ST. TERESA'S COLLEGE, ERNAKULAM

(AUTONOMOUS)

Affiliated to Mahatma Gandhi University, Kottayam

CURRICULUM FOR

BACHELOR'S PROGRAMME

IN ECONOMICS

Under Choice Based Credit & Semester System
& Outcome Based Education

(2018 Admissions)

BECO - B.A. ECONOMICS

PROGRAM SPECIFIC OUTCOMES

PSO1: Explain the major concepts and the theoretical foundations in Economics

PSO2: Analyze socio-economic phenomena using mathematical- quantitative- econometric- logical reasoning skills

PSO3: Evaluate the role of economic forces in markets, business organizations, private -public decision making process, financial systems, domestic and global economies

PSO4: Develop communication skills to decipher and transmit the basic concepts and emerging trends in Economics and foster social responsibility and environmental consciousness

PSO5: Apply the theoretical knowledge and skills to analyze real life situations and focus on applied and policy issues in economics

SEMESTER I

Course Code	Course Title	Credits	Course Type
EN1A01B18	Fine-Tune Your English	4	Common Course I
EN1A02B18	Pearls From The Deep	3	Common Course I
FR1A01B18	French Language And Communicative Skills - I	4	Common Course II
HN1A01B18	Kahaani Aur Upanyas	4	Common Course II
MA1A01B18	Kathasahithyam	4	Common Course II
SO1C01B18	Introduction To Sociology	4	Complementary Course I
MT1C02B18	Graphing Functions, Equations And Fundamental Calculus	4	Complementary Course I
EC1B01B18	Methodology Of Social Sciences With Special Reference To Micro Economics	5	Core Course

SEMESTER I

COMMON COURSE I

EN1A01B18– FINE-TUNE YOUR ENGLISH

Credits: 4

Total Lecture Hours: 90

Course Outcomes:

CO1: Recognize the basics of English grammar

CO2: Choose the appropriate word classes

CO3: Identify common errors in the use of English language in various contexts

CO4: Apply the rules of grammar to comprehend, speak, and write grammatically correct
English

CO5: Compose materials for business communication

Mapping of Course Outcomes with Program Specific Outcomes

Mapping	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	1	2	1	2	1
CO2	1	2	1	3	1
CO3	1	2	1	3	1
CO4	3	2	1	3	1
CO5	2	1	2	3	2

Syllabus Content:

Module I   **(18 Hours)**

The Sentence and its Structure

How to Write Effective Sentences – Phrases: What are They? – The Noun Clauses – The Adverb

Clause – "If All the Trees Were Bread and Cheese" – The Relative Clause – How Clauses are Conjoined

Module II   **(18 Hours)**
Word-Classes and Related Topics

Understanding the Verb – Understanding Auxiliary Verbs – Understanding Adverbs – Understanding Pronouns – The Reflexive Pronoun – The Articles I – The Articles II – The Adjective – Phrasal Verbs – Mind your Prepositions

Module III   **(18 Hours)**
To Err is Human

Concord – Errors – Common and Uncommon

Spelling and Pronounciation

Pronunciation: Some Tips – More Tips on Pronunciation – An awesome Mess? – Spelling Part II

Module IV   **(18 Hours)**
Tense and Related Topics

 'Presentness' and Present Tenses – The 'Presentness' of a Past Action – Futurity in English – Passivisation

Interrogatives and Negatives

Negatives – How to Frame Questions – What's What? – The Question Tag

Module V   **(18 Hours)**
Conversational English

Some time expressions – Is John There Please?

Miscellaneous and General Topics

Reading

Letter Writing

In addition there will be an essay question on a gene

SEMESTER I

COMMON COURSE I

EN1A02B18 - PEARLS FROM THE DEEP

Credits: 3

Total Lecture Hours: 72

Course Outcomes:

CO1: Name prominent literary figures and recognize various literary devices

CO2: Analyze inherent themes and motives

CO3: Identify the nuances of the age in which the literary work was written

CO4: Examine the different aspects of theatre

Mapping of Course Outcomes with Program Specific Outcomes

Mapping	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	2	1	1	2	1
CO2	2	2	1	3	1
CO3	2	1	1	2	1
CO4	2	1	1	3	1

Syllabus Content

Module I (Fiction)   **(18hours)**

Ernest Hemingway: The Old Man and the Sea

Module II (One Act Plays)   **(18hours)**

Susan Glaspell: Trifles

Asif Currimbhoy: The Refugee

A.A Milne: The Boy Comes Home

Module III (Short Stories)   **(18hours)**

Guy De Maupassant: Two Friends

O. Henry: The Gift of Magi

K.A Abbas: Sparrows

Flora Annie Steel: Valiant Vicky, the Brave Weaver

Module IV (Poems)   **(18hours)**

Rumi: The Chance of Humming

Walter Scott: Lochinvar

John Keats: La Belle Dame Sans Mercy

Robert Frost: After Apple Picking

Chinua Achebe: Refugee Mother and Child

Kamala Das: My Grandmother's House

Ted Hughes: Jaguar

Pablo Neruda: Tonight I can Write the Saddest Lines

P.P Ramachandran: How Simple It Is!

SEMESTER I

COMMON COURSE II

FR1A01B18 – FRENCH LANGUAGE AND COMMUNICATIVE SKILLS -I

Credits: 4

Total Lecture Hours: 72

Course Outcomes:

CO1: Describe topics such as family, professions, time, place, likes and dislikes, daily life situations.

CO2: Develop language, vocabulary and grammar skills.

CO3: Articulate various speech sounds and their determined combinations.

CO4: Prepare conversations based on scenarios which helps while traveling

CO5: Articulate the concepts to express one's opinion in a specific situation.

Mapping of Course Outcomes with Program Specific Outcomes

Mapping	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	2	1	1	2	1
CO2	2	1	1	3	1
CO3	1	2	1	3	1
CO4	1	2	1	3	2
CO5	1	2	2	3	2

Syllabus Content:

Module I   **(25 hours)**

La population L'alphabet – Les chiffres – Identité – Se présenter – Poser des questions – Les professions – Les nationalités

Module II   **(23 hours)**

La banlieue Demander une information, un prix – l'heure – la ville

Module III   **(24 hours)**

Quartier de Paris Décrire un lieu – Indiquer un prix, un itinéraire.

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SEMESTER I

COMMON COURSE II

HN1A01B18 - KAHAANI AUR UPANYAS

Credits: 4

Total Lecture Hours: 72

Course Outcomes:

CO1: Discuss story content and structure in depth.

CO2: Analyse characterisation and comment on the development of the characters as the story/ novel unfolds.

CO3: Analyse short stories and novels on the basis of literary elements like plot, theme, metaphor, and image.

CO4: Compare treatments of theme, character and subject matter of different short stories.

CO5: Illustrate greater reading fluency and improved vocabulary in Hindi.

Mapping of Course Outcomes with Program Specific Outcomes

Mapping	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	1	2	1	2	1
CO2	1	2	1	3	1
CO3	1	2	2	3	1
CO4	1	2	2	3	1
CO5	1	1	1	3	1

Syllabus Content:

Module I   (16Hrs)

Syllabus- Anthim Saakshya –Chandrakaanta Chapters 1 ,2

Eidgaah- Premchand

Module II   (20 hrs)

Syllabus-Anthim Saakshya –Chandrakaanta Chapters 3, 4, 5 Jangal Ka Daah- Swayam Prakash ChchuttiKa Din- UshaPriyamvada

Module- III   (20hrs)

Syllabus- Anthim Saakshya –Chandrakaanta Chapters 6,7,8MaaRasoi Mei Rehti Hai – Kumar Ambuj Kheer – Madhavi Kutty

Module IV   (16 Hrs)

Syllabus- Anthim Saakshya –Chandrakaanta Chapters 9, 10 Heelibon Ki Baththakhe- Agyey

SEMESTER I

COMMON COURSE II

MA1A01B18 - KATHASAHITHYAM

Credits: 4

Total Lecture Hours: 72

Course Outcomes:

CO1: ചെറുകഥ, നോവൽ പഠനത്തിലൂടെ വായനാശേഷിയും ആസ്വാദനപ്രാപ്തിയും കൈവരിക്കൽ.

CO2: ചെറുകഥയുടെയും നോവലിന്റെയും കാലാനുസൃതമായ ഭാവുകത്വ പരിണാമം തിരിച്ചറിയൽ.

CO3: നിലവിലുള്ള സാമൂഹ്യജീവിത യാഥാർഥ്യങ്ങളെ അഭിമുഖീകരിക്കാൻ പ്രാപ്തരാക്കൽ.

CO4: ആശയവിനിമയം, ഭാഷാവിഷ്ക്കരണം എന്നീ ശേഷികൾ കൈവരിക്കുന്നു

CO5: കഥ, നോവൽ എന്നിവയുടെ വ്യതിരിക്ത സവിശേഷതകൾ തിരിച്ചറിയുന്നു.

CO6: പുതുകാലജീവിതാനുഭവങ്ങൾ വിലയിരുത്താൻ പര്യാപ്തരാകുന്നു

Mapping of Course Outcomes with Program Specific Outcomes

Mapping	**PSO1**	**PSO2**	**PSO3**	**PSO4**	**PSO5**
CO1	1	1	2	3	1
CO2	1	1	1	3	1
CO3	1	2	2	3	1
CO4	1	2	1	3	1
CO5	1	2	1	2	1
CO6	1	2	2	3	2

ഖണ്ഡം ഒന്ന്   **10 മണിക്കൂർ**

1.പൂവമ്പഴം -കാരൂർ

2.ഭൂമിയുടെ അവകാശികൾ -വൈക്കം മുഹമ്മദ്ബഷീർ

ഖണ്ഡം രണ്ട്   **15മണിക്കൂർ**

1.കടൽ -ടി .പദ്മനാഭൻ

2.പെരുമഴയുടെ പിറ്റേന്ന് -എം. ടി. വാസുദേവൻ നായർ

3.മാനാഞ്ചിറടെസ്റ്റ്   -വി .കെ.എൻ

4.തരിശു നിലം –മാധവിക്കുട്ടി

ഖണ്ഡം മൂന്ന്   **15മണിക്കൂർ**

1.ആർക്കറിയാം -സക്കറിയ

2.ഓരോഎഴുത്തുകാരിയുടെഉള്ളിലും -സാറാജോസഫ്

3.തിരുത്ത് -എൻ .എസ് .മാധവൻ

4.മോഹമഞ്ഞ -കെ .ആർ .മീര

ഖണ്ഡം നാല്   **10 മണിക്കൂർ**

1.അഗ്നി -സിതാര.എസ്

2.ബിരിയാണി –സന്തോഷ് എച്ചിക്കാനം

3.മോദസ്ഥിരനായി അങ്ങസിപ്പൂമല പോലെ -എസ്. ഹരീഷ്

4.സ്നേഹബഹുമാനപെട്ട അന്നാമ്മയ്ക്ക്ഗീതാലക്ഷ്മി എഴുതുന്ന കത്ത് –പ്രിയ എ .എസ്

5.ചിലസ്വപ്നങ്ങളിൽ ......സീതാലക്ഷ്മിയുടെ കറുത്ത മുടിയിഴ -ഇന്ദുമേനോൻ

ഖണ്ഡം അഞ്ച്   **22മണിക്കൂർ**

ആടുജീവിതം -ബന്യാമിൻ

SEMESTER I

COMPLEMENTARY COURSE I

MT1C02B18 - GRAPHING FUNCTIONS, EQUATIONS AND FUNDAMENTAL CALCULUS

Credits: 4

Total Lecture Hours: 108

Course Outcomes:

CO1: Analyze the concepts of functions, equations and polynomials and apply them to business and economic problems

CO2: Solve quadratic equations and employ non-linear graphing to solve economic problems

CO3: Evaluate higher order derivatives and the extrema of functions

CO4: Explain concavity and convexity of functions and evaluate optimal solutions for business and economic problems.

CO5: Define the fundamental theorems of Calculus and apply the rules of integration to solve economic and business problems.

Mapping of Course Outcomes with Program Specific Outcomes

Mapping	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	1	3	2	1	3
CO2	1	2	2	1	2
CO3	1	3	1	1	2
CO4	2	3	2	2	2
CO5	2	3	2	1	2

Syllabus Content

Module 1

Review: **(20Hrs)**

Exponents, polynomials, factoring, fractions, radicals, order of mathematical operations.

Equations and Graphs:

Equations, Cartesian Co-ordinate system, Linear Equations and Graphs, Slopes, Intercepts, The Slope- Intercept Form, Determining the equation of a straight line, Applications of Linear Equations in Business and Economics.

Module 2

Functions: **(28Hrs)**

Concepts and definitions, Graphing functions, the Algebra of Functions, Applications of linear functions for business and economics, Solving Quadratic Equations, Facilitating Non-linear Graphing, Application of non-linear functions in Business and Economics.

System of equations

Introduction, Graphical solutions, Supply-demand analysis, Break-even analysis, Elimination and substitution methods, IS-LM analysis, Economic and Mathematical modeling, Implicit functions and inverse functions.

Module 3

Concepts of Limits: **(30Hrs)**

Differential calculus (Fundamentals):

The derivative and the rules of differentiation: limits, continuity, The slope of curvilinear function. The derivative, differentiability and continuity, Derivative notation, Rules of differentiation, Higher order derivatives, Implicit functions, Differential calculus, Uses of derivatives. Increasing decreasing functions. Concavity and convexity. Relative extrema. Inflection points. Curve sketching. Optimisation of functions. The successive derivative test. Marginal concepts in economics. Optimising economic functions of business. Relation among

total, marginal and average functions.

