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BE BOUNDLESS

BENGALURU CITY UNIVERSITY

CHOICE BASED CREDIT SYSTEM

**(Semester Scheme with Multiple Entry and Exit Options for
Under Graduate Course)**

**Syllabus for Economics (Basic/Hons)
(I & II Semester)**

2021-22 onwards

**PROCEEDINGS OF THE BANGALORE CITY UNIVERSITY BOS (UG)
ECONOMICS MEETING HELD ON 28th SEPTEMBER 2021 AT THE CANARA
BANK SCHOOL OF MANAGEMENT OF CENTRAL COLLEGE CAMPUS, BCU**

Members Present

1. Dr. S.R. Keshava, Chairperson (BOS)
2. Ms. Rukimini T, Member
3. Ms. Jayanthi P. N, Member
4. Ms. Joyce Metinda Member
5. Dr. Sudha. B.V, Member
6. Dr. Revanasiddeshwar M Kuntimath, Member
7. Dr. Shobha V Bhimsen, Member

The BOS Chairperson welcomed the members and emphasized the need of the present meeting

The following resolutions were passed unanimously and agreed upon.

1. The BA/B.Sc. in Economics (Basic/Hons) structure was discussed and unanimously approved as per the NEP 2020
2. The BA/B.Sc. in Economics (Basic/Hons) first two semesters syllabus was discussed and unanimously approved
3. The subsequent semester syllabus would be prepared and finalised subsequently
4. The panel of Examiners for 2021-22 was updated and approved to submit to the Registrar Evaluation

The meeting concluded with vote of thanks

Signature

1. Dr.S.R.Keshava, Chairperson(BOS)
2. Ms..Rukimini T, Member
3. Ms...Jayanthi P. N, Member
4. Ms. Joyce Metinda Member
5. Dr. Sudha. B.V, Member
6. Dr. Revanasiddeshwar M Kuntimath, Member
7. Dr. Shobha V Bhimsen, Member

Dr. S.R. Keshava 28/9/21
Rukimini T 28/9/21
Jayanthi P. N 28/09/21
Joyce Metinda 28/9/21
Dr. Sudha B.V 28/9/21
Dr. Revanasiddeshwar M Kuntimath 28/9/2021
Dr. Shobha V Bhimsen 28/9/2021



First Two Semesters
SYLLABUS
Of
BA/B.Sc. in Economics (Basic/Hons)
(Based on II B of the KSHEC NEP model Structure)

With Effect from Academic Year

2021-22 Onwards

CONTINUOUS INTERNAL EVALUATION AND SEMESTER END EXAMINATION

Total marks for each course shall be based on continuous assessments and term end examinations. As per the decision of the Karnataka State Higher Education Council, it is necessary to have uniform pattern of 30: 70 for CIA and Semester End examinations respectively, among all the Universities, their affiliated and autonomous colleges. The committee deliberated on the same and suggested the following pattern for the CIE Marks.

Sl.No.	Parameters for the Evaluation	Marks
Continuous Internal Evaluation (CIE)		
A	Continuous & Comprehensive Evaluation (CCE)	10 Marks
B	Internal Assessment Tests (IAT)	20 Marks
C		
	Total of CIE (A+B)	40 Marks
D	Semester End Examination (SEE)	60 Marks
	Total of CIE and SEE (A + B + C)	100 Marks

Evaluation process of IA marks is as follows:

- The first component (C1), of assessment is for 20 marks. This shall be based on test, assignment, seminar, case study, field work, project work etc. This assessment and score process should be completed after completing 50% of syllabus of the course/s and within the first half of the semester.
- The second component (C2), of assessment is for 20 marks. This shall be based on test, assignment, seminar, case study, field work, internship / industrial practicum / project work etc. This assessment and score process should be based on completion of the remaining 50 percent of syllabus of the courses of the semester.
- During the 17th – 20th week of the semester, a semester end examination of 3 hours duration shall be conducted by the University for each course. This forms the third and final component of assessment (C3) and the maximum marks for the final component will be 70%.
- In case of a student who has failed to attend the C1 or C2 on a scheduled date, it shall be deemed that the student has dropped the test. However, in case of a student who could not

take the test on scheduled date due to genuine reasons, such a candidate may appeal to the concerned teacher/ Program Coordinator / HOD and suitable decision taken accordingly.

