

Course Code   :   23PBFET107

CO 1	Acquire practical training to handle the instruments like colorimeter, spectrophotometer and to use them for biochemical determinations.
CO 2	Obtain hands-on training in basic separation techniques in biochemistry
CO 3	Develop competence in handing various chromatographic techniques and apply them in separation of different biological molecules.
CO 4	Gain expertise to determine the bioactive contents from various sources
CO 5	Learn basic bioinformatics tools such as retrieving structures, sequences, aligning the sequences, structure prediction etc.,

COURSE OUTCOMES (CO)

On completion of the course, students should be able to

Course Name : **Core 6 - Endocrinology**

Course Code : **23PBFCT201**

CO 1	Enumerate the classification of hormones, understand the mechanism of action
CO 2	Explain how the secretion of hormones are regulated, including the principles of negative and positive feedback mechanisms
CO 3	Categorize the physiological role of hormones such as Pituitary, Thyroid, Pancreas, Adrenal hormones.
CO 4	Illustrate the structure and chemical nature of hormones
CO 5	Assess the consequences of under and overproduction of hormones.

Course Name : **Core 7 - Immunology and Immunotechniques**

Course Code : **23PBFCT202**

CO 1	Locate the components of the immune system and how cells and organs play an important role in the immune responses.
CO 2	Illustrate the structure and mechanism of action of different immune components and their resultant reaction responses.
CO 3	Compare the principle and applications of various immuno techniques ranging from precipitation and agglutination reactions to ELISA, Radio immunoassay and flow cytometry.
CO 4	Complete knowledge of the molecular mechanisms and kinetics of the immune responses, both humoral and cell mediated immunity.
CO 5	The course will aid in understanding abnormal manifestations of the immune response in the form of Hypersensitive reactions, the mechanisms of transplantation of the various organs the principles of Graft rejection, Autoimmunity, Knowledge of pathogenesis of diseases and designing of immunology based interventions for effective treatment like Antibody based therapy.

Course Name : **Core 8 - Molecular Biology and Molecular Genetics**

Course Code : **23PBFCT203**

CO 1	Analyze the molecular organization of genes
CO 2	Evaluate the mechanism of DNA repair and DNA replication.
CO 3	Distinguish the importance of enzymes in transcription process.
CO 4	Compute the strategies of synthesis and translocation of proteins.
CO 5	Explain the basic principles of transmission genetics.

COURSE OUTCOMES (CO)

On completion of the course, students should be able to

Course Name   :   Core IX - Bioethics, Biosafety, TQM & IPR

Course Code   :   23PBFCT204

CO 1	Describe the concepts of Biodiversity in India and global level
CO 2	Describe the Biosafety levels of microbes, plants and animals
CO 3	Demonstrate Ethics and Ethical issues in GMO's
CO 4	Understand the Trade Quality Management
CO 5	Illustrate the concepts of IPR

Course Name   :   Core Biochemistry Practicals - II

Course Code   :   23PBFCP205

CO 1	Perform different laboratory procedures in the analysis of active constituents of natural sources
CO 2	Acquire expertise in phytochemical screening of plant extract
CO 3	Learn the to isolate biomolecules from various sources
CO 4	Gain hand on experience in qualitative and quantitative analysis of different biomolecules
CO 5	Develop skills to perform various immunoassays such as Ouchterlony double immunodiffusion (DID), RIA

Course Name   :   Elective II: Biochemical and Environmental Toxicology

Course Code   :   23PBFET206

CO 1	Design strategies for study the of dose-response relations.
CO 2	Critically evaluate different advanced exposure assessment methods.
CO 3	Analyze the effects of different types of Hazardous pollutants.
CO 4	Clearly understand the mechanisms and mode of action of different toxic agents.
CO 5	Gain knowledge about utilizing microbes and natural agents for Bioremediation and Detoxification purposes.

Programme Title: B.Sc. Biotechnology
Programme Outcomes:
At the end of the programme, the students will be able to

PO Number	PO Statement
PO1	Critical Thinking: Take informed actions after identifying the assumptions that frame our thinking and actions, checking out the degree to which these assumptions are accurate and valid, and looking at our ideas and decisions (intellectual, organizational, and personal) from different perspectives.
PO2	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.
PO3	Social Interaction: Elicit views of others, mediate disagreements and help reach conclusions in group settings.
PO4	Effective Citizenship: Demonstrate empathetic social concern and equity centered national development, and the ability to act with an informed awareness of issues and participate in civic life through volunteering.
PO5	Ethics: Recognize different value systems including your own, understand the moral dimensions of your decisions, and accept responsibility for them.
PO6	Environment and Sustainability: Understand the issues of environmental contexts and sustainable development.
PO7	Self-directed and Life-long Learning: Acquire the ability to engage in independent and life-long learning in the broadest context socio-technological changes.

Programme Specific Outcomes:

PSO Number	PSO Statement
PSO1	Understand the structure, function and applications of living organisms
PSO2	Enrich the knowledge level in Basic Sciences and Fundamental Biotechnological ideas.
PSO3	Acquire employability skills in technical concepts of varied thrust areas.
PSO4	Empower themselves in emerging and advanced concepts in Life Sciences
PSO5	Apply techniques for manipulation of organisms to produce commercial and Environmentally safe Biotechnological products.

PART I TAMIL I
Course Code – 23T01
Course Outcomes (CO): On completion of the course, students should be able to

CO 1	இலக்கியங்கள் காட்டும் வாழ்வியல் விழுமியங்களை அறிந்து கொள்ளல்.
CO 2	புதுக்கவிதைகள் வழி பல்வேறு வகைப்பட்ட கருத்தாக்கங்களைப் புரிதல்.
CO 3	வாழ்வியல் நிகழ்வுகளைப் படைப்பிலக்கியங்கள் வழி அறிதல்.
CO 4	நாட்டுப்பற்று மற்றும் பொதுவுடைமைச் சிந்தனைகளைப் பகுத்தறிதல்.
CO 5	தன்னம்பிக்கைத் திறனை வளர்க்கும் ஆற்றலைப் பெறுதல்.

PART II ENGLISH I
Course Code – 23E01
Course Outcomes (CO): On completion of the course, students should be able to

CO 1	Develop and integrate the use of the four language skills i.e. Reading, Listening, Speaking and Writing
CO 2	Understand the content and underlying meaning in the context.
CO 3	Form the habit of reading for pleasure and to gather information.
CO 4	Comprehend material other than the prescribed text
CO 5	Develop the linguistic competence that enables the students, to present the culture and civilization of their nation.

CORE PAPER I - CELL BIOLOGY
Course Code - 23UAQCT101
Course Outcomes (CO): On completion of the course, students should be able to

CO 1	Recall the basic concepts about cell, its classification and the membrane architecture
CO 2	Precise the ideas regarding the function and cellular organization of intracellular organelles
CO 3	To understand the Structural organization and function of intracellular organelles
CO 4	Understand cell cycle, cell division and various techniques used in Cell Biology
CO 5	Have a deep insight on various genetic materials inside the nucleus.

CORE PAPER II: GENETICS

Course Code - 23UAQCT102

Course Outcomes (CO): On completion of the course, students should be able to

CO 1	To understand genetic crosses to provide information about genes, alleles, and gene functions
CO 2	Summarize the basic concepts of Genetics, Genetic interactions and Crossing over
CO 3	To describe how a mutation can, change the phenotype
CO 4	Have a deep insight on various chromosomal variations and approaching idea in population genetics
CO 5	To define a population, a species, microevolution and population genetics

CORE BIOTECHNOLOGY PRACTICAL
Course Code – 23UAQCP103
Course Outcomes (CO): On completion of the course, students should be able to

CO 1	Explore the different morphological characteristics of cell types
CO 2	Acquire the fundamental knowledge in smear preparation
CO 3	Recognize the process of cell cycle
CO 4	Analyzation of Drosophila
CO 5	Identification of epithelial cells

ALLIED I: CHEMISTRY
Course Code - 23UAQAT104
Course Outcomes (CO): On completion of the course, students should be able to

CO 1	Illustrate the structural elucidation of organic compounds.
CO 2	Summarize the fundamentals of physical chemistry
CO 3	Recall the basics of thermodynamics
CO 4	Establish the knowledge in Co-Ordination compounds
CO 5	Classify the different laws of physical chemistry

ALLIED PRACTICAL'S I: CHEMISTRY PRACTICAL'S
Course Code - 23UAQAP105
Course Outcomes (CO): On completion of the course, students should be able to

CO 1	Practice the preparation procedure of normal and molar solutions
CO 2	Develop the experience in handling of glass wares and accurate chemical laboratory skill
CO 3	Estimate the acid and base solutions by volumetric analysis
CO 4	Examine the methods of organic analysis
CO 5	Distinguish the various organic compounds

FOUNDATION COURSE – I: ENVIRONMENTAL STUDIES
Course code – 23ES01
Course Outcomes (CO): On completion of the course, students should be able to

CO 1	Compile different types of ecosystem and its energy flow
CO 2	Analyze the impacts of Natural resources
CO 3	Apply the concepts of biodiversity and its conservation
CO 4	Create awareness on disaster management and measures to prevent pollution
CO 5	Outline the environmental policies and its practices

SEMESTER - II

CORE PAPER III: MICROBIOLOGY

Course Code - 23UAQCT201

Course Outcomes (CO): On completion of the course, students should be able to

CO 1	Improve the basic knowledge of development of Microbiology and Microscopic techniques
CO 2	Explaining the fundamental organization of an microbial development and characteristics
CO 3	Develop their ideas related to microbial techniques
CO 4	Experiment with the ideas of microbial role in spoilage and pathogenic effects on living organisms
CO 5	Examine the microbial ecology and its application in various forms

CORE PAPER IV: BIOCHEMISTRY

Course Code - 23UAQCT202

Course Outcomes (CO): On completion of the course, students should be able to

CO 1	Acquire the basic knowledge in structure and classification of biomolecules
CO 2	Conceptualize the properties of biomolecules
CO 3	Strengthen their knowledge in biomolecular metabolism and significance
CO 4	Relate their ideas with respect to enzyme classification, kinetics, regulation and inhibition of enzyme activity
CO 5	Understand the utilities of macro and micro nutrients and their physiochemical properties

CORE BIOTECHNOLOGY PRACTICALS II

Course Code – 23UAQCP203

Course Outcomes (CO): On completion of the course, students should be able to

CO 1	Will be able to understand the techniques of media preparation
CO 2	Extend their skills oriented to enumeration techniques
CO 3	Interpret the difference in staining techniques
CO 4	Apply the biochemical characterization of microbes Analyze the sensitive and resistant ability of microorganisms
CO 5	Analyze and differentiate the biomolecules from unknown sources

ALLIED II: BIOANALYTICAL TECHNIQUES
Course Code - 23UAQAT204
Course Outcomes (CO): On completion of the course, students should be able to

CO 1	List adequate knowledge in basic concepts of buffering system
CO 2	Get familiarized with working principles, tools and techniques of spectroscopic analysis
CO 3	Strengthen their conceptual understanding in centrifugation and radioactivity
CO 4	Have a common outline in chromatographic techniques
CO 5	Examine and perform electrophoresis and electrophysiological techniques

FOUNDATION COURSE – II: VALUE EDUCATION
 Course code – 23VE01
Course Outcomes (CO): On completion of the course, students should be able to

CO 1	Identify the values to be adopted in their personal, Professional and social life.
CO 2	Develop personality and social cohesion through various skills inculcated.
CO 3	Construct co-ordinal relationship with the family members.
CO 4	Identify the challenges and uncertainties of the dynamic environment and empowered to confront them with clarity, courage and composure.
CO 5	Build up social sense and commitment and to discriminate social evils from virtues.

DEPARTMENT OF COSTUME DESIGN AND FASHION

Programme Title: B.Sc. Costume Design and Fashion

Programme Outcomes: At the end of the Programme, the students will be able to

PO Number	PO Statement
PO1	**CRITICAL THINKING:** Take informed actions after identifying the assumptions that frame our thinking and actions, checking out the degree to which these assumptions are accurate and valid, looking at our ideas and decisions (intellectual, organizational and personal) from different perspectives.
PO2	**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.
PO3	**SOCIAL INTERACTION:** Elicit views of others, mediate disagreements and help reach conclusions in group settings.
PO4	**EFFECTIVE CITIZENSHIP:** Demonstrate empathetic social concern and equity centered national development and the ability to act with an informed awareness of issues and participate in civic life through volunteering.
PO5	**ETHICS:** Recognize different value systems including your own, understand the moral dimensions of your decisions and accept responsibility for them.
PO6	**ENVIRONMENT AND SUSTAINABILITY:** Understand the issues of environmental contexts and sustainable development.
PO7	**SELF-DIRECTED AND LIFE LONG LEARNING:** Acquire the ability to engage in independent and lifelong learning in the broadest context socio-technological changes.

Programme Specific Outcomes: After the successful completion of B.Sc. Costume Design and Fashion Programme, the students are expected to:

PSO Number	PSO Statement
PSO1	Outline the basic theories of fashion, pattern making and garment construction.
PSO2	Apply comprehensive abilities in creating innovative designs using manual and digital techniques to match with real world scenario.
PSO3	Gain insights on quality standards and marketing management systems.
PSO4	Acquire technical understanding of process flow of fiber, yarn and fabric manufacture and its processing methods.
PSO5	Create their own design portfolios that demonstrate their skills and match their creative style.

SEMESTER I

Course Outcomes: At the end of the Programme, the students will be able to

Course Name: TAMIL-I

Course Code: 23T01

CO 1	இலக்கியங்கள் காட்டும் வாழ்வியல் விழுமியங்களை அறிந்து கொள்ளல்.
CO 2	புதுக்கவிதைகள் வழி பல்வேறு வகைப்பட்ட கருத்தாக்கங்களைப் புரிதல்.
CO 3	வாழ்வியல் நிகழ்வுகளைப் படைப்பிலக்கியங்கள் வழி அறிதல்.
CO 4	நாட்டுப்பற்று மற்றும் பொதுவுடைமைச் சிந்தனைகளைப் பகுத்தறிதல்.
CO 5	தன்னம்பிக்கைத் திறனை வளர்க்கும் ஆற்றலைப் பெறுதல்.

Course: ENGLISH- I

Course Code: 22E01

CO 1	Develop and integrate the use of the four-language skills Reading, Listening,Speaking and Writing
CO 2	Understand the content and underlying meaning in the context.
CO 3	Form the habit of reading for pleasure and to gather information.
CO 4	Comprehend material other than the prescribed text
CO 5	Develop the linguistic competence that enables the students, to present the cultureand civilization of their nation.

Course Name: CORE I PRINCIPLES OF PATTERN MAKING

Course Code: 23UARCT101

CO 1	Identify the principles of body measurements
CO 2	Outline the basic techniques of pattern making
CO 3	Analyze the standards of good fit in garments
CO 4	Apply the methods of pattern alteration and grading
CO 5	Generalize the layout styles in pattern making

Course Name: CORE II HISTORIC COSTUMES AND TEXTILES
Course Code: 23UARCT102

CO 1	Identify the costumes worn during various historical periods
CO 2	Discover the various periods of Indian Jewellery
CO 3	Compare the various traditional costumes of India
CO 4	Summarize the dyed and printed textiles of India
CO 5	Analyze traditional embroideries of India

Course Name: CORE PRACTICAL I BASICS OF APPAREL DESIGNING
Course Code: 23UARCP103

CO 1	Demonstrate the working mechanism of various sewing machines
CO 2	Construct samples for different types of fullness
CO 3	Analyze the application methods of neckline finishes, plackets and fasteners
CO 4	Develop sleeves and yokes with and without fullness
CO 5	Apply collars and pockets in different position of the garments

Course Name: ALLIED PRACTICAL I FASHION ILLUSTRATION
Course Code: 23UARAP104

CO 1	Sketch the fashion illustration techniques using different mediums
CO 2	Illustrate various head theories to develop croquis
CO 3	Illustrate the human anatomy
CO 4	Outline the garment styles with the help of fabric rendering
CO 5	Illustrate various garment styles

Course Name: FOUNDATION COURSE – I: ENVIRONMENTAL STUDIES
Course Code: 23ES01

CO 1	Compile different types of ecosystem and its energy flow.
CO 2	Analyze the impacts of Natural resources
CO 3	Apply the concepts of biodiversity and its conservation.
CO 4	Analyze the disaster management and measures to prevent pollution.
CO 5	Outline the environmental policies and its practices.