Convex functions Quasi-Convex, Quasi – Concave functions

Module 4

Integral calculus(Fundamentals): (30Hrs)

Integration rules for indefinite integrals. Area under a curve. The definite integral. The fundamental theorems of calculus. Properties of definite integrals. Area between curves. Integration by substitution. Integration by parts. Present value of cash flow consumers and producerssurplus.

SEMESTER I

COMPLEMENTARY COURSE I

SO1C01B18– INTRODUCTION TO SOCIOLOGY

Credits: 4

Total Lecture Hours: 108

Course Outcomes:

CO1: Explain the historical development and relevance of Sociology as a discipline

CO2: Analyze society and social processes by employing basic sociological concepts

CO3: Identify the micro-level foundations of social life

CO4: Identify the different forms of deviance and social control from a sociological perspective

CO5: Identify the causes and effects of social change and evaluate the possible directions these changes

Mapping of Course Outcomes with Program Specific Outcomes

Mapping	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	2	2	1	2	1
CO2	2	3	2	1	2
CO3	3	2	1	1	1
CO4	3	2	1	2	1
CO5	1	2	2	2	3

Syllabus Content:

Module I   **(24 hours)**

Introducing Sociology

1.1 Origin and Development of Sociology

1.2 Subject Matter, Importance and Scope of Sociology

1.3 Development of Sociology in India

Module II   **(30 hours)**

Basic Concepts

2.1 Social Interaction-Nature, Types

2.2 Society-Definition, Types, Characteristics

2.3 Social Groups- Characteristics, Types

2.4 Social Institutions - Meaning, Characteristics and Types

     (Family, Marriage, Economic, Religious and Political)

Module III   **(28 hours)**

Socialization

3.1 Socialization- Definition, Stages, Types and Functions

3.2 Theories – C.H Cooley, Sigmund Freud, G.H Mead

3.3 Social conformity and social deviance

Module 1V   **(26 hours)**

Social Change and Social Control

4.1 Definition, Types, Factors

4.2 Social Evolution, Social Progress, Social Development

4.3 Process of Social Change- Westernization, Modernization

4.4 Social Control- types and agencies

SEMESTER I

CORE COURSE

EC1B01B18 - METHODOLOGY OF SOCIAL SCIENCES WITH SPECIAL REFERENCE TO MICRO ECONOMICS

Credits: 5

Total Lecture Hours: 108

Course outcome

CO1: Explain the basic concepts and methodology in economics

CO2: Illustrate the impact of shifts in both market supply and demand curves on equilibrium price and output

CO3: Identify the determinants of price elasticity of demand and supply and illustrate the relationship between elasticity and total revenue

CO4: Analyze the behaviour of a consumer in terms of utility maximisation and price determination under various conditions

CO5: Describe short run and long run production function and Illustrate empirical production function

CO6: Compare and contrast production and cost, short run and long run, and profits and revenues

Mapping of Course Outcomes with Program Specific Outcomes

Mapping	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	3	2	2	1	2
CO2	2	3	2	1	2
CO3	2	3	2	1	2
CO4	2	2	3	1	2
CO5	3	2	3	1	2
CO6	3	3	2	1	2

Syllabus Content

Module I – Methodology of Economics &Introduction to Microeconomics   (18 Hrs)

Social Science - Its Emergence and Development –Emergence of Economics- Relationship of Economics with other social sciences-Methods of formulating Economic Theories - Positive and Normative Economics, Economic theory and Economic laws, Micro and Macro Economics, Role of assumptions in Economics, Method and Methodology - the deductive and inductive methods-static, comparative statics and dynamic methods of analysis - equilibrium analysis – partial and general. Micro economic models (concepts only)

Definitions of Economics-Problem of scarcity and choice – Central problems of Economy-production possibility frontier - microeconomic policy goals – efficiency and equity.– functions of an economic system – Marginal concept in micro Economics

Module II –Demand Analysis   (13 Hrs)

Concepts of demand- Factors affecting demand- Law of demand- exceptions-demand for normal, inferior, substitute and complementary goods- Shifts of demand versus movements along a demand curve – Linear Demand Equation, Curve- elasticity of demand – Degrees- price elasticity of demand – determinants- methods of estimation – Total outlay, Point, and arc method – income elasticity of demand and cross elasticity of demand

Module III- Supply Analysis   (12 Hrs)

Supply – supply schedule and supply curve – changes and shifts in supply - elasticity of supply - measurement and application. Seller's view – Revenues – total, average and marginal – revenue and price elasticity - market equilibrium and impact of changes in demand and supply – dynamic demand and supply model: Cobweb- Demand forecasting

Module IV – Theory of Consumer Behaviour   (35 Hrs)

Concepts of Total and Marginal utility- Consumer preferences and choice-consumer's equilibrium – cardinal utility and ordinal utility – law of diminishing marginal utility- consumer equilibrium under cardinal utility – derivation of demand curve - law of equimarginal utility – water-diamond paradox – criticisms of cardinal utility approach - indifference curve analysis – characteristics – MRS - budget line – consumer's equilibrium – income effect and Engel curve – price effect,

income effect and substitution effect- derivation of demand curve – splitting price effect into income effect and substitution effect: Hicksian and Slutsky's approaches - criticisms of ordinal utility approach – revealed preference theorem – derivation of demand curve – distinction between weak and strong ordering – consumer's surplus

Module V – Theories of Production   (30 Hrs)

Production function – Total, Average & Marginal product- time element in production function – law of variable proportions (modern approach)– isoquants – properties – MRTS - ridgelines and economic regions of production– Isocost lines – optimal input combination – producer's equilibrium – expansion path – elasticity of factor substitution - laws of returns to scale – economies and diseconomies of scale – empirical production function: Cobb-Douglas production function – properties.

SEMESTER II

Course Code	Course Title	Credits	Course Type
EN2A03B18	Issues that Matter	4	Common Course I
EN2A04B18	Savouring the Classics	3	Common Course I
FR2A03B18	French - French Language and Communicative Skills-II	4	Common Course II
MA2A03B18	Malayalam – Kavitha	4	
HN2A03B18	Hindi – Kavita, Vyakaran Aur Anuvad	4	
MT2C02B18	Exponential, Logarithmic Functions, Linear Algebra And Advanced Calculus	4	Complementary Course I
SO2C01B18	Development of Sociological Theories	4	Complementary Course II
HY2C01B18	History of the Freedom Movement in India	4	
EC2B02B18	Micro Economic Analysis	5	Core Course

SEMESTER II

COMMON COURSE I

EN2A03B18– ISSUES THAT MATTER

Credits: 4

Total Lecture Hours: 90

Course Outcomes:

CO1. Identify the major issues of contemporary significance

CO2. Discuss the consequences of war and refugee crisis with respect to the psychological dimension

CO3. Employ theoretical learning in classrooms to current developments in the world

CO4. Critique the diverse experiences both historical and contemporary to create a more informed vision of the future

CO5. Develop oneself as a conscious, concerned, conscientious human being

Mapping of Course Outcomes with Program Specific Outcomes

Mapping	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	1	1	2	3	1
CO2	1	1	2	3	1
CO3	1	1	1	3	2
CO4	1	1	2	3	2
CO5	1	1	2	2	3

Syllabus Content:

Module 1   **(18 hours)**

"The Unsurrendered People" – Kenzaburo Oe

"The Old Prison" – Judith Wright

"War" – Luigi Pirandello

Module 2   **(18 hours)**

Persuasions on the Power of the Word:

"On Censorship" – Salman Rushdie

"Peril" – Toni Morrison

"The Burning of the Books" – Bertolt Brecht

"The Censors" – Luisa Valenzuela

Module 3   **(18 hours)**

"The Poisoned Bread" – Bandhu Madhav

"A Trip Westward" – Zitkala-Sa

"The Pot Maker" – Temsula Ao

Module 4   **(18 hours)**

"Does it Matter?" – Richard Leakey

"On Killing a Tree" – Gieve Patel

"Hagar: A Story of a Woman and Water" (Gift in Green (chapter 2)) – Sarah Joseph

Module 5   **(18 hours)**

"Understanding Refugeeism: An Introduction to Tibetan Refugees in India" – Mallica Mishra

"Refugee Blues" – W.H Auden

"The Child Goes to the Camp" (from Palestine's Children) – Ghassan Kanafani

SEMESTER II

COMMON COURSE I

EN2A04B18 - SAVOURING THE CLASSICS

Credits: 3

Total Lecture Hours: 72

Course Outcomes:

CO1: Recognise the time-tested literary masterpieces from diverse cultures

CO2: Identify the representative authors from various genres (poetry, drama, novel, short fiction)

CO3: Recite celebrated lines from Classic works

CO4: Discuss the 'universals' of human condition

Mapping of Course Outcomes with Program Specific Outcomes

Mapping	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	1	1	2	3	2
CO2	1	1	1	3	1
CO3	1	1	1	3	1
CO4	1	1	1	3	1

Syllabus Content

Module 1 (Poems)   **(18hours)**

Homer: "Father and Son" (Odyssey Book 16: 113-189) (Translated by Robert Fagles)

Kalidasa: "Lovely is Youth" (Translated by J.G Jennings)

Omar Khayyam: Rubaiyat (quatrains: 25-28) (Translated by Edward Fitzgerald)

Dante: Dante meets Virgil (Inferno Canto 1: 49-102) (Translated by J.G Nichols)

John Milton: "On his Blindness"

Module 2 (Shakespeare Excerpts)   **(18hours)**

Romeo and Juliet: Act II, Scene ii

The Merchant of Venice: Act IV, Scene i

Module 3 (Novel Excerpts)   **(18hours)**

Miguel de Cervantes: Don Quixote (Chapter 8) (Translated by Edith Grossman)

Jane Austen: Pride and Prejudice (Chapters 1-6)

Victor Hugo: Les Miserables (Part 1- Fantine, Book II, Chapters 9-13) (Translated by Christine Donougher)

Module 4 (Short Fiction)   **(18hours)**

Charles Dickens: The Black Veil

Leo Tolstoy: How Much Land Does a Man Need? (Translated by Louise & Aulmer Maude)

Rabindranath Tagore: Kabuliwala (Translated by Mohammad A Quayum)

Jorge Louis Borges: The Shape of the Sword (Translated by Andrew Hurley)

SEMESTER II

COMMON COURSE II

FR2A03B18 – FRENCH LANGUAGE AND COMMUNICATIVE SKILLS-II

Credits: 4

Total Lecture Hours: 72

Course Outcomes:

CO1: Identify familiar everyday expressions and basic phrases.

CO2: Ask questions to get meaningful responses in effective communication

CO3: Develop language, vocabulary and grammar skills.

CO4: Prepare conversations based on various situations

CO5: Articulate the concepts to express one's opinion in a specific situation.

Mapping of Course Outcomes with Program Specific Outcomes

Mapping	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	2	1	1	3	1
CO2	2	1	1	3	1
CO3	1	2	1	3	1
CO4	1	2	1	3	2
CO5	1	2	2	3	2

Syllabus Content

Module I   **(25 hours)**

Chambre pour étudiants Localiser des objets – l'habitat – les meubles – l'appréciation

Module II   **(23 hours)**

Petits boulots Téléphoner – Raconter – l'emploi

Module III   **(24 hours)**

Le resto U Exprimer une opinion – Poser des questions – la nourriture

SEMESTER II

COMMON COURSE II

HN2AO3B18 - KAVITA , VYAKARAN AUR ANUVAD

Credits : 4

Total Lecture Hours: 72

Course Outcomes:

CO1: Contextualize and Summarise the poems of different genres in Hindi.

CO2: Evaluate the Poets contribution to Hindi literature.

CO3: Demonstrate linguistic ability for translation of texts between Hindi & English

CO4: Classify Parts of Speech.

CO5: Illustrate greater fluency in Hindi by applying theoretical knowledge of Grammar

Mapping of Course Outcomes with Program Specific Outcomes

Mapping	**PSO1**	**PSO2**	**PSO3**	**PSO4**	**PSO5**
CO1	1	2	1	3	1
CO2	1	2	1	3	1
CO3	1	2	2	3	1
CO4	1	2	2	3	1
CO5	1	2	2	3	1

Syllabus Contents

Module I   **(18 Hours)**

Vyaakaran

Module II   **(20 Hours)**

Tulasidas

Kabir

Ve Muskathe Phool Nahi- Mahadevi Verma

Cheenane Aaye Hain Ve – Sarweshvar Dayal Saxena

Dilli Darwaaza – Kumar Vimal

Jungle Ke Ujaad Mei – Vinod Kumar Shukla

Aazadi Urf Gulaami – Gyanendrapathi

Module III   **(20 Hours)**

Meera

Bazaar- Mangalesh Dabraal

Beesvi Sadi Ke Antim Dino Ka Aashcharya- Rajesh Joshi

Do Haathiyon Ki Ladaai- Uda Pakash

Thande Paani Ki Machine – Ekant Srivastav

Saboot – Arun Kamal

Tumhe Kuch Karna Chahiye – Chanrakanth Devthale

Module IV   **(14 Hours)**

Anuvaad

SEMESTER II

COMMON COURSE II

MA2A03B18-കവിത

ക്രെഡിറ്റ്   :   **4**

പഠനസമയം   :   **72 മണിക്കൂർ**

കോഴ്സ് ഔട്ട്കം (Course Outcome)

CO1.പത്തൊൻപത് കവിതകളുടെ   പഠനത്തിലൂടെ   വായനാശേഷിയും ആസ്വാദന പ്രാപ്തിയും കൈവരിക്കൽ.

CO2.മലയാളകവിതകളിലെ കാലാനുസൃതമായ ഭാവുകത്വപരിണാമം തിരിച്ചറിയൽ.