- For assignments, tests, case study analysis etc., of C1 and C2, the students should bring their own answer scripts (of A4 size), graph sheets etc., required for such tests / assignments and these be stamped by the concerned department using their department seal at the time of conducting tests / assignment / work etc.

The outline for continuous assessment activities for Component-I (C1) and Component-II (C2) of a course shall be as under:

Outline for continuous assessment activities for C1 and C2

Activities	C1	C2	Total Marks
Session Test	10 marks	10 marks	20
Seminars etc.	10 marks		10
Case study / Assignment / Field work / Project work/ Academic Economics Quiz/ Review of the Book/ etc		10 marks	10
Total	20 marks	20 marks	40

Suggestive Template for IAT

Internal Assessment Test

BA/B.Sc. and MA/MSc in Economics

Course Code:

Name of the Paper:

Duration: 90 Minutes

Total Marks: 30

SECTION-A

Answer any ten of the following questions. Objective Questions for testing conceptual clarity)

(1 X 10= 10)

SECTION- B

Answer any two of the following questions. (Questions for testing the knowledge of theories and application)

(5X2 = 10)

SECTION- C

Answer any one of the following questions. Questions for testing the critical ability of understanding)

(10 X1=10)

Question Paper Pattern for 60 Marks

Section A (objective type)

Answer any ten of the following out of 13 questions ($1 \times 10 = 10$),

Section B (Questions for testing the knowledge of theories and application)

Answer any six of the following out of 8 questions ($5 \times 6 = 30$)

Part C (Questions for testing the critical ability of understanding)

Answer any two of the following out of 3 questions ($10 \times 2 = 20$)

Structure of BA/B.Sc., BA/B.Sc. Honours

In

Economics

Acronyms Expanded

AECC	Ability Enhancement Compulsory Course
DSCC	Discipline Specific Core Course
SEC/SB/VB	Skill Enhancement Course- Skill Based/Value Based
OEC	Open Elective Course
DSE	Discipline Specific Elective

Proposed Scheme of Teaching and Evaluation for B.A (Basic/Hons) with Economics as Major

E

Semester – II								
Sl No.	Course Code	Title of the Course	Category of Courses	Teaching Hours per Week (L+T+P)	SEE	CIE	Total Marks	Credits
1	Economics-C3	Economic Analysis - II	DSC	3+0+0	60	40	100	3
2	Economics-C4	Karnataka Economy	DSC	3+0+0	60	40	100	3
3	Open Electives-Economics	1. Contemporary Indian Economy 2. Sustainable Development 3. Economics of Business Environment	OEC	3+0+0	60	40	100	3
Sub- Total								09
Exit option with Certificate (48Credits)								

Semester -III								
Sl No.	Course Code	Title of the Course	Category of Courses	Teaching Hours per Week (L+T+P)	SEE	CIE	Total Marks	Credits
1	Economics-C5	Micro Economics	DSC	3+0+0	60	40	100	3
2	Economics-C6	Mathematical Economics	DSC	3+0+0	60	40	100	3
3	Open Electives-Economics	1. Rural Economics 2. Economics of Insurance 3. Economics of Human Development	OEC	3+0+0	60	40	100	3
Sub- Total								09

Semester -IV								
Sl No.	Course Code	Title of the Course	Category of Courses	Teaching Hours per Week (L+T+P)	SEE	CIE	Total Marks	Credits
1	Economics-C7	Macro Economics	DSC	3+0+0	60	40	100	3
2	Economics-C8	Statistics for Economics	DSC	3+0+0	60	40	100	3
3	Open Electives-Economics	1. Karnataka Economy 2. Entrepreneurial Economics 3. Economics and Law	OEC	3+0+0	60	40	100	3
Sub- Total								25

Exit option with Diploma (96 credits)/ Choose one Discipline as Major, the other as Minor

Semester -V								
Sl No .	Course Code	Title of the Course	Category of Courses	Teaching Hours per Week (L+T+P)	SEE	CIE	Total Marks	Credits
1	Economics -C9	Public Economics	DSC	4+0+0	60	40	100	4
2	Economics -C10	Development Economics	DSC	4+0+0	60	40	100	4
3	Economics	1. Agricultural Economics 2. Industrial Economics 3. Financial Economics (choose 1)	DSE	3+0+0	60	40	100	3
4	Economics	Vocational Course – 1 1. Entrepreneurial Economics 2. Digital Economics	DSC	3+0+0	60	40	100	3
Sub- Total								14