SEMESTER II

Course Outcomes: At the end of the Programme, the students will be able to

Course Name: TAMIL-II

Course Code: 23T02

CO 1	அறஇலக்கியங்கள்வாயிலாகவாழ்வியல் விழுமியங்களைஅறிதல்.
CO 2	சமயப்பாடல்கள் வழி பல்சமயக் கோட்பாடுகளைப் பகுத்தறிதல்.
CO 3	படைப்பிலக்கியங்கள் கொண்டுபழந்தமிழர் வரலாற்றைஉணர்தல்.
CO 4	மதநல்லிணக்கத்தைப் புரிந்துகொள்ளல்.
CO 5	படைப்பாற்றல் திறனைவளர்த்துக்கொள்ளுதல்.

Course Name: ENGLISH-II

Course Code: 23E02

CO 1	To introduce learners to the essential skills of communication in English
CO 2	To enable the students use these skills effectively in academic and non-academic contexts.
CO 3	To help them identify and eliminate common mistakes in writing and speaking.
CO 4	To enable the learners use various business communication strategies and to use advanced vocabulary.
CO 5	To familiarize them in writing descriptive essays and respond to arguments.

Course Name: CORE-III: FIBRE TO FABRIC

Course Code: 23UARCT201

CO 1	Identify the properties of fibres, yarns and fabrics
CO 2	Classify the textile fibres, yarns and fabrics
CO 3	Examine the yarn count
CO 4	Outline the working principle involved in spinning
CO 5	Summarize the various methods of fabric formation

Course Name: CORE PRACTICAL-II: FIBRE TO FABRIC
Course Code: 23UARCP202

CO 1	Identify the textiles fibres using different techniques
CO 2	Examine the yarn count
CO 3	Analyze the level of twist imparted to yarn
CO 4	Predict fabric count and weight
CO 5	Analyze the fabric's dimensional parameters

Course Name: CORE-IV: SEWING TECHNOLOGY
Course Code: 23UARCT203

CO 1	Analyze the type of sewing machineries and its function
CO 2	Describe the stitching mechanism
CO 3	Outline on spreading methods
CO 4	Report on various marking methods
CO 5	Classify stitches and seams

Course Name: ALLIED PRACTICAL-II: FASHION DESIGNING
Course Code: 23UARAP204

CO 1	Identify the terminologies of fashion designing
CO 2	Examine the application of design and design elements
CO 3	Apply the principles of designs to the garments
CO 4	Categorize the basic color theories
CO 5	Illustrate their own designs according to seasons

Course Name: FOUNDATION COURSE-II: VALUE EDUCATION
Course Code: 23VE01

CO 1	Identify the values to be adopted in their personal, Professional and social life.
CO 2	Develop personality and social cohesion through various skills inculcated.
CO 3	Construct co-ordinal relationship with the family members.
CO 4	Identify the challenges and uncertainties of the dynamic environment and empowered to confront them with clarity, courage and composure.
CO 5	Build up social sense and commitment and to discriminate social evils from virtues.

Programme Title: B.Sc. Costume Design and Fashion (Vocational)

Programme Outcomes: At the end of the programme, the students will be able to

PO Number	PO Statement
PO1	**CRITICAL THINKING:** Take informed actions after identifying the assumptions that frame our thinking and actions, checking out the degree to which these assumptions are accurate and valid, looking at our ideas and decisions (intellectual, organizational and personal) from different perspectives.
PO2	**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.
PO3	**SOCIAL INTERACTION:** Elicit views of others, mediate disagreements and help reach conclusions in group settings.
PO4	**EFFECTIVE CITIZENSHIP:** Demonstrate empathetic social concern and equity centered national development and the ability to act with an informed awareness of issues and participate in civic life through volunteering.
PO5	**ETHICS:** Recognize different value systems including your own, understand the moral dimensions of your decisions and accept responsibility for them.
PO6	**ENVIRONMENT AND SUSTAINABILITY:** Understand the issues of environmental contexts and sustainable development.
PO7	**SELF-DIRECTED AND LIFE LONG LEARNING:** Acquire the ability to engage in independent and lifelong learning in the broadest context socio-technological changes.

Programme Specific Outcomes: After the successful completion of B.Sc. Costume Design and Fashion (Vocational) Programme, the students are expected to:

PSO Number	PSO Statement
PSO1	Apply the fundamentals of design, pattern making methods and illustration techniques in traditional and digital forms.
PSO2	Forecast fashion trends and develop expertise to set up their own business establishment.
PSO3	Analyze the sequential processes and technologies involved in manufacture of apparels.
PSO4	Gain insights on the technologies involved in manufacturing process of fibres, yarns, fabrics and finishes.
PSO5	Develop creative fashion portfolio for their design collections.

SEMESTER I

Course Outcomes At the end of the programme, the students will be able to

Course Name: TAMIL-I

Course Code: 23T01

CO 1	இலக்கியங்கள் காட்டும் வாழ்வியல் விழுமியங்களை அறிந்து கொள்ளல்.
CO 2	புதுக்கவிதைகள் வழி பல்வேறு வகைப்பட்ட கருத்தாக்கங்களைப் புரிதல்.
CO 3	வாழ்வியல் நிகழ்வுகளைப் படைப்பிலக்கியங்கள் வழி அறிதல்.
CO 4	நாட்டுப்பற்று மற்றும் பொதுவுடைமைச் சிந்தனைகளைப் பகுத்தறிதல்.
CO 5	தன்னம்பிக்கைத் திறனை வளர்க்கும் ஆற்றலைப் பெறுதல்.

Course: ENGLISH- I

Course Code: 22E01

CO 1	Develop and integrate the use of the four-language skills Reading, Listening, Speaking and Writing
CO 2	Understand the content and underlying meaning in the context.
CO 3	Form the habit of reading for pleasure and to gather information.
CO 4	Comprehend material other than the prescribed text
CO 5	Develop the linguistic competence that enables the students, to present the cultureand civilization of their nation.

Course Name: CORE I PRINCIPLES OF PATTERN MAKING

Course Code: 23UASCT101

CO 1	Identify the principles of body measurements
CO 2	Outline the basic techniques of pattern making
CO 3	Analyze the standards of good fit in garments
CO 4	Apply the methods of pattern alteration and grading
CO 5	Generalize the layout styles in pattern making

Course Name: CORE II HISTORIC COSTUMES AND TEXTILES

Course Code: 23UASCT102

CO 1	Identify the costumes worn during various historical periods
CO 2	Discover the various periods of Indian Jewelry
CO 3	Compare the various traditional costumes of India
CO 4	Summarize the dyed and printed textiles of India
CO 5	Analyze traditional embroideries of India

Course Name: CORE PRACTICAL I – BASICS OF APPAREL DESIGNING
Course Code: 23UASCP103

CO 1	Demonstrate the working mechanism of various sewing machines
CO 2	Construct samples for different types of fullness
CO 3	Analyze the application methods of neckline finishes, plackets and fasteners
CO 4	Develop sleeves and yokes with and without fullness
CO 5	Apply collars and pockets in different position of the garments

Course Name: ALLIED PRACTICAL I FASHION ILLUSTRATION

Course Code: 23UASAP104

CO 1	Sketch the fashion illustration techniques using different mediums
CO 2	Illustrate various head theories to develop croquis
CO 3	Illustrate the human anatomy
CO 4	Outline the garment styles with the help of fabric rendering
CO 5	Illustrate various garment styles

Course Name: FOUNDATION COURSE – I: ENVIRONMENTAL STUDIES

Course Code: 23ES01

CO 1	Compile different types of ecosystem and its energy flow.
CO 2	Analyze the impacts of Natural resources
CO 3	Apply the concepts of biodiversity and its conservation.
CO 4	Analyze the disaster management and measures to prevent pollution.
CO 5	Outline the environmental policies and its practices.

SEMESTER II

Course Outcomes: At the end of the Programme, the students will be able to

Course Name: TAMIL-II

Course Code: 23T02

CO 1	அறஇலக்கியங்கள்வாயிலாகவாழ்வியல் விழுமியங்களைஅறிதல்.
CO 2	சமயப்பாடல்கள் வழி பல்சமயக் கோட்பாடுகளைப் பகுத்தறிதல்.
CO 3	படைப்பிலக்கியங்கள் கொண்டுபழந்தமிழர் வரலாற்றைஉணர்தல்.
CO 4	மதநல்லிணக்கத்தைப் புரிந்துகொள்ளல்.
CO 5	படைப்பாற்றல் திறனைவளர்த்துக்கொள்ளுதல்.

Course Name: ENGLISH-II

Course Code: 23E02

CO 1	To introduce learners to the essential skills of communication in English
CO 2	To enable the students use these skills effectively in academic and non-academic contexts.
CO 3	To help them identify and eliminate common mistakes in writing and speaking.
CO 4	To enable the learners use various business communication strategies and to use advanced vocabulary.
CO 5	To familiarize them in writing descriptive essays and respond to arguments.

Course Name: CORE-III: FIBRE TO FABRIC

Course Code: 23UASCT201

CO 1	Identify the properties of fibres, yarns and fabrics
CO 2	Classify the textile fibres, yarns and fabrics
CO 3	Examine the yarn count
CO 4	Outline the working principle involved in spinning
CO 5	Summarize the various methods of fabric formation

Course Name: CORE PRACTICAL-II: FIBRE TO FABRIC

Course Code: 23UASCP202

CO 1	Identify the textiles fibres using different techniques
CO 2	Examine the yarn count
CO 3	Analyze the level of twist imparted to yarn
CO 4	Predict fabric count and weight
CO 5	Analyze the fabric's dimensional parameters

Course Name: CORE-IV: APPAREL PRODUCTION TECHNIQUES

Course Code: 23UASCT203

CO 1	Analyze the infrastructure facilities needed for starting an industry
CO 2	Outline the pre-production processes of garment manufacturing
CO 3	Assess the concepts of marker making and spreading
CO 4	Develop knowledge on various production operations
CO 5	Categorize knowledge on finishing processes and quality control measures

Course Name: ALLIED PRACTICAL-II: FASHION DESIGNING

Course Code: 23UASAP204

CO 1	Identify the terminologies of fashion designing
CO 2	Examine the application of design and design elements
CO 3	Apply the principles of designs to the garments
CO 4	Categorize the basic color theories
CO 5	Illustrate their own designs according to seasons

Course Name: FOUNDATION COURSE-II: VALUE EDUCATION

Course Code: 23VE01

CO 1	Identify the values to be adopted in their personal, Professional and social life.
CO 2	Develop personality and social cohesion through various skills inculcated.
CO 3	Construct co-ordinal relationship with the family members.
CO 4	Identify the challenges and uncertainties of the dynamic environment and empowered to confront them with clarity, courage and composure.
CO 5	Build up social sense and commitment and to discriminate social evils from virtues.

KONGU ARTS AND SCIENCE COLLEGE
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DEPARTMENT OF MATHEMATICS

Programme Outcomes for B.Sc Mathematics
At the end of the programme, students will be able to

PO Number	PO Statement
PO1	**Critical Thinking:** Take informed actions after identifying the assumptions that frame our thinking and actions, checking out the degree to which these assumptions are accurate and valid, and looking at our ideas and decisions (intellectual, organizational and personal) from different perspectives.
PO2	**Effective Communication:** Speak, read, write and listen clearly in person and through electronic media in English and in any one Indian language, and make meaning of the world by connecting people, ideas, books, media and technology.
PO3	**Social Interaction:** Elicit views of others, mediate disagreements and help to reach conclusions in group settings.
PO4	**Effective Citizenship:** Demonstrate empathetic social concern and equity centered national development, and the ability to act with an informed awareness of issue and participate in civic life through volunteering.
PO5	**Ethics:** Recognize different value systems including your own, understand the moral dimensions of your decisions, and accept responsibility for them.
PO6	**Environment and Sustainability:** Understand the issues of environmental contexts and sustainable development.
PO7	**Self-directed and Life-long Learning:** Acquire the ability to engage in independent and life-long learning in the broadest context of socio-technological changes.

Programme Specific Outcomes:
At the end of the programme, students are expected to

PSO Number	PSO Statement
PSO1	Developing analytical skills, attitude, critical thinking and searching for conclusions to the problems arising from complicated structures.
PSO2	Attaining a rigorous and intellectual pursuit which helps to find patterns and structures.
PSO3	Strengthening the high level of employability and higher education.
PSO4	Improving their performance to appear for Competitive examinations.
PSO5	Investigate real life problems and learn to solve them through formulating Mathematical models.

SEMESTER: I
Course Outcomes (CO): On completion of the course, students should be able to
Course Name: Tamil - I
Course Code: 23T01

CO1	இலக்கியங்கள் காட்டும் வாழ்வியல் விழுமியங்களை அறிந்து கொள்ளல்.
CO2	புதுக்கவிதைகள் வழி பல்வேறு வகைப்பட்ட கருத்தாக்கங்களைப் புரிதல்.
CO3	வாழ்வியல் நிகழ்வுகளைப் படைப்பிலக்கியங்கள் வழி அறிதல்.
CO4	நாட்டுப்பற்று மற்றும் பொதுவுடைமைச் சிந்தனைகளைப் பகுத்தறிதல்.
CO5	தன்னம்பிக்கைத் திறனை வளர்க்கும் ஆற்றலைப் பெறுதல்.

Course Name: English - I
Course Code: 23E01

CO1	Develop and integrate the use of the four language skills i.e. Reading, Listening, Speaking and Writing
CO2	Understand the content and underlying meaning in the context
CO3	Form the habit of reading for pleasure and to gather information
CO4	Comprehend material other than the prescribed text
CO5	Develop the linguistic competence that enables the students, to present the culture and civilization of their nation

Course Name: CORE PAPER I: ALGEBRA & TRIGONOMETRY
Course Code: 23UANCT101

CO1	Apply Binomial theorems for the summation and approximation of infinite series.
CO2	Solve infinite series by using Exponential and Logarithmic series theorem.
CO3	Understand the concept of convergency.
CO4	Apply different tests for convergency.
CO5	Expand trigonometric and hyperbolic functions.

Course Name: CORE PAPER II: DIFFERENTIAL CALCULUS
Course Code: 23UANCT102

CO1	solve problems in successive differentiation.
CO2	solve problems in partial differentiation.
CO3	solve problems in curvature and maxima and minima.
CO4	solve problems in evolutes, involutes and radius of curvature.
CO5	know about the concepts of asymptotes.

Course Name: CORE PRACTICAL I: MATH SOFTWARE: GEOGEBRA
Course Code: 23UAECT103

CO1	use different operations on numbers and matrices. Draw 2D figures.
CO2	calculate measures of central tendency and Centroids.
CO3	calculate area under curves and figures .
CO4	construct curves and lines.
CO5	draw 2D and 3D figures.

Course Name: Allied: Physics - I
Course Code: 23UAEST104

CO1	Recollect the basics of properties of matter
CO2	Understand the principles of mechanics
CO3	Analyze the laws of thermodynamics and cognize thermodynamical phenomenon
CO4	Learn the production methods and application of sound
CO5	Explore the relation between electricity and magnetism

Course Name: Allied: Physics Practical
Course Code: 23UANAP205

CO1	Recognize the relation between theory and experiment
CO2	Acquire the experimental knowledge on the principles of mechanics
CO3	Apply digital principles and investigate logic gates
CO4	Explore the phenomenon of diffraction to experimental situations
CO5	Evaluate the calibration of meters using potentiometer

Course Name: Environmental Studies
Course Code: 23ES01

CO1	Compile different types of ecosystem and its energy flow.
CO2	Analyze the impacts of Natural resources
CO3	Apply the concepts of biodiversity and its conservation.
CO4	Create awareness on disaster management and measures to prevent pollution.
CO5	Outline the environmental policies and its practices.