CO3.നിലവിലുള്ള   സാമൂഹ്യജീവിതയാഥാർഥ്യങ്ങളെ   അഭിമുഖീകരിക്കാൻ പ്രാപ്തരാക്കൽ.

CO4.പരിസ്ഥികസൗന്ദര്യശാസ്ത്രത്തെയും ചില സാമൂഹ്യചരിത്ര പശ്ചാത്തലങ്ങളെയും കുറിച്ച് ഗ്രഹിക്കൽ.

CO5.വിദ്യാർത്ഥികളുടെ സർഗ്ഗാത്മകശേഷി വികസിക്കൽ

Mapping of Course Outcomes with Program Specific Outcomes

Mapping	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	1	1	2	3	1
CO2	1	1	1	3	1
CO3	1	2	2	3	1
CO4	1	2	1	3	1
CO5	1	1	1	3	1

ഖണ്ഡം ഒന്ന്-   **20 മണിക്കൂർ**

1. മാംസനിബദ്ധമല്ല രാഗം -കുമാരനാശാൻ (ലീലയിലെ 47 മുതൽ 74 വരെയുള്ള 28 ശ്ലോകങ്ങൾ)

2.സ്നേഹസുന്ദരപാതയിലൂടെ -വൈലോപ്പിള്ളി ('കുടിയൊഴിക്കലി'ലെ അവസാന ഖണ്ഡം)

ഖണ്ഡം രണ്ട്   **15 മണിക്കൂർ**

1 .ഒറ്റയ്ക്കിരിക്കാൻ പഠിച്ചുകഴിഞ്ഞു ഞാൻ -സുഗതകുമാരി

2 .കോഴി -കടമ്മനിട്ടരാമകൃഷ്ണപിള്ള

3 .പഴഞ്ചൊല്ലുകൾ -സച്ചിദാനന്ദൻ

4 .മുള്ളൻപന്നി -കെ.ജി.ശങ്കരപ്പിള്ള

ഖണ്ഡം മൂന്ന്   **15 മണിക്കൂർ**

1.തിരുത്ത്-പി .പി.രാമചന്ദ്രൻ

2.പിറക്കാത്ത മകന് -ബാലചന്ദ്രൻ ചുള്ളിക്കാട്

3.മൃഗശിക്ഷകൻ -വിജയലക്ഷ്മി

4.കുന്നിമണികൾ-കുഞ്ഞുണ്ണി

ഖണ്ഡം നാല്   **22 മണിക്കൂർ**

1 .ആടിയാടില അലഞ്ഞ മരങ്ങളേ -അൻവർ അലി

2 .കൽവീട് -വി.എം.ഗിരിജ

3 . ആഴങ്ങൾ അടച്ചിട്ട പുഴ -എസ് .ജോസഫ്

4 .സ്മാരകം -വീരാൻകുട്ടി

5 .കുട്ടമ്മാൻ -എം.ർ.രേണുകുമാർ

6 .നാഷണൽ ജ്യോഗ്രഫി -എസ് .കണ്ണൻ

7 .വാഴക്കുല -കെ .ആർ.ടോണി

8 .പഴയ ചിലത് -പി.രാമൻ

9 .ഗോതമ്പുശില്പം -കവിത ബാലകൃഷ്ണൻ

SEMESTER II

COMPLEMENTARY COURSE I

MT2C02B18 -EXPONENTIAL, LOGARITHMIC FUNCTIONS, LINEAR ALGEBRA AND ADVANCED CALCULUS

Credits: 4

Total Lecture Hours: 108

Course Outcomes:

CO1: Explain the exponential and the logarithmic functions and use them to calculate Interest compounding and growth rates from data points.

CO2 : Explain Matrix Algebra and use them to solve linear equations

CO3 : Employ Linear programming using graphs to optimize a function subject to several constraints.

CO4 : Apply Calculus for the constrained and unconstrained optimization of multivariable functions in business and economics.

Mapping of Course Outcomes with Program Specific Outcomes

Mapping	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	1	3	2	1	3
CO2	1	3	2	1	2
CO3	1	3	1	1	2
CO4	2	2	2	2	3

Syllabus Content

Module 1 Exponential and logarithmic functions: (20 Hrs)

Exponential functions. Logarithmic functions properties of exponents and logarithms. Natural exponential and logarithmic functions. Solving natural exponential and logarithmic functions. Logarithmic transformation of nonlinear functions. Derivatives of natural exponential and logarithmic functions. Interest compounding. Estimating growth rates from data points.

Module 2 Linear (or Matrix) Algebra: (36 Hrs)

Introduction, Definition and terms,Addition and subtraction of matrices, Scalar multiplication. Vector multiplication, Multiplication of Matrices, Matrix expression of a system of Linear equations, Augmented matrix, Row operations, Gaussian method of solving linear equations.

Solving Equations With Matrix Algebra:

Determinants and linear independence, Third order determinants, Cramer's rule for solving linear equations, Inverse matrices, Gaussian method of finding an inverse matrix, Solving linear equations with an inverse matrix, Business and Economic applications, Special Determinants.

Module 3 Linear programming using graphs: (20 Hrs)

Use of graphs, Maximisation using graphs, The extreme point theorem, Minimisation using graphs.

Module 4 Calculus of Multivariable functions: (32 Hrs)

Functions of several independent variables. Partial derivatives. Rules of partial differentiation. Second – order partial derivatives. Optimization of multivariable functions. Constrained optimization with Lagrange Multipliers. Income determination Multipliers. Optimization of multivariable functions in business and economics constrained optimization of multivariable economic functions. Constrained optimization of Cobb Douglas production functions. Homogeneous functions, homothetic functions and Eulers theorem

SEMESTER II

COMPLEMENTARY COURSE II

SO2C01B18– DEVELOPMENT OF SOCIOLOGICAL THEORIES

Credits: 4

Total Lecture Hours: 108

Course Outcomes:

CO1: Explain the history, features and functions of sociological theories and distinguish it from social thought, social philosophy and social theory

CO2: Compare the theoretical contributions of the founding fathers of Sociology

CO3: Review the methodologies adopted by classical sociological thinkers

CO4: Employ classical sociological theories to understand present-day realities

CO5: Explain the influence of evolutionary perspective on classical sociological thinkers

Mapping of Course Outcomes with Program Specific Outcomes

Mapping	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	2	3	1	2	1
CO2	2	3	2	1	2
CO3	3	2	1	1	1
CO4	3	2	1	2	1
CO5	1	3	2	2	2

Syllabus Content:

Module I

Module I Development of Sociological Theories   **(20 hours)**

1.1 Social thought, Social Philosophy – Definition, Characteristics

1.2 Historical background of the development of sociological theories

1.3 Sociological Theories – Definition, Characteristics, Types, Functions

Module II Founding fathers of Sociology   **(34 hours)**

Auguste Comte

2.1 Biographical and Intellectual Background

2.2 Methodology-Positivism

2.3 Law of Three Stages

2.4 Hierarchy of Sciences

2.5 Social statics and Social Dynamics

Herbert Spencer

2.6 Biographical Sketch

2.7 Methodology- Social Darwinism

2.8 Social Evolution

2.9 Organic Analogy

Module III Scientific Sociology of Emile Durkheim   **(28 hours)**

3.1 Emile Durkheim – Biographical sketch

3.2 Methodology- Social Facts

3.3 Theory of Social Solidarity

3.4 Theory of Suicide

Module IV Individualistic Methodology of Max Weber   **(26 hours)**

4.1 Biographical Sketch

4.2 Methodology- Verstehen

4.3 Social Action - Definition, Characteristics, Types

4.4 Theory of Religion - Protestant Ethics and Spirit of Capitalism

SEMESTER II

COMPLEMENTARY COURSE II

HY2C01B18   HISTORY OF THE FREEDOM MOVEMENT IN INDIA

Credits : 4

Total Lecture Hours: 108

Course Outcomes

CO1: Interpret the different approaches in the Indian National Movement.

CO2: Discuss the concept of nation and nationalism.

CO3: Discuss the socio-economic impact of British rule in India.

CO4: Explain about the events related to the nationalist uprising in India by giving importance
to the role of Gandhi.

CO5: Observe the major Acts during the British rule.

CO6: Describe the making of Indian constitution and the role of Ambedkar.

Mapping of Course Outcomes with Program Specific Outcomes

Mapping	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	1	1	1	1	1
CO2	1	1	1	1	1
CO3	3	2	2	2	2
CO4	1	1	1	1	1
CO5	2	2	1	1	1
CO6	1	1	1	1	1

Syllabus Contents

Module I   **(30 hours)**

Uprising of 1857- Nature, causes and consequences. Formation of I N C –Theories Moderates Partition of Bengal-Extremists-Surat Split- Swadheshi Movement Formation of Muslim League- Revolutionary Nationalists-Home Rule- Leftism.

Module II   **(30 hours)**

Gandhian Idea of Sathyagraha and Ahimsa-Rama Rajya- Gandhiji's Concept of Education- Nationalist Movement.

Module III   **(28 hours)**

Impact of World War I - Rowlatt Act- Jallianwallabagh- Non- cooperation –Simon Commission - Disobedience movement Round Table Conferences-Civil -Quit India Movement - INA - RIN Mutiny-Partition- Integration of the States

Module-IV   **(20 hours)**

Minto- Morley Reforms and Communal Representation-– Dyarchy- Indian Independence Act of 1947- Constituent Assembly and the making of the Indian Constitution- Role of B.R.Ambedkar.

SEMESTER II

CORE COURSE

EC2B02B18 - MICRO ECONOMIC ANALYSIS

Credits: 5

Total Lecture Hours: 108

Course outcome

CO1: Explain the basic concepts of Cost theory

CO2: Examine the   different market structures in the economy and its implications for pricing and output decisions.

CO3: Analyze different market conditions and their impact on economy

CO4: Describe various factor pricing and income distribution

CO5: Illustrate the fundamental principles of welfare economics.

CO6: Examine the criterion and scope of welfare economics

Mapping of Course Outcomes with Program Specific Outcomes

Mapping	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	3	2	2	1	2
CO2	3	2	2	1	2
CO3	2	3	2	1	3
CO4	3	2	2	1	2
CO5	2	2	3	1	2
CO6	3	3	2	1	2

Syllabus Content
Module I - Cost Analysis (15 Hrs)

Cost functions - cost concepts - explicit and implicit costs, economic and accounting costs, sunk cost, opportunity cost ,real cost, social cost- Traditional theory of costs - short run and long run analysis of costs – envelope curve – Modern theory of cost – short run and long run- L-shaped and saucer-shaped cost curves.

Module II – Market Structure   (30 Hrs)

Meaning of market- Market structure- Perfect Competition –characteristics - short run and long run equilibrium of a firm and industry -derivation of supply curve – shut down point – producer's surplus – imperfect markets

Monopoly – sources - features – short run and long run equilibrium - discriminating monopoly-price and output determination under discriminating monopoly - degrees and types of price discrimination – dumping – Monopsony- Bilateral monopoly –- social costs of monopoly power – regulation of monopoly.

Module III – Monopolistic Competition and Oligopoly   (24 Hrs)

Monopolistic competition – characteristics - non-price competition and selling costs - short run and long run (group) equilibrium - ideal output and excess capacity – limitations of monopolistic competition - oligopoly – characteristics – Price stickiness - Kinked demand curve – Sweezy model - Non-Collusive oligopoly – Duopoly (concept only) –competition Vs collusion - collusive oligopoly – cartels and price leadership – low-cost, dominant and barometric price leadership models - market with Asymmetric Information (concept only)

Module IV - Income Distribution and Factor Pricing   (24 Hrs)

Functional versus personal distribution - concepts of total physical product (TPP), average physical product (APP) and marginal physical product (MPP) - Marginal productivity theory of distribution – factor price determination under perfect competition and imperfect competition Ricardian and modern theories of rent - quasi-rent – money and real wages - wage differentials - effect of labour unions on wages – theories of interest – classical, neo-classical and Keynesian theories of interest – theories of profit- dynamic theory, risk-bearing theory – innovation theory of profit

Module V - Welfare Economics   (15 Hrs)

Welfare economics – nature, concepts and scope- problems of measuring social welfare - Edgeworth box diagram – contract curve - criteria of social welfare – role of value judgement- growth of GNP criterion – Bentham's criterion – Cardinalist criterion – Pareto optimality criterion- Kaldor and Hicks compensation criterion– Amartya Sen's concept of social welfare (basics only).

SEMESTER III

Course Code	Course Title	Credits	Course Type
EN3A05B18	Literature And/As Identity	4	Common Course I
FR3A05B18	An Advanced Course In French -I	4	Common Course II
HN3A05B18	Naatak Aurlambi Kavita	4	
MA3A05B18	Drisyakalasahithyam	4	
EC3C03B18	Logic	4	Complementary Course III
EC3B03B18	Economics Of Growth And Development	4	Core course 3
EC3B04B18	Public Economics	3	Core course 4

SEMESTER III

COMMON COURSE I

EN3A05B18 – LITERATURE AND/AS IDENTITY

Credits: 4

Total Lecture Hours: 90

Course Outcomes:

CO1. Explain how literature problematizes identity.

CO2. Analyze the quest for identity in the Indian diaspora.

CO3. Illustrate the effects of partition and communal violence in South Asian Literature.

CO4. Critique the social construction of identity.