Semester -VI								
Sl No.	Course Code	Title of the Course	Category of Courses	Teaching Hours per week (L+T+P)	SEE	CIE	Total Marks	Credits
1	Economics- C11	International Economics	DSC	4+0+0	60	40	100	4
2	Economics- C12	Indian Public Finance	DSC	4+0+0	60	40	100	4
3	Economics	1. Labour Economics 2. Economics of Non-Farm Sector 3. Tertiary Economics (Choose 1)	DSE	3+0+0	60	40	100	3
4	Economics	Vocational Course – 2 1. Micro Entrepreneurs Development 2. Project Planning & Management (Choose 1)	DSC	3+0+0	60	40	100	3
Sub- Total								14

Exit option with Bachelor of Arts, B.A/ Bachelor of Science, B.Sc. Basic Degree (136 credits}

Semester -VII								
Sl No.	Course Code	Title of the Course	Category of Courses	Teaching Hours per week (L+T+P)	SEE	CIE	Total Marks	Credits
1	Economics-C13	Advanced Microeconomics	DSC	4+0+0	60	40	100	4
2	Economics-C14	Financial Economics	DSC	4+0+0	60	40	100	4
3	Economics C15	Econometrics	DSC	3+0+0	60	40	100	3
4	Economics	1. Population Studies 2. Urban Economics 3. Economics of Infrastructure (Choose 1)	DSE	3+0+0	60	40	100	3
5	Economics	1. Economics of Governance 2. Gender Economics 3. Economics of Health & Education (Choose 1)	DSE	3+0+0	60	40	100	3
6	B.A 7. 6	Research Methodology for Economics	DSC	2+1+0				3
Sub- Total								20

Semester - VIII								
Sl No.	Course Code	Title of the Course	Category of Courses	Teaching Hours per week (L+T+P)	SEE	CIE	Total Marks	Credits
1	Economics-C16	Economics and Data Analytics	DSC	4+0+0	60	40	100	4
2	Economics-C17	Behavioural Economics	DSC	4+0+0	60	40	100	4
3	Economics C18	Environmental Economics	DSC	3+0+0	60	40	100	3
4	Economics	1. Institutional Economics 2. International Finance 3. Co-operative Economics	DSE	3+0+0	60	40	100	3
5	B.A 8.5	Research Project	-					6
Sub- Total								20

Award of Bachelor of Arts Honours, B.A. (Hons.)/ Bachelor of Science Honours, B.Sc. (Hons) Degree in Economics (176 credits)

Program Structure

Proposed Scheme of Teaching and Evaluation for B. Sc. with Economics as Core Subject

Discipline Core: Economics

Total Credits:

Semester -I

Sl No	Course Code	Title of the Course	Category of Courses	Teaching Hours /Week (L+T+P)	SEE	CIE	Total Marks	Credits
1								
2								
3	Economics-C1	Microeconomics	DSC	3+0+0	60	40	100	3
4	Economics-C2	Mathematics for economics	DSC	3+0+0	60	40	100	3
5								
6								
7	O E 1	1. Economics of Business Environment 2. Development Studies 3. Managerial Economics	OEC	3+0+0	60	40	100	3
8								
Sub- Total								9

Semester -II

Sl No	Course Code	Title of the Course	Category of Courses	Teaching Hours /Week (L+T+P)	SEE	CIE	Total Marks	Credits
1								
2								
3	Economics-C3	Macroeconomics	DSC	3+0+0	60	40	100	3
4	Economics-C4	Statistics for Economics	DSC	3+0+0	60	40	100	3
5								
6								
7	O E 2	1. Kautilya's Arthshastra 2. Indian Economy Prior to Economic Reforms 3. Sustainable Development	OEC	3+0+0	60	40	100	3
8								
9								
<i>Sub- Total</i>								9

Exit option with Certificate (48 credit)

Semester -III								
Sl No.	Course Code	Title of the Course	Category of Courses	Teaching Hours /Week (L+T+P)	SEE	CIE	Total Marks	Credits
1								
2								
3	Economics-C5	Factor pricing and Welfare Economics	DSC	3+0+0	60	40	100	3
4	Economics-C6	Basic Econometrics	DSC	3+0+0	60	40	100	3
5								
6								
7	O E 3	4. Contemporary Indian Economy 5. Rural Economics 6. Economics of Insurance 7. Economics of Human Development	OEC	3+0+0	60	40	100	3
8								
Sub- Total								9