SEMESTER: II
Course Outcomes (CO): On completion of the course, students should be able to
Course Name: Tamil - II
Course Code: 23T02

CO1	அறஇலக்கியங்கள்வாயிலாகவாழ்வியல் விழுமியங்களைஅறிதல்.
CO2	சமயப்பாடல்கள் வழி பல்சமயக் கோட்பாடுகளைப் பகுத்தறிதல்.
CO3	படைப்பிலக்கியங்கள் கொண்டுபழந்தமிழர் வரலாற்றைஉணர்தல்.
CO4	மதநல்லிணக்கத்தைப் புரிந்துகொள்ளல்.
CO5	படைப்பாற்றல் திறனைவளர்த்துக்கொள்ளுதல்.

Course Name: English - II
Course Code: 23E01

CO1	To introduce learners to the essential skills of communication in English
CO2	To enable the students use these skills effectively in academic and non-academic contexts.
CO3	To help them identify and eliminate common mistakes in writing and speaking.
CO4	To enable the learners use various business communication strategies and to use advanced vocabulary.
CO5	To familiarize them in writing descriptive essays and respond to arguments.

Course Name: CORE PAPER III: ANALYTICAL GEOMETRY THREE DIMENSIONS
Course Code: 23UANCT201

CO1	Solve problems related to plane.
CO2	Solve problems related to straight lines.
CO3	Find the equation of the sphere with related concepts.
CO4	Discuss problems relating to cone.
CO5	Gain knowledge in problems relating to cylinder and study about conicoid.

Course Name: CORE PAPER IV: INTEGRAL CALCULUS
Course Code: 23UANCT202

CO1	Solve problems using reduction formula and types of integration.
CO2	Solve problems in double, triple and multiple integrals.
CO3	Discuss Relation between Beta and Gamma functions.
CO4	Discuss Geometrical Applications using Integral Calculus
CO5	Discuss Physical Applications using Integral Calculus

Course Name: CORE PRACTICAL II : MATH SOFTWARE: SCILAB
Course Code: 23UAECT203

CO1	Find Cardinality and number of proper subsets in sets.
CO2	Evaluate Polynomials, permutations and combinations.
CO3	Find inclusion and exclusion problems using Scilab.
CO4	Compute Greatest Common Divisor (GCD).
CO5	Calculate Binomial Coefficient.

Course Name: Allied: Physics - II
Course Code: 23UAEST204

CO1	Recollect basics in thrust areas of physics
CO2	Acquire essential knowledge in the field of nuclear models and accelerators
CO3	Learn the mechanism involved in laser and understand its applications
CO4	Analyze the types of semiconductors and their biasing mechanism
CO5	Investigate different number systems and logic gates in digital electronics

Course Name: Allied: Physics Practical
Course Code: 23UANAP205

CO1	Recognize the relation between theory and experiment
CO2	Acquire the experimental knowledge on the principles of mechanics
CO3	Apply digital principles and investigate logic gates
CO4	Explore the phenomenon of diffraction to experimental situations
CO5	Evaluate the calibration of meters using potentiometer

Course Name: Value Education
Course Code: 23VE01

CO1	Identify the values to be adopted in their personal, Professional and social life.
CO2	Develop personality and social cohesion through various skills inculcated.
CO3	Construct co-ordinal relationship with the family members.
CO4	Identify the challenges and uncertainties of the dynamic environment and empowered to confront them with clarity, courage and composure.
CO5	Buildup social sense and commitment and to discriminate social evils from virtues.

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DEPARTMENT OF MATHEMATICS

Programme Outcomes: M.Sc Mathematics

At the end of the programme, students will be able to

PO Number	PO Statement
PO1	**Critical Thinking:** Apply Mathematical and computational strategies in order to solve real world problems.
PO2	**Effective Communication:** Communicate Mathematical concepts in oral and written form.
PO3	**Social Interaction:** Identify the accurate solutions for the society oriented problems via various Mathematical models and projects.
PO4	**Effective Citizenship:** Attain the ability to identify, formulate and solve challenging problems of the society and nation through Mathematics.
PO5	**Knowledge Formulation:** Demonstrate and apply various specialized areas of advanced Mathematics and its applications using modern tools.
PO6	**Environment and Sustainability:** Instill a sense of attitude in tackling social and environmental issues
PO7	**Self-directed and Life-long Learning:** Identify their own educational and career needs from the global challenges.

Programme Specific Outcomes:

At the end of the programme, students are expected to

PSO Number	PSO Statement
PSO1	Develop the Mathematical skills and knowledge from abstract and applied Mathematical concepts.
PSO2	Acquire analytical and logical thinking through various Mathematical tools and techniques.
PSO3	Attain in-depth knowledge to pursue higher studies, work as a professional and ability to conduct research.
PSO4	Develop a deep knowledge in Mathematics appreciating the connections between theory and its applications.
PSO5	Identify the applications of Mathematics in other disciplines and society.

SEMESTER: I

Course Outcomes (CO): On completion of the course, students should be able to
Course Name: CORE PAPER I: ALGEBRA
Course Code: 23PBECT101

CO1	Learn the concepts and develop the working knowledge on Groups, Normal Subgroups, Quotient groups and Sylow's theorems.
CO2	Understand the concepts of Ideals, Quotient Rings and field of quotients of an Integral domain and Euclidean Rings.
CO3	Understand Ring of polynomials.
CO4	Acquire knowledge on extension fields and roots of polynomials.
CO5	Analyze the elements of Galois theory and Finite Fields.

Course Name: CORE PAPER II: REAL ANALYSIS
Course Code: 23PBECT102

CO1	Outline the concepts of the Riemann-Stieltjes Integral.
CO2	Analyse Uniform Convergence and Continuity.
CO3	Discuss about Linear transformations, Contraction mapping principle, Inverse function and Implicit function theorems.
CO4	Analyse Lebesque measure.
CO5	Discuss about Lebesque integral.

Course Name: CORE PAPER III: ORDINARY DIFFERENTIAL EQUATIONS
Course Code: 23PBECT103

CO1	Determine the Picard's method of successive approximation and Problems of existence and uniqueness.
CO2	Solve the Simultaneous differential equations.
CO3	Find the solution of Legendre equation, Legendre polynomials and Bessel functions.
CO4	Solve the Existence and uniqueness theorem and Fundamental matrix.
CO5	Determine the general solution of linear systems.

Course Name: CORE PAPER IV: NUMERICAL ANALYSIS
Course Code: 23PBECT104

CO1	Acquire the knowledge numerical differentiation and integration
CO2	Apply the concept of solution of system of equation and method of iteration.
CO3	Analyze the boundary value problems and characteristic value problems
CO4	Demonstrate Euler and Runge Kutta method and examine the Adams Moulton method.
CO5	Evaluate the concepts Poisson equation, Laplace's equation, explicit method and wave equation by finite differences

Course Name: Elective - I : LaTeX
Course Code: 23PBEET105

CO1	Know about Text formatting and Basics of a LaTeX file.
CO2	Know about commands and environments.
CO3	Do document Layout and Organization.
CO4	Draw pictures in LaTeX.
CO5	Create tables and type mathematical formulas, environments and symbols in LaTeX.

Course Name: Elective - II :   OBJECT ORIENTED PROGRAMMING IN C++
Course Code: 23PBEET106

CO1	Know about basic concepts of Object Oriented Programming.
CO2	Understand Tokens, Expressions and Control structure.
CO3	Know about functions Manage in C++ and Console I/O operations.
CO4	Understand classes, objects, constructors and destructors.
CO5	Utilize Operators overloading and Inheritance.

SEMESTER: II
Course Outcomes (CO): On completion of the course, students should be able to
Course Name: CORE PAPER V: COMPLEX ANALYSIS
Course Code: 23PBECT201

CO1	Learn the concepts and develop the working knowledge on Groups, Normal Subgroups, Quotient groups and Sylow's theorems.
CO2	Understand the concepts of Ideals, Quotient Rings and field of quotients of an Integral domain and Euclidean Rings.
CO3	Understand Ring of polynomials.
CO4	Acquire knowledge on extension fields and roots of polynomials.
CO5	Analyze the elements of Galois theory and Finite Fields.

Course Name: CORE PAPER VI: PARTIAL DIFFERENTIAL EQUATIONS
Course Code: 23PBECT202

CO1	Outline the concepts of analytic function, conformality and linear transformations.
CO2	Perform complex integration from theoretical concepts.
CO3	Analyse local properties of analytic functions and use the calculus of residues.
CO4	Analyse harmonic functions and power series expansion.
CO5	Discuss about Riemann mapping theorem and conformal mapping of polygons.

Course Name: CORE PAPER VII: CLASSICAL MECHANICS
Course Code: 23PBECT203

CO1	Analyze mechanical behavior of particle.
CO2	Study Lagrange's equations for various systems.
CO3	Solve the Hamilton Equations of Motion.
CO4	Understand the concepts of Canonical transformation and Poisson brackets.
CO5	Solve Hamilton – Jacobi theory and the Harmonic Oscillator problem.

Course Name: CORE PAPER VIII: OPERATIONS RESEARCH
Course Code: 23PBECT204

CO1	Analyze mechanical behavior of particle.
CO2	Study Lagrange's equations for various systems.
CO3	Solve the Hamilton Equations of Motion.
CO4	Understand the concepts of Canonical transformation and Poisson brackets.
CO5	Solve Hamilton – Jacobi theory and the Harmonic Oscillator problem.

Course Name: Elective - II : LaTeX PRACTICAL
Course Code: 23PBEEP205

CO1	Fix foot note, margin note, end note and to prepare bio-data using LaTeX.
CO2	Draw tables and graphs using LaTeX.
CO3	Write mathematical expressions using LaTeX.
CO4	Write mathematical equations using LaTeX.
CO5	Prepare model question paper, conference invitation and power point presentation using LaTeX.

Course Name: Elective - II : **OBJECT ORIENTED PROGRAMMING IN C++ PRACTICAL**

Course Code: 23PBEEP206

CO1	create a class FLOAT.
CO2	represent points in the polar and rectangle systems.
CO3	create a class MAT of size M*N.
CO4	find Area Computation using Derived Class.
CO5	apply overloading concepts for vector addition, Multiplication of a vector by a scalar quantity

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DEPARTMENT OF PHYSICS

FOR THE CANDIDATES ADMITTED DURING THE ACADEMIC YEAR
2023-2024 AND ONWARDS

Programme Outcomes:

At the end of the programme, students will be able to

PO Number	PO Statement
PO1	**Critical Thinking:** Take informed actions after identifying the assumptions that frame our thinking and actions, checking out the degree to which these assumptions are accurate and valid, and looking at our ideas and decisions (intellectual, organizational, and personal) from different perspectives.
PO2	**Effective Communication:** Speak, read, write and listen clearly in person and through electronic media in English and in any one Indian language and make meaning of the world by connecting people, ideas, books, media and technology.
PO3	**Social Interaction:** Elicit views of others, mediate disagreements and help to reach conclusions in group settings.
PO4	**Effective Citizenship:** Demonstrate empathetic social concern and equity centered national development, and the ability to act with an informed awareness of issues and participate in civic life through volunteering.
PO5	**Ethics:** Recognize different value systems including your own, understand the moral dimensions of your decisions, and accept responsibility for them.
PO6	**Environment and Sustainability:** Understand the issues of environmental contexts and sustainable development.
PO7	**Self-directed and Life-long Learning:** Acquire the ability to engage in independent and life-long learning in the broadest context of socio-technological changes.

Programme Specific Outcomes:

At the end of the programme, students will be equipped with the knowledge in

PSO Number	PSO Statement
PSO1	Acquiring inquisitive skills to explore theoretical and experimental physics problems.
PSO2	Expanding fundamental knowledge over core areas of physics and motivated to pursue higher education.
PSO3	Developing effective communication skill to express technical views in understandable manner.
PSO4	Analyzing the properties of different class of materials.
PSO5	Understanding the pertinence of physics to diverse area and tune indispensible professional skill sets.

Course Outcomes (CO): On completion of the course, students should be able to

COURSE: CORE I: MECHANICS
COURSE CODE: 23UAOCT101

CO1	Recollect and understand the concepts related to conservation laws
CO2	Acquire the knowledge of essential equations to solve problems in Mechanics
CO3	Apply the indispensable principles of mechanics to solve rigid body problems
CO4	Learn the formulation of Lagrangian to study mechanics of macroscopic systems
CO5	Explore Hamiltonian formulation of mechanics

COURSE: CORE II PROPERTIES OF MATTER AND SOUND
COURSE CODE: 23UAOCT102

CO1	Recollect and understand the concepts related to Elasticity, Gravitation, surface tension, viscosity and sound
CO2	Acquire the essential knowledge of waves and oscillations
CO3	Analyze the principles of capillarity and angle of contact
CO4	Investigate the various properties of matter for application aspects
CO5	Explore production methods and application of sound

COURSE: ALLIED I: CHEMISTRY I
COURSE CODE: 23UAOAT103

CO1	Illustrate the structural elucidation of organic compounds.
CO2	Summarize the fundamentals of physical chemistry
CO3	Recall the bonding mechanisms and theories of inorganic compounds
CO4	Establish the knowledge in polymer chemistry
CO5	Classify the different laws of physical chemistry

COURSE: FOUNDATION COURSE – I: ENVIRONMENTAL STUDIES
COURSE CODE: 23ES01

CO1	Compile different types of ecosystem and its energy flow
CO2	Analyze the impacts of Natural resources
CO3	Apply the concepts of biodiversity and its conservation
CO4	Create awareness on disaster management and measures to prevent pollution
CO5	Outline the environmental policies and its practices.

COURSE: CORE III: THERMAL AND STATISTICAL PHYSICS
COURSE CODE: 23UAOCT201

CO1	Remember the methods of heat transmission and understand the underlying principles of kinetic theory of gases
CO2	Attain theoretical knowledge to distinguish real and ideal gases to understand equations of state
CO3	Apply thermodynamic principles to realize the working of various thermodynamical systems
CO4	Analyze various thermodynamic processes
CO5	Classify the systems based on distribution concepts of Statistical Physics

COURSE: CORE IV: BASIC ELECTRONICS
COURSE CODE: 23UAOCT202

CO1	Reminisce the concepts of diodes
CO2	Expand the principles of diodes to transistors
CO3	Relate the applications of active components in amplifiers and oscillators
CO4	Analyse the usage of passive components in clippers and clampers
CO5	Estimate the application of op-amp in mathematical operations

COURSE: CORE PRACTICAL – I
COURSE CODE: 23UAOCP203

CO1	Recognize the relation between theory and experiment
CO2	Acquire the fundamental knowledge on resonance
CO3	Explore the phenomenon of diffraction to experimental situations
CO4	Analyze Thermodynamic principles in practical aspects
CO5	Evaluate the properties of viscosity and surface tension of various liquids

COURSE: ALLIED II: CHEMISTRY II
COURSE CODE: 23UAOAT204

CO1	Identify the basic concepts of organic and inorganic chemistry.
CO2	Summarize the fundamentals of physical chemistry
CO3	Describe the theories of coordination compounds and laws of thermodynamics.
CO4	Develop basic knowledge with the synthesis of organic compounds
CO5	Recall the properties of organic compounds and extraction method of different metals

COURSE: ALLIED PRACTICAL I: CHEMISTRY
COURSE CODE: 23UAOAP205

CO1	Practice the preparation procedure of normal and molar solutions.
CO2	Develop the experience in handling of glass wares and accurate chemical laboratory skill.
CO3	Estimate the acid and base solutions by volumetric analysis
CO4	Examine the methods of organic analysis
CO5	Distinguish the various organic compounds.