Mapping of Course Outcomes with Program Specific Outcomes

Mapping	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	1	1	1	2	1
CO2	1	1	1	3	1
CO3	1	1	1	3	1
CO4	1	1	1	3	1

Syllabus Content

Module 1 (Diasporic Identities)   **(18 hours)**

Agha Shahid Ali: Postcard from Kashmir

Amy Tan: Mother Tongue

Imtiaz Dharker: At the Lahore Karhai

Chitra Banerjee Divakaruni: Indian Movie, New Jersey

Module 2 (South Asian Identities)   **(18 hours)**

Sadat Hassan Manto: The Dog of Tetwal

Intizar Hussain: A Chronicle of Peacocks

Selina Hossain: Fugitive Colours

Punakante Wijenaike: That Deep Silence

Module 3 (Life Writings)   (18 hours)

Malcolm X: ―Nightmare, excerpt from *The Autobiography of Malcolm X.*

Sashi Deshpande: Learning to be a Mother in *Janani– Mothers, Daughters, Motherhood*, (Ed.) Rinki Bhattacharya.

Module 4 (Indigenous Identities   (18 hours)

Leslie Marmon Silko: Lullaby

Garhwali Songs in *Painted Words- An Anthology of Tribal Literature* – Edited by G.N. Devy

Mamang Dai: Pinyar the Widow (Excerpt from Legends of Pensam)

Module 5 (Alter Identities)   (18 hours)

Nathaniel Hawthorne: The Birth Mark

Girish Karnad: Hayavadana (Excerpt)

Ruskin Bond: The Girl on the Train

SEMESTER III

COMMON COURSE II

FR3A05B18- AN ADVANCED COURSE IN FRENCH - I

Credits: 4

Total Lecture Hours: 90

Course Outcomes:

CO1: Describe topics such as physical appearance of a person, sports and entertainments.

CO2: Articulate the concepts to express ones opinion in a specific situation.

CO3: Compose conversations based on scenarios which help while shopping.

CO4: Articulate the concepts to give advice and instructions and to invite a person in a specific situation.

CO5: Construct conversations based on scenarios which help during medical and health consultations.

Mapping of Course Outcomes with Program Specific Outcomes

Mapping	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	1	1	1	2	1
CO2	1	1	1	3	1
CO3	1	1	1	3	1
CO4	1	1	1	3	2
CO5	1	1	1	3	2

Syllabus Content:

Module I   **(30 hours)**

Jeunes artistes: Décrire une personne - Exprimer une opinion - La description physique - Les spectacles

Module II   **(30 hours)**

Tenue de soirée : Inviter - Les vêtements - Les chaussures - Les couleurs - Les matières

Module III   **(30 hours)**

Faites du sport ! : Donner des conseils - Les parties du corps - Les mouvements - Les sports

SEMESTER III

COMMON COURSE II– HINDI

HN3AO5B18 - NAATAK AUR LAMBI KAVITHA

Credits – 4

Total Lecturer Hours - 90

Course Outcomes:

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

CO1: Summarise the poems and illustrate the socio-political and cultural concerns of the author

CO2: Discuss the Authors contribution to Hindi Literature

CO3: Analyse the characterisation of the Drama Konark

CO4: Critique excerpts of the poems and Drama

CO5: Communicate in oral and written form of Hindi with competence.

Mapping of Course Outcomes with Program Specific Outcomes

Mapping	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	1	1	1	3	1
CO2	1	1	1	2	1
CO3	1	1	1	3	1
CO4	1	1	1	3	1
CO5	1	1	1	3	1

Module- I   **22 Hours**

Syllabus- Konark Introduction & Act 1 (Jagdishchandra Mathur)

Module- II   **24 Hours**

Syllabus- - Konark Act 2 & 3(Jagdishchandra Mathur)

Module- III   **22 Hours**

Syllabus-

Nagayi Mahura (Thrilochan)

Shahenshah Ki Neend (Umashankar Chaudhary)

Dhaaba- Nilesh Raghuvanshi

Module- IV   **22 Hours**

Syllabus-Ithni Door Mat Bhyahna Baba- Nirmala Putul

Jawahar Tunnel – Agnishekhar

സെമസ്റ്റർ : മൂന്ന്

കോമൺ കോഴ്സ് മലയാളം
ബി.എ/ബി.എസ്.സി (റഗുലർ), ബി.എസ്.സി സൈക്കോളജി (സ്വാശ്രയം)

MA3A05B18- ദൃശ്യകലാസാഹിത്യം

Credits: 4

Total Lecture hours: 90

പഠനനേട്ടങ്ങൾ (Course Outcomes)

CO1:കേരളീയരംഗകലാപാരമ്പര്യവും സംസ്കാരപരിണാമവും ചർച്ചചെയ്യുക

CO2:ദൃശ്യകലാപഠനത്തിലൂടെ കേരളീയസംസ്കാരപരിണാമം, ചരിത്രം എന്നിവ അപഗ്രഥിക്കുക

CO3:കഥാപാത്രപഠനത്തിലൂടെ സമകാലികവിഷയങ്ങളെ വിലയിരുത്തുക

CO4: ഇതിവൃത്ത പഠനത്തിലൂടെ കഥാപാത്രങ്ങളെ വിമർശനാത്മകമായി നിരൂപണം ചെയ്യുക

CO5:സമകാലികസംഭവങ്ങളെ അടിസ്ഥാനമാക്കി നാടകം, ഹ്യസ്വചിത്രം എന്നിവ തയാറാക്കുക.

Mapping of Course Outcomes with Program Specific Outcomes

Mapping	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	1	1	1	2	1
CO2	1	1	1	3	2
CO3	1	1	1	3	1
CO4	1	1	1	3	1
CO5	1	1	1	3	1

<u>പാഠഭാഗങ്ങൾ</u>

<u>ഖണ്ഡം ഒന്ന് - സംസ്കൃത നാടകം</u>   20 മണിക്കൂർ.

മലയാളശാകുന്തളം നാലാമങ്കം - എ. ആർ രാജ രാജ വർമ

ഖണ്ഡം രണ്ട് - ആട്ടക്കഥ **15 മണിക്കൂർ**

നളചരിതം (ഒന്നാം ദിവസം) - ഉണ്ണായി വാര്യർ (തുടക്കം മുതൽ ഹംസം നളനിലുള്ള പ്രണയം ഉറപ്പിക്കുന്നത് വരെ)

ഖണ്ഡം മൂന്ന് - തുള്ളൽ **15 മണിക്കൂർ**

കല്യാണസൗഗന്ധികം (ശ്രീതങ്കൻ തുള്ളൽ) - കുഞ്ചൻ നമ്പ്യാർ - (ഭീമൻറെ കദളീവന പ്രവേശം മുതൽ ശ്രീരാമ ദാസൻറെ വംശേ ജനിക്കയാൽ പാരം നിനക്കു മഹംഭാവമിങ്ങനെ' വരെ ഭാഗങ്ങൾ

ഖണ്ഡം നാല് - മലയാള നാടകം **20 മണിക്കൂർ**

1128 ൽ ക്രൈം 27 - സി. ജെ. തോമസ്

ഖണ്ഡം അഞ്ച് - സിനിമ **20 മണിക്കൂർ**

നിർമാല്യം തിരക്കഥ - എം. ടി . വാസുദേവൻ നായർ

SEMESTER III

COMPLEMENTARY COURSE 2

EC3C03B18: LOGIC

Credits: 4

Total Lecture Hours: 108

Course Outcomes:

CO1: Explain the basic concepts essential to a critical examination and evaluation of argumentative discourses.

CO2: Evaluate the four categorical sentence forms, identify and classify the sample sentences

CO3: **Assess** information in order to arrive at reasoned conclusions.

CO4: Assess the validity/ inavlidity of deductive arguments by analysing a categorical syllogism (minor, major and middle terms, and minor and major premises)

CO5: Apply rules of inference and equivalence in proving the validity of deductive arguments.

Mapping of Course Outcomes with Program Specific Outcomes

Mapping	**PSO1**	**PSO2**	**PSO3**	**PSO4**	**PSO5**
CO1	3	2	2	1	1
CO2	2	3	1	1	1
CO3	1	3	3	1	2
CO4	2	3	2	1	1
CO5	2	3	3	1	1

Syllabus Content:

Module I - Introduction to Logic   **(24 Hrs)**

Terms, Propositions and Arguments (brief description) - Deductive reasoning - Difference between deduction and induction - Laws of Thought.

Module II - Categorical propositions   **(30 Hrs)**

Categorical propositions: Classification according to Quality, Quantity and distribution of Terms in AEIO propositions – Eulers - circle - Immediate and Mediate inferences - Square of Opposition - Eduction: Conversion, Obversion.

Module III - Categorical Syllogisms   **(30 Hrs)**

Deductive arguments - Categorical Syllogisms: Rules and Fallacies - Hypothetical and Disjunctive syllogisms: Rules and Fallacies - Dilemma - Rebutting the Dilemma.

Module IV – Scientific Enquiry   **(24 Hrs)**

Induction - Types of Induction: Enumerative induction, Scientific induction and Analogy (brief description) - Characteristics of scientific induction - Stages of scientific induction - Postulates of Induction - Scientific definition of cause according to J.S.Mill - Problem of induction - Grounds of inductive reasoning.

SEMESTER III

CORE COURSE 3

EC3B03B18:   ECONOMICS OF GROWTH AND DEVELOPMENT

Credits: 4

Total Lecture Hours: 90

Course Outcomes

CO1: Describe various dimensions and processes of economic development.

CO2: Explain theories concerning economic development and describe various approaches to development.

CO3: Summarise factors that determine economic growth and development of a Country.

CO4: Evaluate the population dynamics and significance of human resource development.

Mapping of Course Outcomes with Program Specific Outcomes

Mapping	PSO 1	PSO 2	PSO 3	PSO 4	PSO5
CO1	3	2	1	2	2
CO2	3	1	2	1	1
CO3	3	2	1	2	2
CO4	2	3	3	2	2

Syllabus content

Module I Economic Development   **(25 Hrs)**

Growth and Development – meaning – features– determinants- Measures of economic growth and development-GNP-Per capita income-PQLI-HDI-HPI – GDI- GEM-– (GDI, GNH) Development redefined– Development as a total social process – Development as freedom – Development as Liberation – Sen's capabilities approach- – inequality of income and wealth – Gini coefficient – Kuznet's inverted _U'- Hypothesis – Development gap.

Module II Theories and Approaches to Development   **(30 Hrs)**

Classical – Marxian – Schumpeterian-Approaches to Economic Development: Structuralist – dependency - market- friendly approaches (concepts only) – vicious circle of poverty – Stage theories Rostow – low level equilibrium trap – Critical minimum effort thesis – Big push – Lewis model – balanced vs unbalanced growth strategy – Dualistic theories.

Module III Determinants of Development   **(15Hrs)**

Factors affecting economic development (capital, labour and technology)– choice of technique - Trade and economic development .

Module IV Human Resource Development   **(20 Hrs)**

Human Resource and Development - concept of intellectual capital- population growth and economic development – missing women population and economic growth- Malthusian theory of population- Optimum theory of population – theory of demographic transition. – ageing and younging of population.

SEMESTER III

CORE COURSE-4

EC3B04B18- PUBLIC ECONOMICS

Credits: 4
Total Lecture Hours: 72

Course Outcomes

CO1: Describe the nature of public finance and infer the functions of government.

CO2: Show conceptual clarity with regard to features of public goods and market failure.

CO3: Discover the principles of taxation and relate them to various governments tax policies of India.

CO4: Illustrate knowledge about budget concepts and budgetary procedures in India.

CO5: Analyse concepts of public expenditure and public debt and appraise the Indian situation.

CO6: Illustrate the federal structure of the country and financial relationship among states.

Mapping of Course Outcomes with Program Specific Outcomes

Mapping	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	3	1	2	2	2
CO2	3	1	2	1	2
CO3	3	1	2	2	3
CO4	3	2	2	2	3
CO5	3	1	2	2	3
CO6	3	1	2	2	3

Syllabus Content

Module I- Introduction to Public Finance   **(14 Hrs)**

Meaning and subject matter of Public Finance – Public and Private Finance – Fiscal Functions-Allocation, distribution and stabilization- Principles of Maximum Social Advantage: Dalton, Musgrave – Public Goods: Pure and Impure Public Goods, Free rider problem. Private Goods, Mixed Goods and Merit Goods, -Market failure and role of government.

Module II- Public Revenue   **(12Hrs)**

Sources of public revenue -Classification of Taxes - Canons of Taxation, Principles of Taxation-Ability, Benefit and cost of service- Impact, Incidence and shifting of Tax Burden –Effects of Taxation – Measurement of Deadweight loss -Taxable Capacity- Laffer curveMajor Taxes in India and its impact- Value Added Tax in India –Goods and Service Tax (GST-brief history, legislation and impact).

Module III - Budget and its role   **(10 Hrs)**

Classification of budget Concepts: Revenue Account, Capital Account, Fiscal Deficit, Revenue Deficit, Primary Deficit,– Zero Base Budgeting-Budgetary Procedure in India (introduce the recent Central Budget to the students)- Gender Budgeting-Fiscal Policy – Deficit financing

Module IV- Public Expenditure   **(18 Hrs)**

Meaning— Canon's of Public Expenditure-Plan and Non-plan Expenditure-Developmental and Non-developmental expenditure- Wagner's Hypothesis, Peacock - Wiseman Hypothesis, critical limit hypothesis– Effects of Public Expenditure- Public expenditure in India: Its pattern and growth -Public Debt- Types- debt redemption –burden of public debt – public debt in India

Module V- Federal Finance (18 Hrs)

Meaning – Principles of Federal Finance- vertical and horizontal equity in fiscal federalism - fiscal federalism in India – Finance commission – Current Finance Commission- resource transfer from union to states – criteria for transfer of resources – State Finance Commission and Panchayati Raj institutions

SEMESTER IV

Course Code	Course Title	Credits	Course Type
EN4A06B18	Illuminations	4	Common Course I
FR4A06B18	An Advanced course in French –II	4	Common Course II
HN4A06B18	Gadya Aur Ekanki	4	
MA4A06B18	Malayala Gadhyarachanakal	4	
EC4CO3B18	Symbolic Logic	4	Complementary Course I
EC4BO5B18	Macro Economics –I	4	Core Course
EC4BO6B18	Indian Economy- I	4	Core Course

SEMESTER IV

COMMON COURSE I

EN4A06B18 – Illuminations

Credits: 4

Total Lecture Hours: 90

Course Outcomes:

CO1: Discover life lessons through the study of life sketches.

CO2: Explain multiple perspectives of life from the viewpoint of great minds.

CO3: Apply the language skills acquired in academic and non-academic contexts.

CO4: Analyze creative texts with a special focus on human emotions and the spirit of survival.

CO5: Critique the conventional notions of happiness, courage and failure.

Mapping of Course Outcomes with Program Specific Outcomes

Mapping	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	1	2	1	2	1
CO2	1	2	1	2	1
CO3	1	2	1	3	1
CO4	3	2	1	3	1
CO5	2	1	2	3	2

Syllabus Content

Module I- Life Sketches   **(18 hours)**

Helen Keller: Three Days to See

Jesse Owens: My Greatest Olympic Prize

Thus Spoke Sudarshan: An Interview with God's Own Physicist Compiled from E C G

Sudarshan's interviews

Module II- Essays   **(18 hours)**

Stephen Leacock: Are the Rich Happy?

A.G. Gardiner: On Courage

Module III- Speeches   **(18 hours)**

Lafcadio Hearn: On Reading

J.K. Rowling: The fringe benefits of failure and the importance of imagination

Chimamanda Ngozi Adichie: An Ode to Makeup

Module IV- Short Stories   **(18 hours)**

Oscar Wilde: The Nightingale and the Rose

George Orwell: Roucolle, the Miser

John Galsworthy: Quality

Alice Walker: Everyday Use

Module V- Poems   **(18 hours)**

William Ernest Henley: Invictus

Robert Frost: The Road Not Taken

Kahlil Gibran: Of Good and Evil

Maya Angelou: Still I Rise

SEMESTER IV

COMMON COURSE II

FR4A06B18-AN ADVANCED COURSE IN FRENCH II

Credits: 4

Total Lecture Hours: 90 hours

Course Outcomes:

CO1: Develop language, vocabulary and grammar skills.

CO2: Prepare conversations based on various situations and speak about them.

CO3: Articulate the concepts to express one's opinion in a specific situation.

CO4: Ask questions to get meaningful responses in effective communication.

CO5: Describe events or topics based on various daily life situations such as persons, family, time schedules, visiting countries

Mapping of Course Outcomes with Program Specific Outcomes

Mapping	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	2	1	1	2	1
CO2	2	1	1	3	1
CO3	1	2	1	3	1
CO4	1	2	1	2	2
CO5	1	2	2	2	2

Syllabus Content:

Module I   **(30 Hours)**

En voiture Proposer – Accepter – Refuser – Faire des projets- Les routes – La voiture

Module II   **(30 Hours)**

Sur la route Exprimer l'obligation/ L'interdiction – La météo– Le temps

Module III   **(30 Hours)**
Raconter un emploi du temps   Se justifier – Le tourisme - Les pays et les continents

SEMESTER IV

COMMON COURSE II

HN4AO6B18 - GADYA AUR EKAANKI

Credits: 4

Total Lecture Hours: 90

Course Outcomes:

CO1: Discuss the authors contribution to Hindi Literature

CO2: Summarise the central theme and other relevant details of all literary works.

CO3: Illustrate the socio-political and cultural concerns of the Author

CO4: Critique excerpts of the Prose and One Act Plays

CO5: Communicate in oral and written form of Hindi with competence.

Mapping of Course Outcomes with Program Specific Outcomes

Mapping	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	1	2	1	2	1
CO2	1	2	1	2	1
CO3	1	2	2	3	1
CO4	1	2	2	3	1
CO5	1	1	1	3	1

Syllabus Content:

Module- I   **(22 hours)**

1. Aaiye hum vriksh devta ki aaradhana karen- Dr. Kishorilal vyas

2. Raajniti ka batvaara- Harishankar parsai

3. Deep daan – Ramkumar verma

Module- II   **(24 hours)**

4. Himachadit uttung shikhar aur dhuli hariyali – Vijay kumar   sandesh

5. Kaphan chor ka beta – Ushabaala

6. Bahu ki vida- Vinod rastogi

Module- III   **(22 hours)**

7. Jab mai fail hua- Ramkumar Verma

8. Jaan se pyare – Mamta Kaaliya

9. Sati – G.K. Harjeeth

Module- IV   **(22 hours)**

10. Jab intizar hussain apni janmabhoomi laute – Azhar vajahat

11. Hari ghaas par ghante bhar – Surendra verma

SEMESTER IV

COMMON COURSE II

MA4A06B18 - മലയാള ഗദ്യരചനകൾ

Credits: 4

Total Lecture Hours: 90

Course Outcomes:

CO1: മലയാള ഗദ്യസാഹിത്യത്തിലെ സമകാലിക വിഷയങ്ങൾ ചർച്ച ചെയ്യുക

CO2: കേരളീയസംസ്കാര - കലാപരിണാമം , ചരിത്രം, ആത്മകഥ എന്നിവ അപഗ്രഥിക്കുക

CO3: ഗദ്യപാഠങ്ങളിലൂടെ സമകാലികവിഷയങ്ങളെ വിലയിരുത്തുക

CO4: സമകാലിക സാമൂഹിക വിഷയങ്ങളെ വിമർശനാത്മകമായി നിരൂപണംചെയ്യുക

CO5: വിവിധ വിഷയങ്ങളെ ആസ്പദമാക്കി ലേഖനങ്ങൾ തയാറാക്കുക. സ്വാനുഭവങ്ങൾ വിവിധ ആഖ്യാന രൂപങ്ങളിലൂടെ ആവിഷ്കരിക്കുക.

Mapping of Course Outcomes with Program Specific Outcomes

Mapping	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	1	1	2	2	1
CO2	1	1	1	3	1
CO3	1	2	2	3	1
CO4	1	2	1	3	1
CO5	1	2	1	3	1

പാഠഭാഗങ്ങൾ

പുസ്തകങ്ങൾ : ഗദ്യാരാമം , ഓർമ്മകൾ ചന്ദനഗന്ധം പോലെ

ഖണ്ഡം ഒന്ന്   **15 മണിക്കൂർ**

1. കാളിദാസനും കാലത്തിൻറെ ദാസൻ - ജോസഫ് മുണ്ടശ്ശേരി
2. മേഘസന്ദേശവിവർത്തനങ്ങൾ - ഡോ. എൻ .അജയകുമാർ
3. മാതൃഭാഷയിലേക്കു വീണ്ടും - എൻ .വി . കൃഷ്ണവാര്യർ

ഖണ്ഡം രണ്ട്   **20 മണിക്കൂർ**

1. വാക്കുകളുടെ വിസ്മയം - എം .ടി.വാസുദേവൻനായർ
2. മാറുന്ന മലയാള സംസാരഭാഷ - ടി .ബി .വേണുഗോപാലപ്പണിക്കർ
3. നമ്മുടെ അടുക്കള തിരിച്ചുപിടിക്കുക - സാറാ ജോസഫ്
4. കലയും കലാദർശനവും - ഡോ. ജെ . ഉണ്ണികൃഷ്ണപിള്ള

ഖണ്ഡം മൂന്ന്   **15 മണിക്കൂർ**

1. ചെമ്പൈ വൈദ്യനാഥ ഭാഗവതർ സംഗീതത്തിലെ സിംഹനാദം - ഇന്ദിരാമേനോൻ
2. ഈശ്വരപിള്ളയെ ആരോർക്കുന്നു - പി. കെ . രാജശേഖരൻ
3. രവിവർമ്മ - വിജയകുമാർ മേനോൻ

ഖണ്ഡം നാല്   **15 മണിക്കൂർ**

1. പ്രകാശത്തിൻറെ ആയിരം തടവറകൾ - ജീവൻ ജോബ് തോമസ്
2. ജനാധിപത്യ വിദ്യാഭാസം ചില ചിന്തകൾ - ഡോ. കെ .എൻ. പണിക്കർ
3. ഞങ്ങൾ നിങ്ങൾക്ക് ഭൂമി വിറ്റാൽ - സിയാറ്റിൽ മൂപ്പൻ

ഖണ്ഡം അഞ്ച്   **25 മണിക്കൂർ**

1. ഓർമ്മകൾ ചന്ദനഗന്ധം പോലെ - ബി. സരസ്വതിയമ്മ

SEMESTER IV

COMPLEMENTARY COURSE I

EC4CO3B18 - SYMBOLIC LOGIC

Credits: 4

Total lecture hours - 108 hrs

Course Outcomes:

CO1: Explain basic notions of symbolic logic and express natural language sentences in symbolic language by means of symbolization key.

CO2: Explain validity of natural language arguments from the symbolic logical point of view, analyse propositions and arguments in propositional logic by truth tables and construct truth table of a proposition

CO3: Choose equivalent propositions and identify status of a proposition

CO4: Analyse arguments in propositional logic by natural deduction method and inspect validity of an argument by a deduction

CO5: Evaluate arguments in propositional logic by truth tree method

Mapping of Course Outcomes with Program Specific Outcomes

Mapping	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	3	2	1	1	1
CO2	2	3	1	1	1
CO3	2	2	3	1	1
CO4	2	3	2	2	1
CO5	1	2	3	1	1

Syllabus Contents

Module I – Introduction to Symbolic Logic   **(18 Hrs)**

Logic and Language: three basic functions of language - symbolic logic and traditional logic - advantages of symbolization.

Module II - Propositional Logic   **(24 Hrs)**

Statements and Arguments - constants and variables - truth and validity - simple and compound statements - truth-functional compound statements: conjunction, negation, disjunction, implication and bi-conditional.

Module III - Propositional Logic : Truth Table Technique   **(24 Hrs)**

Propositional Logic (Contd.) - Truth table technique for problem solving - Truth tables for Propositions - Statement forms: Tautology, Contradiction and Contingent - Truth tables for Arguments – Testing for Validity - Indirect Truth Table method.

Module IV - Propositional Logic : Formal Proof of Validity   **(24 Hrs)**

Natural Deductions in Propositional Logic: Rules of Inference – Rules of Implication, Rules of Replacement and their applications - Conditional Proof.

Module V - Predicate Logic: Quantification   **(18 Hrs)**

Quantification Theory - Symbols and Translation

SEMESTER IV

CORE COURSE I

EC4BO5B18 - MACRO ECONOMICS –I

Credits: 4

Total lecture hours - 90 hrs

Course Outcomes:

CO1: Express the basic concepts of Macro Economics.

CO2: Examine classical theory of output, employment and income and macro policy prescriptions in this regard.

CO3: Summarise main tenets of Keynesian economics.

CO4: Evaluate the significance of Investment and determinants of investment.

CO5: Analyse various Orthodox Keynesian Models.

Mapping of Course Outcomes with Program Specific Outcomes

Mapping	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	3	1	2	1	1
CO2	3	1	2	3	1
CO3	3	1	2	1	2
CO4	2	2	3	2	1
CO5	2	2	1	1	1

Syllabus Content:

Module I: Introduction to Macroeconomics   **(20 Hrs)**

Micro and Macroeconomics - Macro statics and macro dynamics- National Income-concepts and their interrelationships- methods of measurement of national income- value added, income and expenditure methods-social accounting method-estimation of national income in India-Environmental concerns in national accounts- green accounting- Net Economic Welfare.

Module II: Classical Macroeconomics   (20 Hrs)

Main postulates of classical macroeconomics- Say's Law of Markets –Classical theory of employment and output determination – wage price flexibility and full employment equilibrium-classical theory of interest- quantity theory of money- Cash transactions and Cash balances approaches - Classical dichotomy and neutrality –Pigou effect- Keynes criticism of classical theory.

Module III: Keynesian Macroeconomics   (15 Hrs)

Keynesian Revolution –Main postulates of the general theory- principle of effective demand-ADF-ASF-Consumption function-Psychological law of consumption- Savings function-graphical, algebraic and numerical illustrations of APC, MPC, APS, MPS- Short-run and long run consumption function -factors determining consumption.

Module IV: Investment   (10 Hrs)

Investment demand Function-determinants of investment- MEC and MEI and the role of expectations.

Module V: Orthodox Keynesian Models   (25 Hrs)

Keynesian cross -The effects of changes in autonomous investment on income-multiplier analysis-static and dynamic multiplier- three sector Keynesian Cross model-The effects of changes in taxes and public expenditure on income-Balanced budget multiplier-Four sector Keynesian Cross model-foreign trade multiplier (concept only). Two sector IS-LM model of income determination (model only).

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SEMESTER IV

CORE COURSE

EC4BO6B18 - INDIAN ECONOMY- I

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Credits: 4

Total lecture hours - 90 hrs

Course Outcomes:

CO1: Describe the characteristics of Indian economy before the colonial period and state the consequences of rise and growth of British rule in India

CO2: Relate demographic concepts to the population statistics of India and describe its population scenario

CO3: Explain the objectives of planning and infer the achievements of Indian economy during the planning period

CO4: Evaluate the features of Economic Reforms and analyse the performance of the economy during the reform period.

CO5: Develop a comprehensive understanding about the macroeconomic indicators of India.

CO6: Summarise various development issues in the context of economic development of India.