COURSE: FOUNDATION COURSE – II: VALUE EDUCATION
COURSE CODE: 23VE01

CO1	Identify the values to be adopted in their personal, Professional and social life.
CO2	Develop personality and social cohesion through various skills inculcated.
CO3	Construct co-ordinal relationship with the family members.
CO4	Identify the challenges and uncertainties of the dynamic environment and empowered to confront them with clarity, courage and composure.
CO5	Buildup social sense and commitment and to discriminate social evils from virtues.

Programme Outcomes for UG Programme:

At the end of the programme the students will be able to

PO Number	PO Statement
PO1	**Critical Thinking:** Take informed actions after identifying the assumptions that frame our thinking and actions, checking out the degree to which these assumptions are accurate and valid, and looking at our ideas and decisions (intellectual, organizational and personal) from different perspectives.
PO2	**Effective Communication:** Speak, read, write and listen clearly in person and through electronic media in English and in any one Indian language, and make meaning of the world by connecting people, ideas, books, media and technology.
PO3	**Social Interaction:** Elicit views of others, mediate disagreements and help to reach conclusions in group settings.
PO4	**Effective Citizenship:** Demonstrate empathetic social concern and equity centered national development, and the ability to act with an informed awareness of issue and participate in civic life through volunteering.
PO5	**Ethics:** Recognize different value systems including your own, understand the moral dimensions of your decisions, and accept responsibility for them.
PO6	**Environment and Sustainability:** Understand the issues of environmental contexts and sustainable development.
PO7	**Self-directed and Life-long Learning:** Acquire the ability to engage in independent and life-long learning in the broadest context of socio-technological changes.

Programme Specific Outcomes:

After the successful completion of B. Sc. Psychology programme, students will be equipped with the knowledge in

PSO Number	PSO Statement
PSO1	The field of Psychology.
PSO2	Practicing and spreading the awareness regarding mental health.
PSO3	Managing counseling sessions and therapies in clinical settings.
PSO4	The application of theories and concepts in psychology in general life for the wellbeing ofsociety.
PSO5	Design and develop psychological concepts in Industrial Sector.

SEMESTER: I
Course Outcomes (CO): On completion of the course, students should be able to
Course Name: LANGUAGE I TAMIL I
Course Code: 23T01

CO1	இலக்கியங்கள் காட்டும் வாழ்வியல் விழுமியங்களை அறிந்து கொள்ளல்.
CO2	புதுக்கவிதைகள் வழி பல்வேறு வகைப்பட்ட கருத்தாக்கங்களைப் புரிதல்.
CO3	வாழ்வியல் நிகழ்வுகளைப் படைப்பிலக்கியங்கள் வழி அறிதல்.
CO4	நாட்டுப்பற்று மற்றும் பொதுவுடைமைச் சிந்தனைகளைப் பகுத்தறிதல்.
CO5	தன்னம்பிக்கைத் திறனை வளர்க்கும் ஆற்றலைப் பெறுதல்.

Course Name: LANGUAGE II ENGLISH I
Course Code : 23E01

CO1	Develop and integrate the use of the four-language skills Reading, Listening,Speaking and Writing
CO2	Understand the content and underlying meaning in the context.
CO3	Form the habit of reading for pleasure and to gather information.
CO4	Comprehend material other than the prescribed text
CO5	Develop the linguistic competence that enables the students, to present the cultureand civilization of their nation.

Course Name: CORE I: INTRODUCTION TO PSYCHOLOGY I
Course Code : 23UAVCT101

CO1	Understand the meaning, definition, scope, methods, and history of psychology.
CO2	Analyze the process of sensation and perception.
CO3	Strengthen the knowledge about the nature of mind and sleep.
CO4	Acquire the learning types and theories of learning.
CO5	Understand the process of memory and forgetting.

Course Name: CORE II: DEVELOPEMENTAL PSYCHOLOGY I
Course Code : 23UAVCT102

CO1	Summarize the developmental stage of conception through birth
CO2	Explain the developmental stage of infancy
CO3	Gain knowledge about the developments in babyhood.
CO4	Recall the various developmental process of early childhood
CO5	Relate various developmental stages of socialization, family relations and personality development

Course Name: CORE III: BIO PSYCHOLOGY
Course Code : 23UAVCT103

CO1	Explain the meaning of biopsychology and the reciprocal relationship between brain and behavior.
CO2	Illustrate the anatomy and function of the neural cell.
CO3	Relate how neurons communicate with each other.
CO4	Name the divisions of the nervous system, its chief structure and functions.
CO5	Outline the role of glands and Hormones in influencing Human Behavior.

Course Name: ALLIED I: POSITIVE PSYCHOLOGY
Course Code : 23UAVAT104

CO1	To understand the basic characteristics of positive psychology.
CO2	To know the self and happiness.
CO3	To understand the positive emotions.
CO4	To explain positive cognitive states and mindfulness.
CO5	To know about empathy, egotism and positive environments.

Course Name: FOUNDATION COURSE I: ENVIRONMENTAL STUDIES
Course Code: 23ES01

CO1	Compile different types of ecosystems and its energy flow.
CO2	Analyze the impacts of Natural resources
CO3	Apply the concepts of biodiversity and its conservation.
CO4	Create awareness on disaster management and measures to prevent pollution.
CO5	Outline the environmental policies and its practices.

Course Outcomes (CO): On completion of the course, students should be able to
Course Name: LANGUAGE II TAMIL II
Course Code: 23T02

CO1	அறஇலக்கியங்கள்வாயிலாகவாழ்வியல் விழுமியங்களைஅறிதல்.
CO2	சமயப்பாடல்கள் வழி பல்சமயக் கோட்பாடுகளைப் பகுத்தறிதல்.
CO3	படைப்பிலக்கியங்கள் கொண்டுபழந்தமிழர் வரலாற்றைஉணர்தல்.
CO4	மதநல்லிணக்கத்தைப் புரிந்துகொள்ளல்.
CO5	படைப்பாற்றல் திறனைவளர்த்துக்கொள்ளுதல்.

Course Name: LANGUAGE II ENGLISH II
Course Code : 23E02

CO1	To introduce learners to the essential skills of communication in English
CO2	To enable them use these skills effectively in academic and non-academic contexts.
CO3	To help them identify and eliminate common mistakes in writing and speaking.
CO4	To enable them use various business communication strategies and to use advanced vocabulary.
CO5	To familiarize them in writing descriptive essays and respond to arguments orally and in writing.

Course Name: CORE IV: INTRODUCTION TO PSYCHOLOGY II
Course Code : 23UAVCT201

CO 1	Spell out the different types of cognition, thinking processes, decision making and language development.
CO 2	Summarize the various theories of Motivation, frustration and conflicts.
CO 3	Outline the characteristics and theories of emotions and stress.
CO 4	Explain the nature, theories and assessment of Intelligence, Emotional Intelligence and creativity.
CO 5	Analyze various theories of Personality and describe the assessment & application of the Personality tests.

Course Name: CORE V: DEVELOPEMENTAL PSYCHOLOGY II
Course Code : 23UAVCT202

CO 1	Summarize the developmental process of puberty.
CO 2	Strengthen their knowledge about developmental tasks of adolescence.
CO 3	Relate the various development process of young adulthood.
CO 4	Explain the developmental tasks of middle age.
CO 5	Identify problems related to old age.

Course Name: CORE VI: THEORIES OF PERSONALITY
Course Code : 23UAVCT203

CO 1	Outline the biological basis of Sleep & Dream and various sleep disorders.
CO 2	Explain brain development and neuro plasticity
CO 3	Summarize the brain mechanism involved in regulating thirst, hungry and feeding.
CO 4	Relate biopsychology of emotions in relation to stress and ill health.
CO 5	Identify the brain areas associated with learning& memory and outline the causes of memory disorders.

Course Name: ALLIED II: HEALTH PSYCHOLOGY
Course Code : 23UAVAT204

CO 1	Outline the definition and scope of Health Psychology.
CO 2	Explain the various models of health behavior.
CO 3	Identify types of pain, symptoms and suitable intervention.
CO 4	Summarize theories of stress, sources of stress and coping.
CO 5	Explain health promoting strategies.

Course Name: FOUNDATION COURSE II: VALUE EDUCATION
Course Code: 23VE01

CO 1	Identity the values to be adopted in their personal. Professional and social life.
CO 2	Develop personality and social cohesion through various skills inculcated.
CO 3	Construct coordinal relationship with the family members.
CO 4	Identify the challenges and uncertainties of the dynamic environment and empowered to confront them with clarity, courage and composure.
CO 5	Buildup social sense and commitment and to discriminate social evils from virtues.

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DEPARTMENT OF SOCIAL WORK

Programme Outcomes:

At the end of the programme, the students will be able to

PO Number	PO Statement
PO1	**Critical Thinking:** Apply the strategies and techniques in order to solve real world problems.
PO2	**Effective Communication:** Communicate the concepts in oral and written form
PO3	**Social Interaction:** Identify the accurate solutions for the society – oriented problems using the Domain knowledge.
PO4	**Effective Citizenship:** Attain the ability to identify, formulate and solve challenging problems of the society and nation
PO5	**Knowledge Formulation:** Demonstrate and apply various specialized areas of advanced topic and its applications using modern tools.
PO6	**Environment and Sustainability:** Instill a sense of attitude in tackling social and environmental issues.
PO7	**Self-directed and Life-long Learning:** Identify their own educational an career needs from the global challenges.

Programme Specific Outcomes:

After the successful completion of MSW Programme, students will able to

PO Number	PO Statement
PSO1	Gain basic concepts, various techniques, skills, methods, models, approaches and fields of Social Work.
PSO2	Procure knowledge on social legislations and take remedial measures to help the victims of oppression and violation by creating desirable change thereby facilitating their empowerment and sustainable development of the society.
PSO3	Develop a systematic, critical approach to problem solving at all levels of the social work interventions.
PSO4	Provide solution to the problems which will help in Social Policy making through research.
PSO5	Become a responsible citizen in the society with good human values, ethics and principles.

SEMESTER I

COURSE NAME: INTRODUCTION TO SOCIAL WORK PROFESSION
COURSE CODE : 23PBCCT101
Course Outcomes (CO) : On Completion of the course, students will be able to

CO1	Observe the concepts, scope, background and principles of social work.
CO2	Relate philosophy, values and code of ethics in social work & professional associations.
CO3	Enrich the knowledge on application of different methods and models of social work.
CO4	Explore the role of social worker in different fields of social work.
CO5	Assess the use of modern technology in emerging areas of social work.

COURSE NAME : PSYCHOLOGY FOR SOCIAL WORK PRACTICE

COURSE CODE : 23PBCCT102
Course Outcomes (CO) : On Completion of the course, students will be able to

CO1	Enrich the knowledge on concept, fields, schools, branches and development of psychology.
CO2	Explore the basic insight on human growth & development.
CO3	Focuses on the concepts, theories, measurement and factors influencing personality development.
CO4	Examine the concept, types, principles and theories of Learning, Motivation & Perception.
CO5	Review the concept of abnormality and treatment for promotion community mental health.

COURSE NAME : SOCIOLOGY FOR SOCIAL WORK PRACTICE
COURSE CODE : 23PBCCT103
Course Outcomes (CO) : On Completion of the course, students will be able to

CO1	Enhance the concepts of sociology and Indian society.
CO2	Enrich the basic concept, functions and stages of socialization and social process.
CO3	Discover the Indian family system and its impact on society.
CO4	Explore the social stratification and analyze modern trends of Caste System in India.
CO5	Appraise the theories of social change, social control and social problems in society.

COURSE NAME : SOCIAL WORK PERSPECTIVES FOR PERSONS WITH DISABILITIES
COURSE CODE : 23PBCCT104
Course Outcomes (CO) : On Completion of the course, students will be able to

CO1	Relate the concept, types, prevalence, prevention and management of disability.
CO2	Explore the schemes and programmes to empowerment the person with disabilities.
CO3	Focus on the legislations and model related to persons with disability.
CO4	Assess the model and institutional services for persons with disability.
CO5	Review the intervention methods and strategies in managing the disability.

COURSE NAME : SOCIAL CASE WORK
COURSE CODE : 23PBCCT105
Course Outcomes (CO) : On Completion of the course, students will be able to

CO1	Enhance the knowledge on nature, scope, development, principles, components and skills of social case work.
CO2	Interpret the basic concepts, tools and techniques in working with Individuals in problem solving and in developmental work.
CO3	Relate the approaches, theories and interventions in social case work.
CO4	Explore the social case workers role in different settings.
CO5	Assess the problems, limitations, practice and research of social case work.

COURSE NAME : OBSERVATION FIELD WORK PRACTICUM – I (Including One Week Rural/Tribal Camp)
COURSE CODE : 23PBCCP106
Course Outcomes (CO) : On Completion of the course, students will be able to

CO1	Find the various agencies of social work settings such as NGO, Governmental agencies, Hospitals and Industries.
CO2	Recognize the fields of social work and apply the methods in the fields.
CO3	Discover the social issues in the field and will be able to give a solution to solve.
CO4	Relate theoretical knowledge into practical exposure.
CO5	Facilitate solution for the social problems in various agencies pertaining to social work.

SECOND SEMESTER

COURSE NAME: SOCIAL GROUP WORK
Course Code : 23PBCCT201
Course Outcomes (CO) : On Completion of the course, students will be able to

Course Outcomes(CO): On completion of the course, students should be able to	
CO1	Relate the basic concepts, characteristics, assumption and philosophy of social group work.
CO2	Enhance the knowledge on theories, models and group dynamics in group work.
CO3	Explore the social group work process, group process and supervision in social group work.
CO4	Focus on the principles of recording in social group work, group therapy and teaching techniques in social group work.
CO5	Assess the skill and role of social group worker in different settings.

COURSE NAME: COMMUNITY ORGANIZATION AND SOCIAL ACTION
Course Code   23PBCCT202
Course Outcomes (CO) : On Completion of the course, students will be able to

Course Outcomes(CO): On completion of the course, students should be able to	
CO1	Enrich the knowledge on philosophy, scope, models and community organization as a method of social work.
CO2	Enhance the knowledge on methods and phases in community organization.
CO3	Assess the skills, characteristics, duties and responsibility of community organization.
CO4	Relate the method of community organization in the fields such as health, correctional, educational, rural and urban, industrial field and disaster.
CO5	Explore principles, scope, models, methods and strategies of social action & social development and enforcement of the social legislation.

Course Outcomes (CO) : On Completion of the course, students will be able to

COURSE NAME: SOCIAL WELFARE ADMINISTRATION
Course Code   : 23PBCCT203

Course Outcomes(CO): On completion of the course, students should be able to	
CO1	Gain knowledge about the importance and scope of social welfare administration
CO2	Enrich knowledge about the role voluntary organizations in social welfare administration.
CO3	Learn the procedures to register an organization
CO4	Acquire knowledge about the social policy.
CO5	Know the concept of project management.

COURSE NAME: SOCIAL WORK RESEARCH AND STATISTICS
Course Code 23PBCCT204
Course Outcomes (CO) : On Completion of the course, students will be able to

Course Outcomes(CO): On completion of the course, students should be able to	
CO1	Recognize the concept, scope, limitation, characteristics, elements of research and scientific methods in social work research.
CO2	Interpret the methods, types, steps in social research and research design.
CO3	Relate sampling types, methods, techniques and procedures in sample selection and use of scaling techniques.
CO4	Scrutinize the data processing, contents of report writing and scale- content analysis.
CO5	Assess the application of statistics in research and use of computer for data analysis.

COURSE NAME: ELECTIVE I – LABOUR WELFARE
Course Code   :   23PBCET205
Course Outcomes (CO) : On Completion of the course, students will be able to

Course Outcomes(CO): On completion of the course, students should be able to	
CO1	Infer the concept, characteristics, absenteeism, labour turnover and factors influencing productivity.
CO2	Enrich the knowledge on the concept, scope, principles and theories labour welfare measures at various levels.
CO3	Recognize the role, functions, duties and responsibilities of labour welfare officer and workers education in national, regional and unit level.
CO4	Explore the industrial health, safety, industrial accidents, environment management system causes and its preventive measures.
CO5	Assess the social security concepts, types, scope, schemes and roles of ILO towards social security.

COURSE NAME: ELECTIVE II - MEDICAL SOCIAL WORK
Course Code   : 23PBCET206
Course Outcomes (CO) : On Completion of the course, students will be able to

Course Outcomes(CO): On completion of the course, students should be able to	
CO1	Realize the basic concepts of health, determinants of health, Indicators of health and concepts & scope of medical social work.
CO2	Recognize the organization and administration of medical social work setting and professional challenges and legal issues in medical social work.
CO3	Relate medical social work intervention & rehabilitation in general hospitals, cancer hospital and multispecialty hospitals.
CO4	Explore the role of medical social worker in dealing with patients and their families.
CO5	Assess the medical social workers role in National and International agencies in the prevention of disease and promotion of health.

COURSE NAME: ELECTIVE I - RURAL COMMUNITY DEVELOPMENT
Course Code :   23PBCCT207
Course Outcomes (CO) : On Completion of the course, students will be able to

Course Outcomes(CO): On completion of the course, students should be able to	
CO1	Facilitation on Basic elements, Characteristics and approaches of Rural Community Development
CO2	Understand the Origin and development of Rural Community Development
CO3	Comprehend the Panchayat Raj system and other administrative aspects related to rural development
CO4	Understand the role of social workers in Sustainable rural community development
CO5	Appraise different programs related to Rural Community Development in India

COURSE NAME :CONCURRENT FIELD WORK PRACTICUM – II
Course Code   : 23PBCCP208
Course Outcomes (CO) : On Completion of the course, students will be able to

Course Outcomes(CO): On completion of the course, students should be able to	
CO1	Relate the theoretical knowledge to implement in practical situation.
CO2	Observe the functions and activities of field work agency.
CO3	Enhance understanding about the problems of Urban/Rural / Tribal Community.
CO4	Relate the skill require to solve the social issues.
CO5	Explore the skills needed to develop the art of writing the narrative and descriptive records.

DEPARTMENT OF COMPUTER SCIENCE (PG)

Programme Outcomes:
At the end of the programme, students will be able to

PO Number	PO Statement
PO1	**Critical Thinking:** Apply the strategies and techniques in order to solve real world problems.
PO2	**Effective Communication:** Communicate the concepts in oral and written form.
PO3	**Social Interaction:** Identify the accurate solutions for the society oriented problems using the domain knowledge.
PO4	**Effective Citizenship:** Attain the ability to identify, formulate and solve challenging problems of the society and nation.
PO5	**Knowledge Formulation:** Demonstrate and apply various specialized areas of advanced topics and its applications using modern tools.
PO6	**Environment and Sustainability:** Instill a sense of attitude in tackling social and environmental issues.
PO7	**Self-directed and Life-long Learning:** Identify their own educational and career needs from the global challenges.

Programme Specific Outcomes:
At the end of the programme, students will be equipped with the Knowledge in

PSO Number	PSO Statement
PSO1	The ability to understand, analyze and develop computer language programs in the areas related to system software, simulation, software design, web development, data analytics, networking, machine language and artificial intelligence.
PSO2	The ability to apply standard practices and strategies in software project development using open-ended programming environments to deliver quality applications for industry.
PSO3	The ability to employ modern computer languages, technologies, environments and platforms in creating innovative career paths to be a teacher, software engineer, an entrepreneur and a zest for research in Computer Science field.
PSO4	Develop ability to work with team, to work as lead with analytical reasoning for solving time critical problems.
PSO5	Develop ability to apply critical thinking in research, experiments, content writing, and to solve modern issues to accomplish education, societal and industrial tasks.

Course Outcomes (CO): On completion of the course, students should be able to
COURSE: CORE I: ANALYSIS & DESIGN OF ALGORITHMS
COURSE CODE: 23PBICT101

CO1	Analyze the time complexity and space complexity of an algorithm
CO2	Implement searching and sorting algorithms in real world problems
CO3	Apply the concept of Greedy method
CO4	Distinguish between greedy method and dynamic programming
CO5	Predict an appropriate algorithm for applications

COURSE: CORE II: ADVANCED JAVA PROGRAMMING
COURSE CODE: 23PBICT102

CO1	Create Applications using Swing Components
CO2	Write distributed applications using RMI
CO3	Establishing Database Connectivity using JAVA
CO4	Implement application using Applets and Servlet
CO5	Apply XML Schemas in web

COURSE: CORE III: ADVANCED DATABASE MANAGEMENT SYSTEMS
COURSE CODE: 23PBICT103

CO1	Improve the database design by Normalization and Parallelism
CO2	Analyze the concepts of transaction management, concurrency control, and reliability in Distributed and object oriented Databases
CO3	Illustrate experiments using XML databases-
CO4	Enforce Integrity constraints in Temporal databases
CO5	Employ Spatial and Multimedia database concepts

COURSE: CORE IV: SOFTWARE PROJECT MANAGEMENT & SOFTWARE ENGINEERING
COURSE CODE: 23PBICT104

CO1	Identify the challenges in Software Development process
CO2	Explain about the Software Requirement Analysis and Specification
CO3	Do the Project planning, tracking, Risk analysis, Quality management and Project Cost estimation using different techniques
CO4	Solve the issues and challenges faced in Software Design Process
CO5	Predict the possible causes of Software failure and knowledge of how to prevent them

COURSE: CORE PRACTICAL I: ADVANCED JAVA PROGRAMMING LAB
COURSE CODE: 23PBICP105

CO1	Handle HTML form data with Java Servlet
CO2	Invoke the remote methods in an application using Remote Method Invocation
CO3	Access database using Java Data Base Connectivity in web applications
CO4	Create dynamic web pages, using Servlets and JSP
CO5	Create an applet application

COURSE: CORE PRACTICAL II: ADVANCED DATABASE MANAGEMENT SYSTEMS LAB
COURSE CODE: 23PBICP106

CO1	Design the database schema with the use of appropriate data types for storage of data in database
CO2	Application of SQL commands
CO3	Implementation of PL/SQL Concepts
CO4	Apply Normalization in database
CO5	Create XML databases

COURSE: CORE V: CRYPTOGRAPHY & NETWORK SECURITY
COURSE CODE: 23PBICT201

CO1	Outline the fundamentals of networks security and security architecture
CO2	Apply the different cryptographic operations of symmetric cryptographic algorithms
CO3	Apply the different key management and secure algorithms
CO4	Apply the various security for Internet Protocol and web applications
CO5	Understand various malicious software's and firewalls

COURSE: CORE VI: ADVANCED OPERATING SYSTEM
COURSE CODE: 23PBICT202

CO1	Create Applications using Swing Components
CO2	Write distributed applications using RMI
CO3	Establishing Database Connectivity using JAVA
CO4	Implement application using Applets and Servlet
CO5	Apply XML Schemas in web

COURSE: CORE VII: ARTIFICIAL INTELLIGENCE & MACHINE LEARNING
COURSE CODE: 23PBICT203

CO1	Explore various heuristics techniques
CO2	Analyze the issues in Knowledge representation
CO3	Apply different types of reasoning
CO4	Apply various algorithms for Learning
CO5	Understand the working pattern of ANN

COURSE: CORE VIII: PYTHON PROGRAMMING
COURSE CODE: 23PBICT204

CO1	Define the structure and components of a Python program
CO2	Use lists, tuples, and dictionaries in Python programs
CO3	Write loops and decision statements in Python
CO4	Design object-oriented programs with Python classes
CO5	Build and package Python modules for reusability

COURSE: ELECTIVE I: DATA MINING
COURSE CODE: 23PBIET207

CO1	Define the steps in KDD process
CO2	Design the schema for Multidimensional Data Model
CO3	Discover interesting patterns from large amounts of dataset
CO4	Describe the classification methods
CO5	Apply data mining techniques in real time applications

COURSE: CORE PRACTICAL III: LINUX LAB
COURSE CODE: 23PBICP209

CO1	Implement the basic set of commands and utilities in Linux/UNIX systems
CO2	Handle signals using the signal library functions
CO3	Implement full duplex communication between two independent processes using FIFO
CO4	Use thread synchronization and counting semaphore in Linux
CO5	Implement CPU Scheduling in Linux

COURSE: CORE PRACTICAL IV: PYTHON PROGRAMMING. LAB
COURSE CODE: 23PBICP210

CO1	Solve mathematical expression using python operators
CO2	Use lists, tuples, and dictionaries in Python programs

CO3	Operate files for storing, manipulating and retrieving purpose
CO4	Identify Python object types
CO5	Create user defined module as per requirement

COURSE: CORE PRACTICAL V: WEB DEVELOPMENT USING ANGULAR JS LAB
COURSE CODE: 23PBICP211

CO1	Create simple application using Angular JS Model and Controllers
CO2	Apply Validation on forms
CO3	Implement Angular JS Events
CO4	Create a CSS Transitions and Animations
CO5	Create database driven web applications

DEPARTMENT OF COMPUTER SCIENCE (PG)

Programme Outcomes:
At the end of the programme, students will be able to

PO Number	PO Statement
PO1	**Critical Thinking:** Apply the strategies and techniques in order to solve real world problems.
PO2	**Effective Communication:** Communicate the concepts in oral and written form.
PO3	**Social Interaction:** Identify the accurate solutions for the society oriented problems using the domain knowledge.
PO4	**Effective Citizenship:** Attain the ability to identify, formulate and solve challenging problems of the society and nation.
PO5	**Knowledge Formulation:** Demonstrate and apply various specialized areas of advanced topics and its applications using modern tools.
PO6	**Environment and Sustainability:** Instill a sense of attitude in tackling social and environmental issues.
PO7	**Self-directed and Life-long Learning:** Identify their own educational and career needs from the global challenges.

Programme Specific Outcomes:
At the end of the programme, students will be equipped with the Knowledge in

PSO Number	PSO Statement
PSO1	The ability to understand, analyze and develop computer language programs in the areas related to algorithms, system software, simulation, software design, web design, big data analytics and networking for efficient design of computer-based systems of varying complexity.
PSO2	The ability to apply standard practices and strategies in software project development using open-ended programming environments to deliver quality applications for business success.
PSO3	The ability to employ modern computer languages, technologies, environments and platforms in creating innovative career paths to be a software engineer, an entrepreneur and a zest for research in Computer Science field.
PSO4	Develop ability to work with team, to work as lead with analytical reasoning for solving time critical problems.
PSO5	Develop ability to use research, experiment, contemporary issues to accomplish societal and industrial tasks.

Course Outcomes (CO): On completion of the course, students should be able to

COURSE: CORE I: COMPUTERARCHITECTURE

COURSE CODE: 23PBKCT101

CO1	Draw combinatorial circuits using various basic gates
CO2	Simplify the Boolean expressions using Karnaugh Map
CO3	Write micro operations and instructions for ALU
CO4	Categorize and apply different addressing modes and instruction formats
CO5	Explore the hardware and software structure of different types of memories

COURSE: CORE II: DATA STRUCTURES

COURSE CODE: 23PBKCT102

CO1	Choose an appropriate data structure for an application
CO2	Utilize linked list concepts in various applications
CO3	Explain the representation of Stacks, Queues and Graphs
CO4	Discuss the operations on Trees and Graphs
CO5	Apply the concept of searching and sorting in the real world problems

COURSE: CORE III: RELATIONAL DATABASE MANAGEMENT SYSTEMS

COURSE CODE: 23PBKCT103

CO1	Explain the features of database management systems
CO2	Design relational models for real life applications and also construct queries with constraints and keys using SQL
CO3	Apply the concept of transaction, concurrency control and recovery mechanism in database.
CO4	Identify the use of normalization and functional dependency in database design
CO5	Discuss the architecture for Parallel, Distributed and Object Database Systems

COURSE: CORE IV: JAVA PROGRAMMING
COURSE CODE: 23PBKCT104

CO1	Define the program structure
CO2	Represent programming logics using operators, controls, loops and arrays
CO3	Utilize the concepts of inheritance and exceptions in the programs and handle files.
CO4	Explain the String functions and to handle files
CO5	Define how image and regular expression are implemented in GUI

ELECTIVE I – CLOUD COMPUTING
COURSE CODE: 23PBKET105

CO1	Explain the concepts of Cloud Computing, Architecture and deployment models
CO2	Utilize the Cloud Service models in application development
CO3	Describe Virtualization and cloud-aware SaaS applications / PaaS technology
CO4	Handle the services offered by Cloud service providers
CO5	Discuss the security issues in cloud

COURSE: CORE PRACTICAL I: DATA STRUCTURES LAB USING JAVA
COURSE CODE: 23PBKCP109

CO1	Implement Hash table and Array structure to produce List, Stack and Queue structures
CO2	Use recursive and non-recursive functions to implement tree traversals
CO3	Apply appropriate Searching and Sorting Methods for a given list of items
CO4	Create an applet application to demonstrate an Image and Pattern Matching
CO5	Invoke the remote methods in an application using Remote Method Invocation

COURSE: CORE PRACTICAL II: RELATIONAL DATABASE MANAGEMENT SYSTEMS LAB
COURSE CODE: 23PBKCP110

CO1	Draw Entity-Relationship Diagram for the database systems
CO2	Implement the DML , DDL, DCL and TCL Commands
CO3	Build a database system using Views and SET Operators
CO4	Implement PL/SQL Controls, Procedures and Packages
CO5	Implement PL/SQL Triggers and Cursors

COURSE: CORE PRACTICAL III: DATA VISUALIZATION LAB
COURSE CODE: 23PBKCP111

CO1	Compute Mathematical functions in Excel
CO2	Formulate Statistical functions in Excel
CO3	Create dashboard to visualize data in real life applications
CO4	Analyze data through pivot table
CO5	Convert unstructured file to structured file

Course Outcomes (CO): On completion of the course, students should be able to
COURSE: CORE V: OPERATING SYSTEMS
COURSE CODE: 23PBKCT201

CO1	Define the basic features of operating system
CO2	Explore process scheduling algorithms
CO3	Handle the deadlock conditions during Multi process scheduling
CO4	Apply the memory management allocation strategies
CO5	Describe the concept of file-system interface and implementation

COURSE: CORE VI: .NET PROGRAMMING
COURSE CODE: 23PBKCT202

CO1	Explain the architecture of .NET framework and object oriented programming concepts
CO2	Understood the basic programming concepts of C#
CO3	Know the data accessing with database
CO4	Develop the web applications using ASP.NET through C#
CO5	Create ASP.NET applications using standard .NET controls

COURSE: CORE VII: COMPUTER NETWORKS
COURSE CODE: 23PBKCT203

CO1	Outline the fundamental components and explain the functions of physical layer
CO2	Apply different techniques in error detection and correction during data transmission
CO3	Discuss how routing protocols works in network layer
CO4	Know about the Working Process of TCP and UDP in transport layer
CO5	Describe about the DNS, e-mail and WWW used in application layer

COURSE: CORE VIII: SOFTWARE ENGINEERING
COURSE CODE: 23PBKCT204

CO1	Compare and apply the suitable software design model for the particular task
CO2	Gather the requirements for the software project and do validation
CO3	Design architectural and UML model for the projects
CO4	Apply suitable testing methods to proof the software free of error
CO5	Work with team and be able to manage teams

ELECTIVE II – BUSINESS INTELLIGENCE
COURSE CODE: 23PBKET207

CO1	Remember and view the basics of business view & IT, digital data structure and OLTP
CO2	Elucidate the definition of business intelligence and basics of data integration programming logics using controls, loops and arrays

CO3	Comprehend the data modeling, metrics and performance Management
CO4	Understand and prepare the reports using statistical methods
CO5	Present the applications of analytics and further movement of BI

COURSE: CORE PRACTICAL IV: LINUX LAB
COURSE CODE: 23PBKCP209

CO1	Demonstrate the Linux commands and file handling utilities by using Linux shell environment.
CO2	Evaluate the concept of shell scripting programs by using an AWK commands.
CO3	Create, change and remove the directory
CO4	Illustrate the concept of client-server communication
CO5	Implement CPU Scheduling

COURSE: CORE PRACTICAL V: .NET PROGRAMMING LAB
COURSE CODE: 23PBKCP210

CO1	Implement conditional statements and namespace in C# console
CO2	Create and declare delegates and interfaces in C# console
CO3	Implement various ASP.NET standard controls for different applications
CO4	Design and develop web applications using ADO.NET
CO5	Create database driven ASP.NET web applications

COURSE: CORE PRACTICAL VI: WEB DESIGNER LAB
COURSE CODE: 23PBKCP211

CO1	Design online real time web advertisement
CO2	Incorporate animation in web advertisements
CO3	Create websites with images and Videos
CO4	Insert customized maps in the web pages
CO5	Draw workflow design for the ads and WebPages of a website

Sem.	Course Code	MANAGEMENT CONCEPTS AND ORGANISATIONAL BEHAVIOUR	Total Marks:100		Hours Per Week	Credits
I	23PBDCT101		CIA: 25	ESE: 75	4	4

Course Objectives:

1. To enable the students to understand through and systematic coverage of management and organizational behaviour.
2. To understand the Management planning, organizing, staffing, directing and control.
3. To learn the fundamental knowledge and exposure of concepts, theories and practices in the field of management and organizational behaviour.