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Mapping of Course Outcomes with Program Specific Outcomes

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Mapping	**PSO1**	**PSO2**	**PSO3**	**PSO4**	**PSO5**
CO1	2	1	2	2	2
CO2	3	2	2	2	2
CO3	2	3	2	2	3
CO4	3	3	2	3	2
CO5	3	2	2	3	3
CO6	3	1	2	2	2

Syllabus Content:

Module I- Indian Economy before Independence   (30 Hrs)

Structure of the Indian Economy before the colonial period- villages and towns, industries and handicrafts-Indian economy during the colonial period economic consequences of British rule-Drain of wealth.

Module II- Demographic Features-   (20 Hrs)

Population size, structure (sex and age) characteristics population change rural urban migrations, occupational distribution, problems of over population, demographic dividend, population policy, Gender inequality, women empowerment.

Module III Planning in India   (25 Hrs)

Mixed Economic Framework - Meaning and rationale of Planning-Basic Strategies, Objectives and Achievements of Planning in India-Strategies of 12th Plan, Inclusive Development-NITI Aayog - New Economic Reforms and the rationale behind economic reforms Liberalisation, Privatisation and Globalisation Structural Adjustment Programmes progress of privatisation and globalisation.

Module IV-   (5 Hrs)

Trends in India's National Income and Per capita Income- Growth Trends of Primary, Secondary and Tertiary sectors

Module V Development Issues of India   (10 Hrs)

Magnitude of poverty and inequality in India - unemployment, black money and corruption rising prices - energy crisis- Micro finance and its significance importance of infrastructure in India's economic development.

SEMESTER V

Course Code	Course Title	Credits	Course Type
EC5BO7B18	Environmental Economics	4	Core Course
EC5BO8B18	Quantitative Techniques for Economic Analysis	4	Core Course
EC5BO9B18	Macro Economics – II	5	Core Course
EC5B10B18	Introductory Econometrics	4	Core Course
EC5D01aB18	Gender Economics	3	Open course Offered by the Department
EC5D01bB18	Logic and Reasoning Aptitude	3	Open course Offered by the Department
EC5D01cB18	Fundamentals of Economics		
EC5D01dB18	Economics of Population		

SEMESTER V

<u>CORE COURSE</u>

EC5B07B18: ENVIRONMENTAL ECONOMICS

Credits: 4

Total Lecture Hours: 90

Course Outcomes:

CO1: Identify the significance of ecosystems and different natural resources

CO2: Analyze the importance of Biodiversity and its conservation

CO3: Summarize the basic concepts of Environmental Studies and various environmental summits

CO4: Discuss about environmental economic valuation and its application.

CO5: Evaluate the various aspects of human rights and environmental rights

<u>Mapping of Course Outcomes with Program Specific Outcomes</u>

Mapping	**PSO1**	**PSO2**	**PSO3**	**PSO4**	**PSO5**
CO1	1	1	2	2	1
CO2	1	2	1	3	2
CO3	2	1	1	3	2
CO4	3	1	1	2	2
CO5	2	3	1	3	3

<u>Syllabus Content:</u>

Module I - Multidisciplinary nature of environmental studies, Natural Resources, Ecosystems   (18 Hrs)

Multidisciplinary nature of environmental studies :   Definition, scope and importance, Need for public awareness.

Natural Resources:Renewable and non-renewable resources : Natural resources and associated problems. Forest resources: Use and over-exploitation, deforestation, case studies. Timber extraction, mining, dams and their effects on forest and tribal people. Water resources: Use and over-utilization of surface and ground water, floods, drought, conflicts over water, dams-benefits and problems. Mineral resources: Use and exploitation, environmental effects of extracting and using mineral resources, case studies. Food resources: World food problems, changes caused by agriculture and overgrazing, effects of modern agriculture, fertilizer-pesticide problems, water logging, salinity, case studies. Energy resources: Growing energy needs, renewable and non renewable energy sources, use of alternate energy sources, Case studies. Land resources: Land as a resource, land degradation, man induced landslides, soil erosion and desertification. Role of individual in conservation of natural resources. Equitable use of resources for sustainable lifestyles

Ecosystems : Concept of an ecosystem, Structure and function of an ecosystem, Producers, consumers and decomposers, Energy flow in the ecosystem, Ecological succession, Food chains, food webs and ecological pyramids, Introduction, types, characteristic features, structure and function of the Forest ecosystem.

Module II-Biodiversity and its conservation ,Environmental Pollution and Social issues of Environment   (26 Hrs)

Introduction, Biogeograhical classification of India, Value of biodiversity: consumptive use, productive use, social, ethical, aesthetic and option values, India as a mega-diversity nation, Hot-sports of biodiversity, Threats to biodiversity: habitat loss, poaching of wildlife, man-wildlife conflicts, Endangered and endemic species of India.

Environmental Pollution **:**Definition, Causes, effects and control measures of: - Air pollution, Water pollution, Soil pollution, Marine pollution, Noise pollution, Thermal pollution, Nuclear

hazards, Solid waste Management: Causes, effects and control measures of urban and industrial wastes, Role of an individual in prevention of pollution, Pollution case studies, Disaster management: floods, earthquake, cyclone and landslides.

Social Issues and the Environment **:**Urban problems related to energy, Water conservation, rain water harvesting, watershed management, Resettlement and rehabilitation of people: its problems and concerns, Case studies, Environmental ethics: Issues and possible solutions, Climate change, global warming, acid rain, ozone layer depletion , nuclear accidents and holocaust, Case studies, Consumerism and waste products, Environment Protection Act, Air (Prevention and Control of Pollution) Act, Water (Prevention and control of Pollution) Act, Wildlife Protection Act, Forest Conservation Act, Issues involved in enforcement of environmental legislation, Public awareness

Module – III   Economics and Environment   (16Hrs)

Environmental Economics – Definition – Scope – Meaning – importance – Environment-Economy interaction (linkages) – material balance model – ecosystem – structure and functions – relation between environment and development – Environment as a necessity and luxury-environmental issues and global concern-Stockholm Conference – Helsinki Convention – Montreal Protocol – Kyoto Protocol – Rio Summit – Paris Convention. Population growth and Environment – market failure – tragedy of commons-sustainable development-policy approach to sustainable development(An overview only).

Framework and Criteria for Environmental Analysis   (18Hrs)

Evaluation of environmental benefits – Contingent Valuation Method – Hedonic approach – Travel Cost method – Preventive Expenditure Method - Surrogate Market Approach – Property Value Approach and Wage-differential approach – Cost- benefit analysis – UNIDO Analysis – Little- Mirrlees Approach - Environmental Impact Analysis. Pollution Control – Socially Optimum level of Pollution – Environmental Policies and Legislations in India.

Module – V Human Rights ,environmental rights and related institutions   (12 Hrs)

 An Introduction to Human Rights, Meaning, concept and development, Three Generations of Human Rights (Civil and Political Rights; Economic, Social and Cultural Rights).

Human Rights and United Nations : contributions, main human rights related organs - UNESCO,UNICEF, WHO, ILO, Declarations for women and children, Universal Declaration of Human Rights: Human Rights in India :Fundamental rights and Indian Constitution, Rights for children and women, Scheduled Castes, Scheduled Tribes, Other Backward Castes and Minorities

Human Rights and environmental rights **:** Right to Clean Environment and Public Safety: Issues of Industrial Pollution, Prevention, Rehabilitation and Safety Aspect of New Technologies such as Chemical and Nuclear Technologies, Issues of Waste Disposal, Protection of Environment

Conservation of natural resources and human rights: Reports, Case studies and policy formulation. Conservation issues of western ghats- mention   Gadgil committee report, Kasthurirengan report. Over exploitation of ground water resources, marine fisheries and mining etc.

SEMESTER V

CORE COURSE

EC5B08B18: QUANTITATIVE TECHNIQUES FOR ECONOMIC ANALYSIS

Credits: 4

Total Lecture Hours: 108

Course Outcomes

CO1: Explain the mathematical concepts used in economic analysis

CO2: Examine the applications of matrices and calculus

CO3: Analyze data using various statistical and mathematical techniques for business decisions.

CO4: Identify and analyze problems, and select appropriate decision tools to solve them

CO5: Apply statistical techniques to solve economics problems

.**Mapping of Course Outcomes with Program Specific Outcomes**

Mapping	PSO 1	PSO 2	PSO 3	PSO 4	PSO5
CO1	3	2	2	1	2
CO2	2	3	2	1	2
CO3	2	3	2	1	3
CO4	2	3	3	2	2
CO5	1	3	2	2	3

Syllabus content

Module I   Basic Mathematics for Economic Analysis   (20 Hrs)

Basic concepts: variables, constants, parameters, equations, exponents and logarithms. The real number system: properties of real numbers and types of numbers–limitations. Sequences and progressions- arithmetic and geometric. Applications of progressions in economics: problems relating to simple interest, compound interest, depreciation of assets and Net Present value.

Module II   Set Theory and Matrices   (20 Hrs)

Set theory - types of sets -set operations – Venn diagrams. Relations and functions: ordered pairs and Cartesian product. Functions: Types - Important economic functions. Linear and Quadratic-Solution to system of equations up to three unknowns- Matrices-Types, Matrix manipulations and their rules, Order of Matrix, Transpose of Matrix-Determinants up to order 3x3- Properties and Value of determinant, Minor and Cofactor, Inverse and Cramer's Rule.

Module III   Calculus   (20 Hrs)

Calculus- Limits & Continuity, Derivatives: Meaning and significance - Rules of differentiation – First order and second order derivatives – Maxima and Minima of functions. Applications in economics.

Module IV   Role of Statistics in Economics Functions   (28 Hrs)

Role of Statistics in Economics. Functions–limitations. Methods of primary data collection-census and sampling methods - Preparation of schedules and questionnaires, sample designs– random sampling (SRS, systematic, stratified, cluster and multistage sampling) and non-random sampling.

Classification and Tabulation of Statistical data: Characteristics and types of classification-types of tables-difference between classification and tabulation. Presentation of data using charts and diagrams. (Histogram, Polygon, frequency curve, Bar chart, Pie diagram, Ogives)

Module V   Central Tendency and Measures of Dispersion   (20 Hrs)

Moments: central and raw moments (for ungrouped data only). Central tendency: Various Measures - Properties, merits & demerits of Arithmetic mean, median, mode, geometric mean and harmonic mean – applications in economics.

Dispersion: Various Measures, absolute and relative measures – Range, quartile deviation, mean deviation, standard deviation – Lorenz curve and its economic applications. Skewnesss and Kurtosis (concepts).

SEMESTER V

CORE COURSE

EC5B09B18: MACRO ECONOMICS-II

Credits: 5

Total Lecture Hours: 108

Course Outcomes:

CO1: Explain the Post Keynesian theories of consumption function and basis of investment decisions in the economy.

CO2: Describe various Post Keynesian theories on demand for money.

CO3: Comprehend causes and remedies of inflation and inflation -unemployment tradeoff.

CO4: Summarise the significance of Macroeconomic policies.

CO5: Appraise Post Keynesian Schools of Macroeconomic Thoughts

Mapping of Course Outcomes with Program Specific Outcomes

Mapping	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	3	1	1	1	2
CO2	3	2	1	1	2
CO3	3	1	2	1	3
CO4	3	2	3	1	3
CO5	3	1	2	1	3

Syllabus Content:

Module I- Theories of Consumption and Investment   (25 Hrs)

Kuznet's Consumption Puzzle-Conflict between short-run and long run consumption functions-Relative Income hypothesis– Permanent Income Hypothesis- Life-Cycle Hypothesis Theory of Capital and Theory of Investment- Present Value Criterion- Accelerator theory of Investment-Tobin's q theory.

Module II- Theory of Money   (10Hrs)

Classical approach – Keynesian liquidity preference theory and interest rate determination-liquidity Trap-Keynes effect.

Module III- Money, Inflation and Unemployment   (28 Hrs)

Money-Supply of money-Sources- High-Powered money-Money Multiplier- Measures of Money Supply in India. Inflation: Types – Demand-Pull and Cost-Push Inflation – Inflationary and deflationary gap-Causes and effects of inflation –Control of inflation-Types of unemployment-Okun's Law-Inflation and unemployment- the Philips Curve-Stagflation- long run Phillips Curve-Natural rate of Unemployment.

Module IV- Fluctuations, Monetary and Fiscal Policies   (20 Hrs)

Trade Cycles- Types and Phases- Stabilization Policies-Active or Passive; Monetary Policy Objectives and Targets; Fiscal and Monetary policy in the IS-LM context (closed economy only)-Financial Crisis & Regulatory response.

Module V- Post Keynesian Schools of Macroeconomic Thoughts   (25Hrs)

Monetarism- Monetarist propositions and the Quantity Theory Restatement -New Classical Economics- Rational Expectations(concept)- Lucas' Critique (Policy ineffectiveness proposition) Supply Side Economics- Tax cut policy and the Laffer Curve Analysis -New Keynesian School – Nominal Wage Rigidity Model (Overview)

SEMESTER V

CORE COURSE

EC5B10B18: INTRODUCTORY ECONOMETRICS

Credits: 4

Total Lecture Hours: 90

Course outcome

CO1: Describe the core concepts and techniques in econometrics, with special focus on Classical Linear Regression Model.

CO2: Analyse the assumptions of CLRM and explain their implications.

CO3: Explain the use of dummy variables in regression analysis.

CO4: Explain lagged models in econometrics.