Course Outcomes (CO): On completion of the course, students should be able to

CO1	Acquire the fundamental concepts of management.	
CO2	Outline the organization structure and delegation of authority.	
CO3	Identify the basis on staffing, directing and controlling.	K1-K6
CO4	Analyze the concepts of organizational behaviour.	
CO5	Asses the basis on organisation culture and development.	

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

Unit –I	**Management and Planning**

Management - Nature and Importance of Management - Administration and Management - Levels of Management - Management a Science or an Art - Planning: Nature - Steps - Types - Decision making - Importance - Process - Types of Decision.

Unit – II	**Organising**

Organising - Nature - Importance - Process - Principles - Forms of Organisation Structure - Formal and Informal Organisation - Basis of Departmentation - Span of Management - Types and Factors affecting Span of Management - Delegation of Authority.

Unit – III	**Staffing, Directing and Controlling**

Staffing: Nature - Process - Directing - Principles - Elements of direction - Coordination - Need and Importance - Techniques for effective Coordination - Controlling - Nature and Process of Controlling - Essentials of effective Control System - Types of Control - Techniques of Control.

Unit – IV	Organizational Behaviour
Organizational Behaviour: Nature - Elements - Importance - Personality - Factors - Types - Perception - Process - Factors affecting perception - Attitude – Sources - Motivation - Theories of Motivation- Types - Group - Characteristics and types of group - Stages of group development - Group norms.	

Unit – V	Organisation Culture and Development
Power - Politics – Nature - Organization culture - Sources - Importance - Functions – Organization Development - Counseling - Objectives - Characteristics - Functions of Counselor - Counseling Process - Types – Merits of counseling.	

TEXT BOOKS

1	Harold Koontz and Heinz Weihrich, "Essentials of Management", 9th Edition, 2013, Tata McGraw Hill Publishing Company Ltd, New Delhi. (UNIT 1 to 3)
2	Robbins.S.,Timothy.A.Judge, Vohra Nehrika, "Organisational Behaviour", 14th Edition, 2012, Prentice-Hall, India. (UNIT 4 & 5)

REFERENCE BOOKS	
1	P.N.Reddy, P.C.Tripathi and H.R.Appannaiah, "Essentials of Management", 10th Edition, 2000, Himalaya Publishing House Private Ltd, Mumbai.
2	L.M.Prasad, "Principles and Practices of Management", 2005, Sultan Chand & Sons Private Ltd, New Delhi.
3	Umasekaran, "Organisational Behaviour: Text and Cases", 2nd Edition, 2007, Tata McGraw Hill Publishing Company Ltd. New Delhi.
4	Luthans Fred. "Organizational Behaviour", 10th Edition, 2005, Tata McGraw-Hill Publishing Company Ltd. New Delhi.

Course Designed By	Verified By	Approved By HOD
Dr.R.VIJAYAPRIYA	Dr.G.KARTHI	Dr.V.G.SUMATHY

QUESTION PAPER PATTERN		
SECTION – A	**SECTION – B**	**SECTION – C**
10 X 1 = 10 Marks Answer ALL the questions Choose the correct answer	5 X 5 = 25 Marks Answer ALL the questions Either or type Two questions from each unit	5 X 8 = 40 Marks Answer ALL questions Question Number: 16 to 19 (Either or type) Question Number 20 is Compulsory- Case Study

Mapping of COs with POs and PSOs:

PO/PSO CO	PO							PSO				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO1	S	M	S	M	M	L	M	S	M	M	M	S
CO2	S	S	S	M	M	L	M	S	L	M	S	S
CO3	S	S	S	L	S	M	M	S	S	M	S	S
CO4	M	S	S	L	S	M	S	S	S	S	S	S
CO5	S	S	S	L	S	L	S	S	L	S	S	S

S - Strong, M - Medium, L – Low

3

Sem.	Course Code	BUSINESS ENVIRONMENT	Total Marks:100		Hours Per Week	Credits
I	23PBDCT102		CIA: 25	ESE: 75	4	4

Course Objectives:

1. To impart students knowledge of various aspects of internal and external environment of business.
2. To understand the business and society, World trade organisation and Global business.
3. To learn a deeper understanding of the business environment and recent trends in present scenario.

Course Outcomes (CO): On completion of the course, students should be able to

CO1	Acquire the basis on various business environment.	
CO2	Outline the awareness about internal and external environment.	
CO3	Analyze the concepts on economic, political and technological environment.	**K1-K6**
CO4	Identify the factors influencing business ethics.	
CO5	Evaluate the various stakeholder responsibilities towards business and CSR.	

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

Unit –I	**Business Environment**

Introduction to business environment - Nature - Importance - Environmental Analysis – Process of environmental Analysis – Factors affecting environmental analysis - Benefits - Challenges of business environment - Recent trends in business environment.

Unit – II	**Internal and External Environment**

Business environment – Types of business environment – Internal environment – Components – External environment – Micro environment – Macro environment – Factors of Macro environment - PESTLE.

Unit – III	**Economic, Political and Technological Environment**

Economic Environment – Nature – Structure of economy – Economic policies and Conditions - Environmental Pollution - Sources – Types of pollution – Measures to control environmental pollution - Political environment - Nature – Political system - Technological environment – Impact of technological environment.

Unit – IV	**Business Ethics**

Business ethics – Nature of ethics - Elements of business ethics – Sources – Objectives of business ethics – Principles – Factors influencing business ethics- Types of ethics – Ethical values in bhagavad Gita.

Unit – V	**Business and Society**

Business and Society – Social responsibility of business – Responsibilities of stakeholders –Barriers to social responsibility – Corporate social responsibility – CSR stakeholders – Elements - Process of CSR – Benefits – Key issues in CSR.

TEXT BOOK

1	Francis Cherunilam, "Business Environment - Text and Cases", 12th Edition, 2011, Himalaya Publishing House Private Limited, Mumbai. (UNIT 1 to 3 & 5)
2	R.V.Badi and N.V.Badi, "Business Ethics", 6th Edition, 2010, Vrinda Publications Private Limited, New Delhi. (UNIT 4)

REFERENCE BOOKS	
1	Ashish Bhalla, "Business Environment", 1st Edition, 2011, Vayu Education of India, New Delhi.
2	P.V Khatri, J.S.Kadyam, M.S.Rashmi, "Business Environment, 2nd Edition, 2015, Global Academic Publishers & Distributors, New Delhi.
3	Francis Cherunilam, "International Business - Text and Cases", 4th Edition, 2008, Prentice Hall India Private Limited, New Delhi.

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Dr.G.KARTHI	Dr.R.VIJAYAPRIYA	Dr.V.G.SUMATHY

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CO1	S	M	S	L	M	S	M	S	L	M	M	S
CO2	S	M	S	L	M	S	M	S	M	M	S	S
CO3	S	S	S	L	S	S	M	L	S	M	S	S
CO4	M	S	M	M	S	L	L	S	L	M	M	M
CO5	M	S	M	M	S	L	M	S	M	L	M	S

S - Strong, M - Medium, L – Low

Sem.	Course Code	MANAGERIAL ECONOMICS	Total Marks:100		Hours Per Week	Credits
I	23PBDCT103		CIA: 25	ESE: 75	4	4

Course Objectives:

1. Communicate the economic principles and policies on managerial decision making.

2. Learn demand, supply, cost and pricing concepts and functions along with its applications.

3. To learn inflation, deflation and balance of payment on national income.

Course Outcomes (CO): On completion of the course, students should be able to

CO1	Outline the basic concepts of economics and its role in business decision making.	
CO2	Explain the demand determinants on managerial decisions.	
CO3	Identify the relationship between Supply and cost concept.	**K1-K6**
CO4	Formulate competitive pricing strategies according to the nature of market.	
CO5	Analyze the macroeconomic concepts & their relation to micro economic concept & how they affect the business & economy.	

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

Unit –I	**Managerial Economics & Decision Making**

Managerial Economics - Nature and Scope - Fundamental Concepts -Managerial Economics and Decision Sciences –Nature of Managerial decision making – Types of business decision –Managerial decision making process- Objectives of a firm.

Unit – II	**Demand**

Demand Analysis - Determinants - Function - Law of Demand –Exceptions to the law of Demand- Elasticity of Demand -Types – Uses - Elasticity of Demand and managerial decision making - Demand Forecasting –Meaning –Significance –Techniques.

Unit – III	**Supply and Production**

Supply Analysis - Determinants - Law of Supply - Elasticity of Supply –Analysis and its uses for managerial decision making- Production Decisions - Production Functions : Isoquants, Expansion Path - Cobb-Douglas Function- Cost Concepts :Cost ,Output Relationship ,Economies and Diseconomies of Scale, Cost Functions.

Unit – IV	Market Structure and Pricing

Market Structure- Perfect Competition, features, determination of price under perfect competition- Monopoly - Features, pricing under monopoly, Price Discriminating monopoly- Monopolistic: Features, pricing under monopolistic competition. Oligopoly: Features, kinked demand curve.

Unit – V	Macro Economics

National Income - Concepts and various methods of its measurement, Inflation - types - causes, Deflation – Reasons - Measures to overcome deflation -Business Cycle – Phases –Monetary Policy –Repo rate and Reverse Repo Rate –   Monetary Policy: Meaning, Definition, Objectives. Fiscal Policy: Meaning, Definition, Objectives.

TEXT BOOKS

1	Mehta,P.L., "Managerial Economics Analysis, Problems, Cases", 20th Edition, 2014, Sultan Chand & Sons, New Delhi. (UNIT-II ,III & IV)
2	Dr. Ahhuja.H.L,Managerial Economis ,Analysis of Managerial Decision making,8th Revised Edition,2014,S.Chand Publishing, New Delhi. (UNIT-I &V)

REFERENCE BOOKS	
1	N. Gregory Mankiw, "Principles of Economics" 7th Edition, 2015,cengage publication.
2	Varshiney, R.L. & Maheshwari. K.L., "Managerial Economics", 22nd Edition, 2014, Sultan Chand & Sons, New Delhi.
3	Arpit Holdia ,Mohd .Salim, " GST Law & Practice", 2021 Edition, Taxmann.

Course Designed By	Verified By	Approved By HOD
Mrs.P.ANCHANA KIRUTHIKA	Dr.R.VIJAYAPRIYA	Dr.V.G.SUMATHY

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CO4	S	M	M	S	M	S	S	S	M	M	S	S
CO5	M	S	S	M	M	M	S	S	S	S	M	S

S - Strong, M - Medium, L - Low

Sem.	Course Code	ACCOUNTING FOR MANAGERS	Total Marks:100		Hours Per Week	Credits
I	**23PBDCT104**		**CIA : 25**	**ESE :75**	**5**	**4**

Course Objectives:

1. Introduce the basic concepts of Accounting.
2. Prepare and analyze a financial statement and assist in management decision making.
3. Apply the knowledge of management and cost accounting in varied situations.

Course Outcomes (CO): On completion of the course, students should be able to

CO1	Acquire the fundamental principles of accounting.	
CO2	Prepare analysis and interpret various financial statement.	
CO3	Evaluate cost effectiveness by using the tools of cost accounting.	**K1- K6**
CO4	Formulate and Assess various budgets.	
CO5	Critique marginal cost techniques in decision making.	

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

Unit –I	**Introduction to Accounting and Financial Statement**

Accounting: Meaning - Objectives - Concepts and Conventions of Accounting - Overview of IFRS. Understanding Basic Financial Statements : Profit and Loss Statements, Balance sheet- Preparation of final accounts **(simple problems with adjustment).**

Unit – II	**Financial Statement Analysis**

Financial Statements analysis: Meaning - Objectives. Techniques of Financial Statement Analysis: Comparative Statement Analysis, Common Size Statements, Trend Analysis. Ratio Analysis: Classification of Ratios - Profitability Analysis, Liquidity Analysis and Solvency Analysis. **(Problems on computation and interpretation of Accounting Ratios).**

Unit – III	**Fund Flow and Cash Flow Analysis**

Fund Flow Statement: Preparation of Statement of change in working capital, Computation of fund from operation and preparation of fund flow statement. Cash flow statement: computation of cash from operations, Preparation of cash flow statement. Distinction between Fund flow statements and cash flow statement- Advantages of Fund flow statement and Cash flow statement. **(Basic Problems in cash flow or Fund flow statement).**

Unit – IV	Cost Accounting and Marginal Costing
Cost Accounting: Meaning and Objectives - Classification and Elements of Costs - Preparation of Cost Sheet Breakeven point Analysis - Cost Volume Profit Analysis - Application of Marginal Costing Techniques in Managerial Decision Making. (**Problems on application of Marginal costing).**	

Unit – V	Budget and Budgetary control
Budget and Budgetary Control: Types of Budgets - Preparation of Cash Budget, Sales Budget, Production Budget and Flexible Budget **(Problems)** – Concept of Zero based budgeting.	

80% of the questions shall be problems and the remaining 20% of the questions shall be theory based.

TEXT BOOK

1	S.N. Maheshwari, Suneel K Maheshwari, Sharad K Maheshwari, "A Textbook for Accounting for Management" Vikas Publishing House Pvt Ltd (3rd Edition), 2012.

REFERENCE BOOKS

1	Gordan & Sundram, **"**Management Accounting "Himalaya Publication.
2	Reddy & Murthy **"**Financial and Management accounting**",** Margham publication.
3	Marc Wouters, Ronald W. Hilton, Frank H. Selto, Michael W. Maher, "Cost Management: Strategies for Business Decisions" McGraw-Hill Higher Education, 2012.

Course Designed By	Verified By	Approved By HOD
Dr.V.G.SUMATHY	Dr.R.VIJAYAPRIYA	Dr.V.G.SUMATHY

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CO3	M	M	S	S	S	M	S	S	S	S	S	S
CO4	S	S	S	S	S	M	S	S	S	S	S	S
CO5	M	M	M	M	M	M	S	S	M	S	M	S

S - Strong, M - Medium, L – Low

Sem.	Course Code	QUANTITATIVE METHODS	Total Marks:100		Hours Per Week	Credits
I	**23PBDCT105**		CIA : 25	ESE :75	**5**	**4**

Course Objectives:

To make the students identify, diagnose problems and select the necessary tools in statistics so as to enable them to resolve complex decision making problems in business.

Course Outcomes (CO): On completion of the course, students should be able to

CO1	Understand the basic concepts of statistics and data display.	
CO2	Calculate measures of central tendency.	
CO3	Know about the basic concepts of measures of dispersion.	**K1- K6**
CO4	Determine and apply the Correlation and Regression Coefficients.	
CO5	Gain knowledge in the concepts of Index numbers and time series analysis.	

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

Unit –I	**Importance, Functions, Limitations**

Importance - Statistics in States - Statistics in Economics - Statistics in Astronomy - Statistics in education - Statistics in Accounting and Auditing - Statistics in Research - Statistics in Planning. Functions of Statistics - Limitations of Statistics. Diagrammatic Representation - Graphic Representation.

Chapter 2 : Page No. 13 – 20, Chapter 7 : Page No. 84 -100,Chapter 8 : Page No. 101 – 120.

Unit – II	**Measures of Central Tendency**

Meaning - Definitions - Functions of an average - Arithmetic Mean - Median – Quartiles – Deciles - Percentile -Mode - Relationship between different averages.

Chapter 9: Page No. 121-178.

Unit – III	**Dispersion**

Definition - Concept of variations - Purpose of measuring variation – Properties of good measure of variation - Absolute and relative measure of variation- Method of measuring dispersion -Range- Inter quartile range - Quartile Deviation - Standard Deviation-Coefficient of Variation.

Chapter 10: Page No. 229 -239, 249 -259, 272-285.

Unit – IV	**Correlation and Regression**

Correlation: Definition -Types of correlations - Karl Pearson's coefficient of Correlation. Regression: Definition - Uses of Regression analysis - Difference between correlation and Regression - Regression equations of X on Y and Regression equations of Y on X.

 Chapter 12: Page No. 359-377, Chapter 13: Page No. 425- 476.

Unit – V	**Index Numbers and Analysis of Time Series**

Index Numbers: Uses - Characteristics of Index Numbers-Types of Index Numbers - Notations -

Un weighted and Weighted Index Numbers - Quantity index numbers.

Analysis of Time Series - Meaning -Definitions -Uses - Time Series Model - Secular Trend - Seasonal Variation - Cyclical Variation -Irregular Variations - Measurement of secular trend- Moving average method - Method of least Square.

Chapter 14: Page No. 477- 496, Chapter 15: Page No. 545 – 565.

80% of the questions shall be problems (simple business application problems) and the remaining 20% of the questions shall be theory based.

TEXT BOOK

1	R.S.N Pillai and V.Bagavathi "Statistics" First Edition, 1984,Reprint 1999 S.Chand & Company, New Delhi.

REFERENCE BOOKS

1	Gupta, S.C and Kapoor, V.K, "Fundamentals of Mathematical Statistics", 11th Edition2007, Sultan Chand & Sons, New Delhi.
2	P.R.Vittal ,"Business Mathematics and Statistics",6th Edition ,2004 ,MarghamPublications, Chennai.

Course Designed By	Verified By	Approved By HOD
Mr.P.MAHESH KUMAR	Ms.C.RADHAMANI	Dr.S.NAGARAJAN

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CO3	S	S	S	M	M	M	S	S	S	M	M	M
CO4	S	S	S	M	M	M	S	S	M	M	M	M
CO5	S	S	S	M	M	M	S	S	M	M	M	M

S - Strong, M - Medium, L – Low

Sem.	Course Code	CORPORATE COMMUNICATION	Total Marks:100		Hours Per Week	Credits
I	**23PBDCT106**		**CIA: 25**	**ESE: 75**	**4**	**4**

Course Objectives:

1. To inculcate students on relevant, practical and applicable business communication skills.
2. To improve the student's self-confidence to express themselves in the professional business environment.
3. To train the students in the preparation of various reports, business presentations and resume and job applications and attending employment interviews.

Course Outcomes (CO): On completion of the course, students should be able to

CO1	Identify the basic principles of communication in business environment.	
CO2	Communicate with modern business and employment correspondence.	
CO3	Prepare the business reports in appropriate organizational formats.	**K1-K6**
CO4	Prepare and design presentations, participate effectively in public speaking with interpersonal skills.	
CO5	Acquire knowledge and understanding of diversity and inclusion in the workplace.	

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

Unit –I	**Basics of communication**

Business Communication: Meaning – components - Significance for Management -types - Media -Barriers to Communication - Principles of Effective Communication- Work team communication - Cross cultural communication.

Unit – II	**Understanding corporate communication**

Business Correspondence - Norms for Business Letters - Drafting Enquiry letters - Collection letters - Sales Promotion letters – Employee communication - Preparing Minutes and Resolutions – Handling online meetings - Employment communication: preparing Resumes and Job applications - E mail and Social Media Etiquettes for Business Communication.

Unit – III	**Report Writing**

Report writing: Characterizing & business reports – Types and forms & reports – Project proposals – collection of data – Tables constitution – charts – writing the report – documenting the sources – proof reading.

Unit – IV	Business Presentations

Business Presentation: work – team presentation – Delivering the business presentation visual aids – slides – electronic presentation – hand-outs – career planning – preparation for a job interview – Group discussions.

Unit – V	Non verbal communication

Non-verbal communication: Personal Appearance - Posture - Body Language, Contemporary issues in Business communication: Ethics and communication - Communicating in diverse environment.

TEXT BOOK

1	Rajendra Pal and J. S. Korlhalli, "Essentials of Business Communication" 10th Edition, 2014, Sultan Chand & Sons, New Delhi.

REFERENCE BOOKS

1	Taylor Shirley, "Model Business Letters, Emails and Other Business Documents", 7th Edition, Pearson Education India, New Delhi.
2	Sharma R.C. and Krishna Mohan, "Business Correspondence and Report Writing - A practical approach to business and technical communication", 4th Edition, Tata McGraw-Hill, New Delhi.
3	Scot Ober "Effective Business Communication" First India Edition 2011, Cenage Learning India Private Limited, New Delhi.

Course Designed By	Verified By	Approved By HOD
Dr.V.G.SUMATHY	Dr.R.VIJAYAPRIYA	Dr.V.G.SUMATHY

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Mapping of COs with POs and PSOs :

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	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
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CO2	S	S	M	L	M	M	S	S	S	M	M	S
CO3	M	S	M	M	M	M	M	S	S	M	M	M
CO4	S	S	M	M	M	M	L	S	S	S	L	M
CO5	M	S	M	L	M	M	M	M	M	M	M	M

S - Strong, M - Medium, L – Low

Sem.	Course Code	MANAGEMENT PRACTICES	Total Marks: 50		Hours Per Week	Credits
I	23PBDCV107		CIA: 20	ESE: 30	2	2

COURSE OBJECTIVE:

This course is designed to groom the students with personality skills. The course would facilitate in eradicate stage fear, building self confidence, personality grooming, etc. This provides a platform for students to learn and update themselves on improving their communication and personality skills.

ACTIVITIES: 1.Case Study 2. Group Discussion, 3. Role play, 4. Management Games, 5. Management Quiz, 6. Story telling .

Total Marks: 50 (CIA: 20 Marks, ESE: 30 Marks)

1. **Distribution of Internal Marks (CIA)**

S.No.	Parameters	Maximum Marks
1.	Preparation of Case Study / Group Discussion / Role playing	10
2.	Innovative Concepts and Ideas	5
3.	Audio Visual Presentation	5
	Total	**20***

2. **Distribution of External Marks (ESE)**

S.No.	Parameters	Maximum Marks
1.	Viva voce	30
	Total	**30***

* Evaluated by Internal and External Examiners.

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CO4	S	S	S	S	S	M	S	S	S	S	S	S
CO5	M	M	M	M	M	M	S	S	M	S	M	S

S - Strong, M - Medium, L - Low

Course Designed By	Verified By	Approved By HOD
Dr.V.G.SUMATHY	Dr.R.VIJAYAPRIYA	Dr.V.G.SUMATHY

Sem.	Course Code	PRODUCTION AND MATERIALS MANAGEMENT	Total Marks:100		Hours Per Week	Credits
II	23PBDCT201		CIA: 25	ESE: 75	4	4

Course Objectives:

1. To enable the students to understand the principles, practices and areas of application in Production Management.

2. To learn the knowledge on various production systems, processes and inventory management.

3. To understand the material management and inventory control in production.

Course Outcomes (CO): On completion of the course, students should be able to

CO1	Acquire the basis on production management.	
CO2	Outline the awareness about product design, location and layout.	
CO3	Design and apply the production planning and control.	**K1-K6**
CO4	Analyze on material management and inventory control.	
CO5	Asses the modern production management tools and quality certifications.	

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

Unit –I	Production Management

Production Management: Objectives - Nature - Scope - Importance and Functions of production management - Historical contributions - Role and Functions of production manager - Production system - Classification of Production system.

Unit – II	Product design and Layout

Product design - Steps - Factors affecting product design - Process selection - Selection decisions - Location Decision - Factors Affecting Location Decision - Plant Layout - Objectives - Factors affecting Layout - Types.

Unit – III	Production planning and control

Production planning and control - Characteristics - Functions - Factors affecting production planning and control - Aggregate planning - Master Production Schedule (MPS) - Material Requirement Planning (MRP) – Bill of Material - Steps - Capacity Requirement Planning – CRP System.

Unit – IV	**Material management**

Material management - Objectives - Features - Scope - Functions of material management - Inventory Control – Types of Inventory - Cost associated with inventory - Functions of inventory control - Inventory control techniques: Economic Order Quantity (EOQ) - ABC Analysis (Simple problems).

Unit – V	**Modern Production Management**

Modern Production Management Tools - Just in Time (JIT) - Components of JIT - KANBAN – Types of KANBAN - International Organization for Standardization (ISO) - ISO Registration Process - Types of ISO Quality Certifications -   Six Sigma - Elements in six sigma - Stages of Six sigma process – Benefits of six sigma.

TEXT BOOK

1	P. Saravanavel & S. Sumathi, "Production and Materials Management", 2nd Reprint Edition 2011, Margham Publications, Chennai.

REFERENCE BOOKS

1	R.Paneerselvam, "Production and Operations Management", 2nd Edition, 2008, Prentice Hall of India (P) Limited, New Delhi.
2	S.N.Chary, "Production and Operations Management - Theory and Problems", 3rd Edition 2007, Tata McGraw Hill publication, New Delhi.

Course Designed By	Verified By	Approved By HOD
Dr.G.KARTHI	Dr.R.VIJAYAPRIYA	Dr.V.G.SUMATHY

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Mapping of COs with POs and PSOs :

CO \ PO/PSO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	S	M	S	L	M	L	M	S	L	M	M	S
CO2	S	M	S	M	M	M	M	S	M	M	S	S
CO3	S	S	S	M	S	L	S	M	S	M	S	S
CO4	M	S	M	M	S	M	L	S	L	M	M	M
CO5	M	S	M	L	S	M	S	S	S	L	M	S

S - Strong, M - Medium, L – Low

Sem.	Course Code	MARKETING MANAGEMENT	Total Marks:100		Hours Per Week	Credits
II	23PBDCT202		CIA: 25	ESE: 75	4	4

Course Objectives:

1. Compile the concepts, principles and decision that underlie all activities.
2. Develop the planning and analytical skills necessary for a holistic marketing approach.
3. Build critical analysis and creative communications skills among students to help them in identifying key issues.

Course Outcomes (CO): On completion of the course, students should be able to

CO1	Outline the key marketing concepts and techniques to analyze a variety of marketing situations.	
CO2	Assess market segmentation and targeting to build knowledge on consumer Behaviour.	
CO3	Identify the marketing strategies based on product, price, place and promotional objectives.	**K1- K6**
CO4	Articulate the knowledge on various Promotional tools.	
CO5	Describe knowledge about emerging trends in marketing in a global perspective.	

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

Unit –I	**Basics of Marketing**

Marketing: Meaning - Scope – Core marketing concepts- New marketing realities- The holistic marketing Concept - Components of Marketing Mix - Functions of Marketing – Marketing Organisations - Marketing Environment - Marketing Information System.

Unit – II	**Buyer Behavior and Product Decision**

Buyer Behavior - Factors Influencing Buyer Behavior - Stage in Buying Decision Process. Market Segmentation - Market Targeting - Positioning and Differentiation Strategies. Product Decision - Concept of Product - Product Mix Decisions - Steps in New Product Development- Stages in Product Life Cycle – Packaging,Labeling,warranties and Guarantees.

Unit - III	**Pricing and Distribution Decision**

Pricing Decision - Importance - Pricing Objectives - Factors Influencing Price determination- Methods of Setting Pricing -   Distribution Channels -Factors in Distribution Channel - Functions and Flows - Channel Design – Channels Selection - Training - Motivation and Evaluation of Channel Members.

Unit – IV	Promotion Decision

Promotion Decision - Promotion Mix – Advertising- objectives- types- Personal Selling objectives –process - Sales Promotion – Importance- tools - Public Relations -Objectives – Methods - Direct Marketing - Sales force Design -Objectives - Structure.

Unit – V	Recent Marketing Concepts

Marketing of Non- business organization –Issues In Marketing: Social, Ethical And Legal Aspects of Marketing - Global aspects of marketing- International Marketing-Scope, Environment of International Marketing, Introduction, importance and benefits of Green Marketing, Digital Marketing: Introduction. Importance ,Types-Relationship Marketing: Customer retention, Customer Loyalty, Rural Marketing,: Nature, Scope, Characteristics and Social Media Marketing: Meaning, history and Importance.

TEXT BOOKS

1	Philip Kotler, Kevin Lane Keller, "Marketing Management" 15th Edition, 2016, Pearson Education Limited, Noida (UNIT I To IV)
2	Joel R.Evans,Barry Berman, Marketing , Marketing in the 21st century ,10th edition, 2006. Thomson Publications (UNIT – V)

	REFERENCE BOOKS
1	V.S Ramasamy & S. Namakumari, "Marketing Management: Global Perspective Indian Context" , 5th Edition, 2013, Macmilan Publishers India Ltd, Chennai.
2	RajanSexena, "Marketing Management", McGraw Hill (5th Edition) 2017.
3	Dr.C.B.Gupta & Dr.N.Rajan Nair, "Marketing Management", 19th Edition, 2020, Sultan hand & Sons, New Delhi.

Course Designed By	Verified By	Approved By HOD
Mrs.P.ANCHANA KIRUTHIKA	Dr.V.G.SUMATHY	Dr.V.G.SUMATHY

QUESTION PAPER PATTERN		
SECTION – A	**SECTION – B**	**SECTION – C**
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Mapping of COs with POs and PSOs:

PO/PSO CO	PO							PSO				
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CO4	S	S	M	S	M	M	S	S	M	S	S	S
CO5	S	M	S	S	M	M	S	S	M	M	M	S

S - Strong, M - Medium, L – Low

Sem.	Course Code	FINANCIAL MANAGEMENT	Total Marks:100		Hours Per Week	Credits
II	**23PBDCT203**		**CIA : 25**	**ESE :75**	**5**	**4**

Course Objectives:
1. To learn the various functions of financial management along with their application.
2. To learn capital budgeting and cost of capital.
3. To understand capital structure, dividend policy and working capital management.

Course Outcomes (CO): On completion of the course, students should be able to	

CO1	Outline various functions of financial management.	
CO2	Apply and analysis the techniques of investment decision.	
CO3	Compute and evaluate various cost of capital.	**K1- K6**
CO4	Formulate the capital structure and dividend policy of the firm.	
CO5	Evaluate and compute working capital requirements.	