CO5: Apply OLS method to explain relationships between economic variables

Mapping of Course Outcomes with Program Specific Outcomes

Mapping	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	3	2	1	1	2
CO2	1	2	3	1	1
CO3	3	1	1	2	2
CO4	3	2	2	1	3
CO5	3	2	1	1	3

Syllabus Content

Module I: **Introduction to Econometrics (10 Hrs)**

Definition and Scope of Econometrics. The methodology of econometric research – stochastic term –interpretation and its significance -Properties of estimators

Module II: **Simple Regression Model (20 Hrs)**

Sample regression function (SRF)- The method of OLS—Advantages of OLS – assumptions of Classical Linear Regression Model - Gauss - Markov theorem - Goodness of the Fit—R Square

Module III Violations of OLS Assumptions (25 Hrs)

Heteroscedasticity— nature, estimation in its presence—detection and remedial measures—Autocorrelation— nature and estimation in its presence—detection and remedial measures—Multicollinearity—nature, estimation in its presence—detection and remedial measures

Module IV: **Dummy Variable (15 Hrs)**

Concept and uses – summary variables - qualitative data-seasonal analysis- use of dummy variables for pooled data - proxy variable

Module V: **Lag Models (20 Hrs)**

Lag in econometric models- concepts – Koyck model - partial adjustment and adaptive expectation models -Application of econometric methods - estimatijon of demand and supply functions, production and cost functions –consumption and investment functions

OPEN COURSE: A

SEMESTER V

EC5D01aB18: GENDER ECONOMICS

Credits : 3

Total Lecture Hours: 72

Course Outcomes

CO1: Explain the theoretical concepts in the area of Gender economics

CO2: Examine the gender review of socio economic and demographic development programmes and strategies

CO3: Analyze gender influences on economic decisions

CO4: Analyse the identified problems, and select appropriate decision tools in order to solve them

Syllabus content

Module I–Basic Concepts   **(16 Hrs)**

The subject of Gender Economics-Interdisciplinary Approach in gender studies-HDI and incorporation of gender factor into HDI-Gender equality indices-GDI and GEM. Gender status in India and Kerala-Concept of Missing women

Module II- Economic Growth And Gender Equality   **(20 Hrs)**

Women's contribution to GDP-Feminization of poverty – Basic causes-Impact of gender equality on economic growth and socio economic development-Positive and negative impact of globalization on gender status-Occupational segregation-Gender discrimination in Education, Health, Employment, Political participation and decision making

Module 3 Demographic Changes And Gender Status   **(16 Hrs)**

The gender factor in demographic development-Global demographic changes-Gender shift and demographic development-Impact on gender status-Gender differences in mortality- Concepts and factors-Biological factors.

Module 4 Gender Policy   **(20 Hrs)**

Objectives and methods of gender policy-Global and National gender policy-Gender inequality indicators- Indicators of gender differences in socio economic development-Main gender issues in socio economic development in developed and developing countries-International organizations and the role of gender studies and gender policy implementation-Gender Budgeting-Approaches and principles-Budgeting policies to reduce gender disparities.

SEMESTER V

OPEN COURSE: B (Offered for other programmes)

EC5D01bB18: LOGIC AND REASONING APTITUDE

Credits: 3

Total Lecture Hours: 72

Course Outcomes

CO1: Explain the basic concepts essential to a critical examination and evaluation of argumentative discourses.

CO2: Evaluate the four categorical sentence forms, identify and classify the sample Sentences and assess information in order to arrive at reasoned conclusions

CO3: Assess the validity/ invalidity of deductive arguments by analysing a categorical syllogism (minor, major and middle terms, and minor and major premises)

CO4: Apply rules of inference and equivalence in proving the validity of deductive arguments.

 Syllabus content

Module I – Introduction to Logic   **(8 Hrs)**

What is Logic ? Logic as a science of reasoning - The value and uses of Logic.

Module II – Categorical Propositions   **(16 Hrs)**

Propositions – Categorical – Quality, Quantity and distribution – Venn diagram and Square of Opposition – Conversion, Obversion and Hypothetical and Disjunctive Propositions.

Module III – Categorical Syllogism   **(12 Hrs)**

Syllogism – Categorical – Rules and fallacies, Hypothetical – Rules and fallacies, Disjunction-Rules and fallacies.

Module IV - Propositional Logic – Truth Table Method   (20 Hrs)

Propositional Logic: Symbols and Translation – Truth Function – Truth Table for testing the validity of Propositions and Argument (Direct and Indirect method).

Module V - Propositional Logic – Natural Theory of Deduction   (16 Hrs)

Natural Deductions in Propositional Logic – Rules in Inference and its application- Gentzen system (Tree method).

SEMESTER V

OPEN COURSE: C (Offered for other programmes)

EC5D01cB18: FUNDAMENTALS OF ECONOMICS

Credits:3

Duration: One Semester

Total Lecture Hours: 72

Course outcomes

CO1: Examine the basic economic concepts in Economics

CO2: Explain the concepts of public economics

CO3: Analyse financial system and the international trade scenario

CO4: Illustrate the development trail of our country

Module I- Basic Concepts   **(12 Hrs)**

Economics – micro and macro – deduction and induction – basic economic problems-production possibility curve. Utility - total and marginal. Law of Demand – elasticity of demand - price elasticity - types. Law of supply. National income – meaning - components of national income

Module II- Public Economics   **(16 Hrs)**

State vs Market - public revenue - public expenditure – tax and non-tax revenue – direct and indirect taxes – goods and service tax in India - budget – types - fiscal deficit - revenue deficit - public debt – trade cycle and its phases - fiscal and monetary policies as tools for combating inflation and deflation.

Module III-Financial System and International Trade   **(24 Hrs)**

Negotiable and non-negotiable instruments – cheques – drafts - bills of exchange – promissory notes-letter of credit - certificate of deposits – commercial papers - banking and non-banking institutions - commercial banks — Core Banking, Internet Banking, Mobile Banking, ATM/Debit & Credit Cards,IFSC,NEFT,RTGS–NPA in Indian banking sector RBI – functions - money and capital market – major financial instruments – shares, debentures and bonds – Insurance: meaning, nature and types - stock exchange – BSE, NSE – stock market indices – SEBI - mutual funds. Terms of trade - balance of trade - balance of payments - foreign exchange - exchange rate – spot – forward – fixed – floating - IMF, World Bank – WTO

Module IV- Indian Economic Development   **(20 Hrs)**

An overview of Planning in India - Planning Commission –NITI Aayog- Finance Commission – Green revolution – changing pattern of India's industrialisation - Liberalization - Privatization - Globalization (LPG) – Major features of population in India and Kerala - Kerala model of development

SEMESTER V

OPEN COURSE: D (Offered for other programmes)

EC5D01dB18: ECONOMICS OF POPULATION

Credits:3

Duration: One Semester

Total Lecture Hours: 72

Course Outcomes

CO1: Examine the basic concepts of demography

CO2: Analyse the composition of population

CO3: Examine the various theories of population

Syllabus Contents

Module I- Introduction to the study of Demography   (20 Hrs)

Definition, scope and historical background of formal demography - Recent population trends World - More Developed Regions - Less developed Regions and Least Developed Regions of the world - components of population growth - population composition- age composition in more developed and less developed regions of the world - population growth in India. Basic demographic methodology - rates in demography- birth (fertility) - mortality - marriage (Nuptiality) - infant mortality rate- computation of infant mortality rate –population projection- sources of population data - sources of demographic data in India.

Module II- Theories of population   (12 Hrs)

Thomas Robert Malthus - Micheal Thomas Sadler - an overview of sociological theories - optimum theory of population- demographic transition theory- demographic dividend - population and economic growth - economic characteristics of population- economically active population- work participation and unemployment - working population and work participation rate in India.

Module III- Composition of Population   (20 Hrs)

Pattern of sex and age structure in developed and developing countries- determinants of age and sex structure- demographic effects of age - sex- structural transition- ageing and younging of population- feminization. Determinants of population ageing - ageing index-median age - dependency ratio - potential support ratio and parental support ratio - Madrid plan - concepts of active ageing - healthy ageing - successful ageing and productive ageing- age structure transition and population ageing in India and Kerala.

Module IV- Fertility - Mortality – Nuptiality   (12 Hrs)

Trends and differentials in fertility transition in India and Kerala - causes of demographic changes in South India- trends and differentials in mortality in India and Kerala- Foetal and infant mortality - life expectancy - still birth, abortion and prenatal mortality - laws relating to abortion in India- epidemiological transition- morbidity in Kerala.

Module V – Migration   (8 Hrs)
Concepts - types - laws- Theories of migration - Todaro- Fei-Rani's models - cause and effect of migration

SEMESTER VI

Course Code	Course Title	Credits	Course Type
EC6B11B18	Quantitative Economics	4	Core Course
EC6B12B18	Indian Economy– II	4	Core Course
EC6B13B18	Money And Financial Markets	4	Core Course
EC6B14B18	International Economics	4	Core Course
EC6B15aB18	Business Economics		
EC6B15bB18	Mathematical Economics	3	Choice Based Core Course
EC6B15cB18	History Of Economic Thought		

SEMESTER VI

CORE COURSE

EC6B11B18: QUANTITATIVE ECONOMICS

Credits: 4

Total Lecture Hours: 108

Course outcomes

CO1: Examine the concepts of economics and use economic theory to analyze statistical results.

CO2: Apply statistical tools to study probability and various types of distributions in business decision making

CO3: Explain concept of correlation, analyze and interpret covariance and correlation coefficient, illustrate ordinary least squares and use it to estimate regression coefficient.

CO4: Formulate a statistical hypothesis and test it properly.

CO5: Describe the components of time series, apply time series analysis in business scenarios, illustrate the different types of index numbers, and calculate index numbers.

Mapping of Course Outcomes with Program Specific Outcomes

Mapping	PSO 1	PSO 2	PSO 3	PSO 4	PSO5
CO1	3	2	2	1	2
CO2	3	2	2	1	3
CO3	2	3	2	1	2
CO4	3	3	2	2	2
CO5	1	2	3	1	2

Syllabus content

Module I   Theory of Probability   (30 Hrs)

Scope of probability in Economics- the case of uncertainty - Concepts– Rules of probability (addition and multiplication theorem – statement only) – Different approaches – Important terms related to probability (Random experiments, sample space,events) – Simple economic problems based on probability theorems – Probability distributions – binomial and normal – estimation of

probabilities using binomial theorem and standard normal table - their properties and uses and applications in Economics.

Module II   Statistical Inference- Estimation and hypothesis testing   (25 Hrs)

Estimation-distinction between estimate and estimator; parameters and statistics; point and interval estimation; and the properties of estimators. Testing of hypothesis – testing, simple and composite hypothesis - null and alternative hypothesis –Type I and Type II errors, significance level and power, concept of P value in testing, test procedure. Z and t tests- (Testing the mean of a population - large and small sample, Testing the difference between two means of independent and paired samples, testing the proportion of a population) F- test (testing the equality of variances of two populations) chi square (testing the independence of two attributes and goodness of fit).

Module III Correlation and Regression Analysis   (25 Hrs)

Correlation- significance and types– measurement: scatter diagram, Karl Pearson's correlation coefficient, (for ungrouped data only) and Rank correlation. Cause and effect relationships: Regression- meaning and significance-regression equations/regression lines-the line of best fit – prediction based on regression equations. Relation between correlation and regression.

Module IV   Analysis of time series   (5 Hrs)

Time series: meaning, definition, uses, components – additive and multiplicative models, measurement of trend- free hand method, semi average, moving average and least square methods, Seasonal Indices.

Module V   Index Numbers   (23 Hrs)

Index Numbers – Different types – Importance and Limitations, Problems in construction- Weighted and Unweighted price index numbers – different methods of constructing Price Indices – Simple aggregative, simple average of price relatives, weighted aggregative: Laspeyer's, Paasche's, Fisher's and Marshall Edgeworth's Indices, Weighted Average of price relative methods. Cost of Living Index Numbers: significance, uses and methods of construction – Aggregate Expenditure Method and Family Budget Methods – WPI. Test of Index Numbers.

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SEMESTER VI

CORE COURSE

EC6B12B18: INDIAN ECONOMY– II

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Credits: 4
Total Lecture Hours: 90

Course outcomes

CO1: Assess the performance of agriculture sector in the Indian economy.

CO2: Analyse industrial reforms and policies in the post-independence period.

CO3: Describe the structural transformation of the Indian economy and identify contributions made by the service sector to the GDP.

CO4: Examine India's trade policies and trade relations with the world.

CO5: Develop a comprehensive understanding about the features of Kerala economy and its economic performance.

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Mapping of Course Outcomes with Program Specific Outcomes

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Mapping	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	3	2	1	3	2
CO2	3	2	2	2	2
CO3	3	2	2	2	1
CO4	3	2	2	3	3
CO5	2	2	2	3	3

Syllabus Content

Module I : Agriculture   **(20   Hrs)**

Nature and trends in agricultural production and productivity – Problems of Indian Agriculture - Green revolution, land reforms in India, Rural credit and agricultural marketing – New Agricultural Policy – Changes in Land use and Cropping Pattern-Agricultural Finance

and Issues - Agriculture during Economic Reform Period - WTO and Indian Agriculture

Module II : Industry   (20 Hrs)

Industrial development during the plan period-Industrial policies (1948-1991). Recent industrial policies – MRTP Act, FERA and FEMA – Growth and problems of cottage and small scale industries, Role of public sector enterprises in India's industrialisation – Public Sector in the post reform period - disinvestment policy - Impact of economic reforms on Indian Industrial sector.

Module III Services   (10Hrs)

Growth trends and performance of Service sector- Emerging services sector in India – Recent developments in insurance industry in India.-Indian macro economic growth, estimation of growth rates, sector wise growth pattern, structural change and economic growth in India Growth of IT sector in India.