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

Unit –I	Introduction

Overview and Scope of Financial Management: Objectives - Organisation of Finance function. Time Value of Money- Risk-Return relationship - Emerging role of Finance Managers in India- Short and long term finance **(Theory only).**

Unit – II	Investment Decision

Capital Budgeting : Principles and Techniques - Evaluation techniques : Payback period, Accounting rate of return, Net present value, Internal rate of return, Profitability Index **(Problems)** – Risk Analysis in Capital Budgeting.

Unit – III	Financing Decision

Concept and Measurement of Cost of Capital: Importance, Factors affecting cost of capital. Measurement of Specific Costs, cost of debt, cost of preference shares , cost of equity - Computation of Overall cost of Capital **(Problems).**

Unit – IV	Capital Structure and Dividend Decision
Capital Structure Planning : Capital Structure Theory : Net Income Approach, Net Operating Income Approach, MM Theory– EBIT-EPS analysis -Determinants of capital structure- Dividend policy : Forms of dividend policy – Determinants of dividend policy – Walters's and Gordon's model **(Theory only).**	

Unit – V	Working Capital Decisions
Working Capital Decisions : Importance and Types of Working Capital .Management of cash, inventory and receivables – Determinants of Working Capital –Computation of working capital **(Problems).**	

60% of the questions shall be theory and the remaining 40% of the questions shall be problems based.

TEXT BOOK

1	M Y Khan, P K Jain, "Financial Management" Tata McGraw Hill Publishing Company Limited, New Delhi (8th Edition), 2019.

REFERENCE BOOKS

1	IM Pandey "Financial Management", 11th Edition 2015, Vikas Publishing Co, New Delhi. 2010.Sultan & Sons, Delhi.
2	S.N.Maheswari "Financial Management - text, problem and cases", 2018 10th Edition
3	Prasanna Chandra "Financial Management: Theory and Practice", 2018 10th Edition , Tata McGraw Hill Publishing Company Limited, New Delhi

Course Designed By	Verified By	Approved By HOD
Dr.V.G.SUMATHY	Dr.R.VIJAYAPRIYA	Dr.V.G.SUMATHY

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Mapping of COs with POs and PSOs:

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CO4	S	S	S	S	S	M	S	S	S	S	S	S
CO5	M	M	M	M	M	M	S	S	M	S	M	S

S - Strong, M - Medium, L – Low

Sem.	Course Code	HUMAN RESOURCE MANAGEMENT	Total Marks:100		Hours Per Week	Credits
II	23PBDCT204		CIA: 25	ESE: 75	4	4

Course Objectives:

1. To provide an in-depth understanding of HR basic Functions.
2. To equip the students with necessary HR skills that are required by HR professionals.
3. To enable the students identify and analyze the problems in the field of HRM and be able to provide innovative solutions.

Course Outcomes (CO): On completion of the course, students should be able to

CO1	Acquire fundamental concepts of human resource management.	
CO2	Identify and select appropriate recruitment and selection process.	
CO3	Apply various training and development techniques to enhance the skills of human resources.	**K1-K6**
CO4	Analyze the performance appraisal techniques and job evaluation methods.	
CO5	Acquire knowledge about social security measures and industrial relations.	

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

Unit –I	Human Resource Management

Human Resource Management: Meaning – Objectives - Nature -Scope - Functions – importance - HRM Models - Role of HR Manager – Organisation for HR department – Qualities of HR Manager - Personnel policies and principles – skills for HR professionals.

Unit – II	Human Resource planning and recruitment

Human Resource planning: Meaning - Importance - Process - Factors affecting HRP. Job design - Job Analysis - Nature - Purpose - process - Methods of Collecting job Data – Job Description and Specification. Recruitment - Factors - Sources - process- Selection: Nature - objectives - Procedure – types of test – interview – objectives – types - Induction – objectives - advantages.

Unit – III	Training and Development

Training and Development- Nature - need of training programme – importance – process – types of training -Types of training methods – On the job and Off the-job training methods – Evaluation of Training Programmes. Training versus Development - Management development – objectives – principles – methods of management development.

Unit – IV	Performance Appraisal

Performance Appraisal - Nature - Objectives - Process - Methods – Traditional Methods And Non Traditional Methods – Advantages - Problems Of Performance Appraisal - Promotion – Nature – Types – Purpose – Bases Of Promotion – Benefits – Transfers – Reasons – Types – Demotion – Reasons- Principles – Job Evaluation – Objectives – Principles- Procedure – Methods Of Job Evaluation

Unit – V	Wage and salary administration

Wage and salary administration – objectives – factors affecting wage administration - wage incentives - social security measures – employee welfare – safety and health facilities - Industrial Relations - Collective bargaining - grievances handling -   Trade Union - Managing Ethical Issues in Human Resource Management – recent trends in HRM.

TEXT BOOK

1	Aswathappa, K. (2013), Human Resource Management: Text and Cases, 7th Edition, McGraw-Hill Education (India) Private Limited, New Delhi.

REFERENCE BOOKS

1	Dessler, Gary and Biju Varkke, Human Resource Management, 14th Edition , 2016, Pearson Education, New Delhi.
2	Gary Dessler, Human Resource Management, 9th Edition, 2002, Prentice-Hall of India (P) Ltd., New Delhi.
3	Subba Rao P, Personnel and Human Resource Management Text & cases, 2011, Himalaya Publishing House, New Delhi.

Course Designed By	Verified By	Approved By HOD
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CO4	S	M	M	M	S	L	S	S	S	M	M	S
CO5	M	M	S	S	M	M	S	M	M	M	M	S

S - Strong, M - Medium, L – Low

Sem.	Course Code	QUANTITATIVE TECHNIQUES		Total Marks:100		Hours Per Week	Credits
II	**23PBDCT205**			CIA : 25	ESE :75	5	4

Course Objectives:

To enable the students to learn the techniques of Operations Research and their application in business Management and decisions based on quantitative elements.

Course Outcomes (CO): On completion of the course, students should be able to

CO1	Understand the basic concepts of Operations Research.	**K1- K6**
CO2	To comprehended the concept of a Transportation Problem and Minimum Transportation Cost.	
CO3	Understand the basic concepts of Queueing Theory and Network scheduling.	
CO4	Understand and evaluate the decision to be made and the potential outcomes.	
CO5	Understand and evaluate the Simulation models.	

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

Unit –I	**Operations Research and Linear Programming Problem**

Operations Research- An Over View: Introduction-Origin and Development of O.R.-Nature and Features of O.R.-Scientific Method in O.R.-Operations Research and Decision Making-Applications of Operations Research. Linear Programming Problem: Introduction- Linear Programming Problem-Mathematical formulation of the Problem-Illustrations on Mathematical formulation of LPP's-Graphical solution method.

Chapter 1: Sections 1.1-1.4, 1.9, 1.10, Chapter 2: Sections 2.1-2.4, Chapter 3: Section 3.2.

Unit – II	**Transportation Problem**

Introduction - LP Formulation of the Transportation Problem- Transportation Table-Solution of a Transportation Problem-Finding an Initial Basic Feasible solution (NWCR, LCM and VAM)-Test for optimality- Transportation Algorithm (MODI Method) Non-Degenerate problems Only.

Chapter 10: Sections 10.1-10.2, 10.5, 10.8-10.10, 10.13.

Unit – III	**Queueing Theory and Network Scheduling by PERT/CPM**

Queueing Theory: Introduction- Queueing System-Elements of Queueing System- Operating Characteristic of queueing System-Classification of Queueing models-Poisson Queueing System Model I{M/M/1:(∞/FIFO)}only. Network Scheduling by PERT/CPM: Introduction-Basic Components-Logical Sequencing- Rule of Network Construction-Critical Path Analysis - Probability Consideration in PERT-Distinction between PERT and CPM.

Chapter 21: Sections 21.1-21.4, 21.7, 21.9, Chapter 25: Sections 25.1-25.4, 25.6-25.8.

Unit – IV	Decision Analysis
Introduction-Decision making Problem- Decision making Process- Decision making Environment-Decisions under Uncertainty- Decisions under risk-Decision tree analysis. **Chapter 16: Sections 16.1-16.7.**	

Unit – V	Simulation
Introduction-Why simulation?-Process of simulation-Simulation models-Event-Type simulation-Generation of random numbers-Monte-Carlo simulation-Simulation of a queueing system. **Chapter 22: Sections 22.1-22.7, 22.9.**	

80% of the questions shall be problems (simple business application problems) and the remaining 20% of the questions shall be theory based.

TEXT BOOK	
1	Kanti Swarup, P.K.Gupta and Man Mohan, " Introduction to Management Science-Operations Research", 15thEdition, 2010, Reprint 2011, Sultan Chand and Sons, New Delhi.

REFERENCE BOOKS	
1	Vittal.P.R and Malini.V, "Operation Research:Resource Management Techniques", 1st Edition 2013, Margham Publishers.
2	Dr.Sharma J.K "Operation Research Theory and Applications", 3rd Edition 2007, Macmillan India Limited.

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CO4	S	M	M	M	S	M	S	S	M	S	M	S
CO5	S	M	M	M	S	M	S	S	M	S	M	S

S - Strong, M - Medium, L – Low

Sem.	Course Code	RESEARCH METHODOLOGY	Total Marks:100		Hours Per Week	Credits
II	23PBDCT206		CIA: 25	ESE: 75	4	4

Course Objectives:
1. To impart students knowledge of research in the field of management.
2. To understand the research design, sampling design, measurement and scaling.
3. To learn a deeper understanding of data analysis and report writing.

Course Outcomes (CO): On completion of the course, students should be able to

CO1	Acquire basis on research problem.	
CO2	Outline the awareness on research and sampling design.	
CO3	Identify the measurement and scaling in research.	**K1-K6**
CO4	Analyze on data processing and analysis.	
CO5	Prepare the interpretation and report writing.	

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

Unit –I	Research

Research: Meaning - Objectives - Types - Significance of Research - Research methods and Methodology - Steps of research process - Criteria of good research - Research Problem: Selecting the problem - Necessity of Defining the Problem - Technique of formulating a problem.

Unit – II	Research Design

Research Design: Meaning - Need and Features - Concepts relating to research design - different research designs - Principles of Experimental designs - developing a research plan. Sampling Design: Census and sample survey - Steps in sample design – Sample size determination - different types of sampling designs - Non probability and probability Sampling designs.

Unit – III	Measurement and Scaling

Measurement and Scaling: Measurement in research - Tests of Measurement: validity, reliability and practicality - Levels of measurement –Nominal, Ordinal, Interval, Ratio Scale classification Basis - Scaling Techniques - Data collection: Primary data and Secondary data - Collection of data through questionnaires - Schedules and interviews - Collection of secondary data.

Unit – IV	Data Analysis

Processing and Analysis of Data: Processing Operations - Problems in processing - Types of analysis - Parametric test - Importance of parametric test - Parametric versus Non parametric test - Chi-Square Test (Problems) - Henry Garrett's Ranking Technique (Problems).

Unit – V	Interpretation and Report Writing

Interpretation and Report Writing: Meaning of Interpretation - Technique-Precaution in Interpretation - Significance of Report writing-Steps in Writing a Report - Layout of research Report - Types of report - Precautions for writing Research report - Plagiarism - Avoiding Plagiarism in research.

Questions: 80% of the questions shall be theory 20% of the questions shall be problem based.

TEXT BOOK

1	Kothari C.R., "Research Methodology Methods and Techniques", 2nd Revised Edition, 2010, New Age International Publishers, New Delhi.

REFERENCE BOOKS

1	Panneerselvam.R, "Research Methodology", 2nd Edition, 2007, Prentice Hall India (P) Ltd., New Delhi.
2	Donald R. Cooper, Pamela S. Schindler, J. K. Sharma, 12th Edition, 2018, Business Research Methods, McGraw Hill Education Private Limited, New Delhi.
3	Srivastava, T. N and Rego Shailaja , Business Research Methodology, 2011, Tata McGraw Hill Education Private Limited, New Delhi.

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QUESTION PAPER PATTERN		
SECTION – A	**SECTION – B**	**SECTION – C**
10 X 1 = 10 Marks Answer ALL the questions Choose the correct answer	5 X 5 = 25 Marks Answer ALL the questions Either or type Two questions from each unit	5 X 8 = 40 Marks Answer ALL questions Question Number: 16 to 19 (Either or type) Question Number 20 is Compulsory- Case Study

Mapping of COs with POs and PSOs :

PO/PSO CO	PO							PSO				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO1	S	M	S	M	M	S	M	S	L	M	M	M
CO2	S	M	S	L	M	M	M	S	M	M	S	M
CO3	S	M	S	M	S	L	M	S	S	M	S	M
CO4	S	M	S	M	S	M	S	S	S	S	S	M
CO5	S	S	S	M	S	L	S	S	S	S	S	S

S - Strong, M - Medium, L – Low

Sem.	Course Code	DATA ANALYSIS USING SPREAD SHEET AND SPSS - PRACTICAL	Total Marks:50		Hours Per Week	Credits
I&II	23PBDCP207		CIA: 20	ESE: 30	2	2

Course Objectives:

The objective of this course is to impart the students to get practical knowledge of data analysis using Spread sheet and SPSS.

Course Outcomes (CO): On completion of the course, students should be able to

CO1	Acquire the fundamentals of working in Spread sheet and SPSS.	
CO2	Prepare the application oriented worksheet.	
CO3	Compute the mathematical functions in Spread sheet.	**K1-K6**
CO4	Create the data file in SPSS and prepare for data analysis in SPSS.	
CO5	Demonstrate the data analysis in SPSS.	

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

PROGRAMMES

SPREAD SHEET (EXCEL)

1. Create a Salary slip using worksheet with following fields Employee number, Employee name, Basic Pay(BP), Travelling Allowance(TA), Dearness Allowance(DA), House Rent Allowance(HRA), Income Tax(IT), Provident Fund(PF), Net Pay(NP).

2. To calculate the age of a person in Excel, use the DATEDIF function and the TODAY function.

3. Create Student mark list in MS-Excel worksheet to sorting in ascending and descending order.

4. Create a chart for using the fields as Roll No, Name, Marks and Percentage of a class.

5. Create an Excel Worksheet for the monthly sales of a product and also represent the data by using bar chart.

6. Preparing internal marks using IF and AND Function.

7. Perform the CONVERT function to convert from cm to inches.

8. Calculate the simple Interest using Excel.

9. Create and automate the invoice in Excel**.**

10. Create the Pivot Table using Spread sheet.

STATISTICAL PACKAGE FOR THE SOCIAL SCIENCES (SPSS)

11. Create a data file in SPSS by using data editor, the Data View and Variable View.

12. Calculate the Mean, Median and Mode by using the SPSS.

13. Presentation of data through charts and diagrams in SPSS.

14. Calculate the Standard deviation by using the SPSS.

15. Calculate and Interpret Chi- square test in SPSS.

TEXT BOOKS

1	Nellai Kannan, "MS - Office", 5th Edition, 2012, Nels Publications, Tirunelveli.
2	Dr. S.L.Gupta, Hitesh Gupta "SPSS 17.0 For Researchers", 1st Edition, 2011, International Book House Pvt. Ltd., New Delhi.

REFERENCE BOOKS

1	Curtis D.Frye, "Microsoft office Excel 2007 Step by Step", 2010, Prentice Hall India Private Limited, New Delhi.
2	A. Rajathi, P.Chandran , "SPSS For You" 1st Edition, 2015, MJP Publishers, Chennai.

Course Designed By	Verified By	Approved By HOD
Dr.G.KARTHI	Dr.R.VIJAYAPRIYA	Dr.V.G.SUMATHY

Mapping of COs with POs and PSOs:

PO/PSO CO	PO							PSO				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO1	S	M	S	M	S	S	M	S	M	M	S	M
CO2	S	M	M	M	S	M	M	S	M	S	S	M
CO3	S	M	S	M	S	L	M	S	S	M	S	M
CO4	S	M	M	M	S	M	S	S	S	S	S	M
CO5	S	M	S	M	S	L	S	S	S	M	S	M

S - Strong, M - Medium, L - Low