Module IV: External Sector   (20 Hrs)

Role of Foreign trade - trends in exports and imports- Composition and direction of India's foreign trade- Balance of payment crisis and new economic reforms –. Trade and Currency Reforms, - foreign capital - FDI, portfolio investments and MNCs.

Module V: Kerala   (20 hrs)

Kerala model of development – Macro economic profile of Kerala- Demography, Sectoral GSDP, Comparison with southern states- PCI- Poverty estimates- Urbanisation- Prices- State Finance- Banking- Structural change and economic growth in Kerala- Decentralised planning in Kerala.

Land reforms - current issues in agriculture – food crisis – changes in cropping pattern – agricultural indebtedness – unemployment - IT sector in Kerala - fiscal crisis in Kerala, Gulf migration, energy policy and energy crisis.

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SEMESTER VI

CORE COURSE

EC6B13B18: MONEY AND FINANCIAL MARKETS

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Credits: 4

Total Lecture Hours: 108

Course Outcomes:

CO1: Explain the structure of financial system in India

CO2: Summarise monetary policy and its instruments.

CO3: Analyse structure function and role of Indian banking system.

CO4: Summarize the nature, instruments and functions of money market in India.

CO5: Analyse capital market and its instruments.

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Mapping of Course Outcomes with Program Specific Outcomes

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Mapping	**PSO1**	**PSO2**	**PSO3**	**PSO4**	**PSO5**
CO1	3	1	2	1	1
CO2	3	1	2	1	1
CO3	2	1	3	1	2
CO4	3	1	2	1	2
CO5	1	1	3	1	2

Syllabus Content

Module I   Financial System   **(20 Hrs)**

Structure of Indian Financial System–Banks and NBFIs including Development Banks (in brief) –Insurance Companies, Pension funds, Mutual Funds, Venture Capital Funds, Angel Investors- Crowd Funding- Special Purpose Vehicle

Module II   Money and Central Banking   (20 Hrs)

Static and Dynamic Functions of money, near money, inside money and outside money – monetary aggregates –M1,M2,M3, M4-High powered money and money multiplier. RBI-functions- Instruments of Monetary policy –Repo and Reverse Repo –Base rate.

Module III Banking   (20 Hrs)

Commercial banking in India –Structure-Functions of commercial banks –Prime Lending Rate, Subprime Lending Rates -conflict between profitability and liquidity, credit creation and credit multiplier – Non-Performing Assets- Payment System in India – RTGS, NEFT, Prepaid Payments instruments- SWIFT- Mobile Banking- Internet Banking.

Module IV Money market   (20 Hrs)

Money Market-Functions-Structure of money market-Call Money Market-CBLO market, Collateral Loan Market-Acceptance Market-Bill or Discount Market- Features of Indian Money Market- DFHI.

Module V   Capital market   (28 Hrs)

Capital Market –Functions –structure and functions of primary market and secondary market – Major Financial Instruments- Equity Shares, Preference Shares, Debentures, Bonds, Guilt edged securities, ADR, GDR- Methods of Public issue-IPO, FPO- Book building –Major investment groups –Retail Investors-Domestic Institutional Investors and Foreign Portfolio Investors-SEBI- Functions- Dematerialisation- Introduction to derivatives- Futures/ Options-Call and Put- Credit Rating

SEMESTER VI

CORE COURSE

EC6B14B18:INTERNATIONAL ECONOMICS

Credits: 4

Total Lecture Hours: 90

Course Outcomes:

CO1: Identify the basic concepts of international economics and terms of trade.

CO2: Describe the various international trade theories.

CO3: Explain the concepts of Balance of Payment and functional knowledge of Balance of Payments situation of India.

CO4: Analyse the various theories of exchange rate determination and forex market participants

CO5: Describe the various international monetary and trade systems and various international agencies working in the field.

Mapping of Course Outcomes with Program Specific Outcomes

Mapping	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	3	1	2	1	2
CO2	3	1	2	1	2
CO3	3	1	2	1	2
CO4	3	1	2	1	3
CO5	3	1	2	1	2

Syllabus content

Module I- Introduction to International Economics   **(10 Hrs)**

Nature and scope of international economics-differences between internal and international trade -Inter industry trade and intra-industry trade -Terms of trade –types, and factors affecting terms of trade – community indifference curve

Module II – Theory of International Trade   (15 Hrs)

Gravity model of International trade- Classical theory -Theory of absolute cost advantage, Theory of Comparative cost advantage, reciprocal demand theorem - offer curves - Opportunity cost theorem, Heckscher - Ohlin theory, Leontief's paradox, Factor price equalization theorem, Gains from Trade, static and dynamic gain from trade

Module III- Balance of Payments   (20 Hrs)

Meaning and structure of balance of payments – equilibrium and disequilibrium - measures to correct disequilibrium- monetary and non-monetary measures- Devaluation, depreciation and Balance of payments- Elasticity approach-Marshall- Learner condition – Jcurve effect

Module IV— Foreign Exchange Market   (25 Hrs)

Functions of foreign exchange markets - Forex Market participants.-Demand and supply of foreign exchange, Determination of equilibrium exchange rates - Factors influencing exchange rates. Theories of exchange rate determination- The Mint Parity Theory, Purchasing Power Parity theory, balance of payment theory. – Fixed and floating exchange Rate, spot and forward rates, Nominal, Real and Effective Exchange rates, hedging, speculation, arbitrage, futures, options and currency swaps. Exchange rate system in India-managed floating – partial and full convertibility on current and capital accounts.

Module V- International Monetary and Trade System   (20 Hrs)

Commercial Policy – free trade and protection – tariffs and quotas and their effects – other non-tariff barriers –Economic Integration-meaning, forms and benefits, European Union- Brexit (all in brief), BRICS – Gold standard – The Bretton Woods System, International Monetary Fund - World Bank. GATT -Uruguay round, WTO- Significance of RTAs

SEMESTER VI

CHOICE BASED CORE COURSE

A) EC6B15aB18: BUSINESS ECONOMICS

Credits: 3

Total Lecture Hours: 72

Course Outcomes:

CO1: Examine the concepts of Business economics.

CO2: Develop a comprehensive understanding about Demand analysis and forecasting

CO3: Examine the concepts of cost, nature of production and its relationship to Business operations (Understand)

CO4: Analyse the pricing and profit decisions and its estimation

CO5: Describe various methods of investment criteria and its importance in business decision making

Mapping of Course Outcomes with Program Specific Outcomes

Mapping	PSO 1	PSO 2	PSO 3	PSO 4	PSO5
CO1	3	3	1	2	2
CO2	3	2	3	1	2
CO3	2	3	2	1	2
CO4	2	3	3	2	2
CO5	2	3	3	1	2

Syllabus content

Module I- Introduction to Business Economics   (10Hrs)

The scope and methods of Business Economics – role in managerial decision making – Relationship with economic theory- Relationship with decision sciences- Relationship with business functions- approaches to managerial decision making theory and firms.

Module II- Demand Analysis and Forecasting   (10Hrs)

Demand – types – determinants of demand – Law of demand – changes in demand – elasticity of demand – income – price – cross (with numerical illustration) – demand estimation- demand forecasting – types – methods of demand forecasting — criteria for a good forecasting method.

Module III- Production and Cost Analysis   (25Hrs)

Production function: Production function with empirical studies – Cobb Douglas production function – Cost concepts and classification – accounting cost and economic cost – actual cost and opportunity cost – explicit cost and implicit or imputed cost – historical cost and replacement cost – short run and long run cost – total cost – average cost – marginal cost – cost estimation – Linear Programming; Transportation problem -The basic profit-maximising model-The agency problem-managerial theory of firm by William J. Baumol.

Module IV- Pricing and Profits   (15 Hrs)

Pricing methods – Types- cost oriented pricing – accounting and economic profit - Marginal cost pricing, Mark up pricing,two part pricing, price discrimination– profit – profit theories – risk bearing theory – market imperfection theory – innovation theory — profit planning – Break- even analysis (with numerical illustration).

Module V-Long Term Investment Decisions   (12 Hrs)

Capital budgeting – methods of investment criteria – payback period method – Average Rate of Return method – Discounted cash flow method – Net Present Value method — Internal Rate of Return method – (with numerical illustration) – cost of capital.

SEMESTER VI

CHOICE BASED CORE COURSE

B) EC6B15bB18: MATHEMATICAL ECONOMICS

Credits: 3

Total Lecture Hours: 72

Course Outcomes

CO1: Explain the basic economic concepts.

CO2: Illustrate the applications of calculus.

CO3: Examine the foundations of major techniques to solve optimization problems in economics.

CO4: Illustrate the economic applications of differentiation, and use it to formulate economic problems

Mapping of Course Outcomes with Program Specific Outcomes

Mapping	PSO 1	PSO 2	PSO 3	PSO 4	PSO5
CO1	3	3	2	1	2
CO2	2	3	3	1	2
CO3	2	3	2	1	2
CO4	2	3	3	2	2
CO5	1	2	3	1	2

Syllabus Contents

Module I- Functions of one real variable   **(25 Hrs)**

Types of functions- constant- polynomial- rational-exponential-logarithmic- Graphs and graphs of functions-Limit and continuity of functions-slope of curvilinear function. The Derivatives—rules of differentiation- higher –order derivatives- implicit differentiation- Economic applications.

Module II- Calculus of multivariable functions   **(25 Hrs)**

Functions of several variable- partial derivatives- rules of partial derivatives-second order partial derivatives. Optimization of multivariate functions- constrained optimization with Lagrange multiplier. Differentials-total and partial differentials-total derivatives-implicit and inverse function rules-Economic applications.

Module III- Integral Calculus   **(22 Hrs)**

The indefinite integral-integration-rule of integration- integration by substitution and by part. The definite integral- properties of definite integrals- area under a curve- area between curves- Economic application- consumer and producer surplus.

SEMESTER VI

CHOICE BASED CORE COURSE

C) **EC6B15cB18 : HISTORY OF ECONOMIC THOUGHT**

Credits: 3

Total Lecture Hours: 72

Course Outcomes

CO1: Examine the origins of key economic concepts and models

CO2: Appraise the chronological development of economic thought and relate the developments in different schools of thought with contemporary issues.

CO3: Compare and contrast different schools of economic thought

CO4: Summarise the economic ideas of Indian economics thinkers.

Mapping of Course Outcomes with Program Specific Outcomes

Mapping	Mapping	PSO 1	PSO 2	PSO 3	PSO 4
CO1	3	3	2	1	2
CO2	2	3	3	1	2
CO3	2	3	2	1	2
CO4	1	2	3	1	2
CO5	2	3	3	2	2

Syllabus Content

Module I- Introduction   **(10 Hrs)**

History of Economic Thought –Reasons for studying Economic Thought- Approach to the History of Economic Thought: Relative and Absolute- Evolution of Methodological Thought-Logical Positivism- Falsification- From Falsificationism to Paradigms- From Research Programmes to Sociological and Rhetorical Approaches- Post Rhetorical Approach (Only an overview is

Required) Economics as a System of Natural Harmony- Naturalism V/S Supernaturalism V/S Utopian Socialism(Overview only).

Module II- Ancient Economic Thought   (10 Hrs)

Ancient Economic Thought: Hebrew Thought (Old Testament - Subsequent Collections of Laws- Greek Economic Thought(General view)-Roman Economic Thought. Precursors of Classical economic Thought: Mercantilism- Economic Ideas of Thomas Mun, Francoise Quesnay (Physiocracy) (Only an Overview is required)

Module III- Classical Economic Thought   (20 Hrs)

Classical Economic Thought: Its Critics and Reformers- Economics of Adam Smith- The Definitional Basis of the Wealth of Nations- The Analysis of Value- Analysis of Income Distribution- Analysis of Capital Accumulation - Economics of Thomas Robert Malthus:-The law of Population- David Ricardo: Method, Policy and Scope- The Ricardian Reformulation of the Theory of Value, Jean- Baptiste Say- Says Law of Market- Says Identity- Dichotomization of the Pricing Process- Says Identity and Quantity Theory of Money- Says Equality- The Revisionism of John Stuart Mill- Reciprocal Demand- Laws of Production and Distribution- Jeremy Bentham and Utilitarianism- Critics and Reformers of Classical School- Works of Sismondi- Friedrich List – An Over View of Utopian Socialist- Karl Marx and Economics of Das Capital.

Module IV- The Marginal Revolution and the Neo-Classical School   (20 Hrs)

The Marginal Revolution: Herman Heinrich, William Stanley Jevons- Carl Menger- Leon Walras- Marshallian Economics- Paretian Welfare Economics- Marginal Productivity Theory- Product exhaustion theorem – Wicksteed- Wicksell, J.B Clarks Marginal Productivity Theory and the Theory of Capital- Economics of Arthur Cecil Pigou- Economics of Welfare- Unemployment - The Pigou Effect-Keynes and Keynes Economics-Overview of Monetarism- New Classical Economics- Supply side economics-New Keynesianism.

Module V-Indian Economic Thought   (12 Hrs)

Economic Ideas Kautilya- Dadabhai Naoroji-Ghandhian Philosophy and Economic Ideas-DR. Gadgil, CN Vakil. P R Brahmananda - K N Raj- P C Mahalanobis- V K R V Rao-Amarthya Sen.

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SEMESTER VI

CORE COURSE - PROJECT

EC6BPRB18- PROJECT

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Credits: 2

Duration: One Semester

Course Outcomes

CO1: Apply the economic concepts in statistical study

CO2: Evaluate the Statistical Data

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Mapping of Course Outcomes with Program Specific Outcomes

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Mapping	PSO 1	PSO 2	PSO 3	PSO 4	PSO5
CO1	3	2	2	2	3
CO2	3	3	3	2	3