Semester -IV								
Sl No	Course Code	Title of the Course	Category of Courses	Teaching Hours /Week (L+T+P)	SEE	CIE	Total Marks	Credits
1								
2								
3	Economics-C7	Monetary Economics	DSC	3+0+0	60	40	100	3
4	Economics-C8	Time series Econometrics	DSC	3+0+0	60	40	100	3
5								
6								
7	OE 4	4. Karnataka Economy 5. Entrepreneurial Economics 6. Economics and Law	OEC	3+0+0	60	40	100	3
8								
9								
Sub- Total								9

Exit option with Diploma (96 credits)/ Choose any one Discipline as Major, the other as the Minor

Semester -V								
Sl No	Course Code	Title of the Course	Category of Courses	Teaching Hours /Week (L+T+P)	SEE	CIE	Total Marks	Credits
1	Economics-C9	Public economics	DSC	4+0+0	60	40	100	4
2	Economics-C10	International economics	DSC	4+0+0	60	40	100	4
3	Economics DSE-1 (Choose-1)	1. Environmental Economics 2. Economics of Information 3. Operations Research in Economics	DSE	3+0+0	60	40	100	3
4	Economics DSC-1 (Choose-1)	Vocational Course – 1 1. Entrepreneurial Economics 2. Digital economics	DSC	3+0+0	60	40	100	3
5								
6								
Sub- Total								14

Semester -VI								
Sl No	Course Code	Title of the Course	Category of Courses	Teaching Hours /Week (L+T+P)	SEE	CIE	Total Marks	Credits
1	Economics-C11	Economics of Growth & Development	DSC	4+0+0	60	40	100	4
2	Economics-C12	Indian Economy	DSC	4+0+0	60	40	100	4
3	Economics DSE-2 (Choose-1)	1. Experimental economics 2. Game theory 3. Economics of Artificial Intelligence	DSE	3+0+0	60	40	100	3
4	Economics DSC-2 (Choose-1)	Vocational Course – 2 1. Micro Entrepreneur Development 2. Project Planning & Management	DSC	3+0+0	60	40	100	3
5								
6								
Sub- Total								14

Exit option with Bachelor of Science, B.Sc. Basic Degree (136 credits}

Semester -VII

<i>Sl No</i>	Course Code	Title of the Course	Category of Courses	Teaching Hours /Week (L+T+P)	SEE	CIE	Total Marks	Credits
<i>1</i>	Economics-C13	Advanced Micro economics	DSC	4+0+0	60	40	100	4
<i>2</i>	Economics-C14	Financial Economics	DSC	4+0+0	60	40	100	4
<i>3</i>	Economics C15	Computer application in economics	DSC	3+0+0	60	40	100	3
<i>4</i>	Economics DSE-3 (Choose-1)	1. Agricultural Economics 2. Health Economics 3. Monetary Economics	DSE	3+0+0	60	40	100	3
<i>5</i>	Economics DSE-4 (Choose-1)	4. Economics of Climate Change 5. Financial Econometrics	DSE	3+0+0	60	40	100	3
<i>6</i>	Economics DSC-3	Research Methodology	DSC	2+1+0				3
<i>Sub- Total</i>								20

Semester -VIII

Sl No	Course Code	Title of the Course	Category of Courses	Teaching Hours /Week (L+T+P)	SEE	CIE	Total Marks	Credits
1	Economics-C16	Advanced Macroeconomics	DSC	4+0+0	60	40	100	4
2	Economics-C17	Economic and Business Analytics	DSC	4+0+0	60	40	100	4
3	Economics C18	Programming with R for Economists	DSC	3+0+0	60	40	100	3
4	Economics DSE-5 (Choose-1)	1. Industrial Economics 2. Economics of Education 3. Economics of Artificial Intelligence and Machine learning	DSE	3+0+0	60	40	100	3
5	Economics DSC-4	Research Project	-					6
Sub- Total								20
Grand Total (I to VIII) (Only Economics)								104

Exit option with Bachelor of Science, B.Sc. Basic (Hons) Degree (176 credits}

SYLLABUS FOR FIRST TWO SEMESTERS OF BA
ECONOMICS
AND
BA ECONOMICS HONORS
In
ECONOMICS

BA (Hons) Economics

Semester 1

DSC 1.1.: Economic Analysis -I (3 credits)

Course Outcomes:

By the end of the course the student will be able to:

1. Identify the facets of an economic problem.
2. Learn basic economic concepts and terms.
3. Explain the operation of a market system;
4. Analyse the production and cost relationships of a business firm;
5. Evaluate the pricing decisions under different market structures; and
6. Use basic cost-benefit calculations as a means of decision making (i.e., thinking like an economist)

Content of Economic Analysis- 1	42 Hrs
Unit – 1 Basic Concepts in Economics	14
Chapter No. 1 Nature and Scope of Economics • Meaning of Economics • Nature of Economics • Scope of Economics • Methods of Economics • Why Study Economics?	5
Chapter No. 2 Thinking Like an Economist • Thinking Like an Economist • The Economist as Scientist • The Economist as Policy Adviser • Economic Policy	4
Chapter No. 3 Economic System • Types of Economic Activities • Organisation of Economic Activities • Circular Flow of Economic Activities • Evolution of the Present Economic Systems	5
Practicum: 1. Group Discussions on Choice Problem 2. Assignment on Types of Economic Systems	
Unit – 2 Demand, Supply and Markets	14
Chapter No. 4. Firms and Household • Meaning of Firms and Household • Relationship Between Firms and Household • Input Markets • Output Markets	4
Chapter No. 5. Demand and Supply • Individual Demand • Market Demand • Demand Determinants • Supply and its Determinants • Market Equilibrium	5
Chapter No. 6. Elasticity and its Measurement	5

• Types of Elasticity of Demand • Price, Income and Cross Elasticities • Measurement of Elasticity of Demand • Determinants of Elasticity of Demand Practicum: 1. Estimation of demand and supply elasticities 2. solving an equilibrium problem	
Unit – 3 Cost and Market Structures	14
Chapter No. 7 Production and Costs • Production Function • Total Production Cost • Marginal Production Cost • Average Production Cost • Revenue Functions Chapter No. 8. Accounting and Economic Costs • Cost in the Short run • Fixed Costs and Variable Costs • Marginal Costs • Long run AC and MC • TR, MR, AR Chapter No. 9. Market Structures • Markets • Perfect and Imperfect Competition • Features of Perfect Competition • Monopoly, Oligopoly and Monopolistic Competition • Pricing Strategies Practicum: 1. Calculation of various costs and comparing them with production concepts; a mini-project can be taken up wherever possible 2. Studying the real-life pricing mechanism through a project/ case studies References (indicative) 1. Cohen, A.J. (2020). <i>Macroeconomics for Life: Smart Choices for All? + MyLab Economics with Pearson eText</i> (updated 2nd ed.). Toronto, ON: Pearson Canada Inc. Type: Textbook: ISBN: 9780136716532 2. Cohen, A.J. (2015). <i>Microeconomics for Life: Smart Choices for You + MyLab Economics with Pearson eText</i> (2nd ed.). Toronto, ON: Pearson Canada Inc. Type: Textbook: ISBN: 9780133899368 3. Case Karl E. and Fair Ray C. Principles of Economics, Pearson Education Asia, 2014. 4. Mankiw N. Gregory. Principles of Economics, Thomson, 2013. 5. Stiglitz J.E. and Walsh C.E. Principles of Economics, W.W. Norton & Co, New York, 2011.	4 5 5

Semester I

Course Title: DSC 1.2: Contemporary Indian Economy	
Total Contact Hours: 42	Course Credits: 3
Formative Assessment Marks: 40	Duration of ESA/Exam: 3 Hrs
Model Syllabus Authors:	Summative Assessment Marks: 60

Course Pre-requisite(s):

Course Outcomes (COs):

At the end of the course the student should be able to:

- Understand the current problems of Indian Economy
- Identify the factors contributing to the recent growth of the Indian economy
- Evaluate impact of LPG policies on economic growth in India
- Analyze the sector specific policies adopted for achieving the aspirational goals
- Review various economic policies adopted

Content of Course 1	42 Hrs
Unit – 1 LPG POLICIES, ECONOMIC REFORMS AND AGRICULTURE	14
Chapter No. 1 Recent Issues - Genesis and Impact of LPG - India's population policy - Demographic Dividend - India's human development in global perspective	4
Chapter No. 2 Urbanization and governance - Urbanization and Smart City Mission - Informal sector - Impact of COVID-19 Pandemic - Atma Nirbhara Bharat Abhiyan	4
Chapter No. 3 Economic Reforms and Agriculture - Agriculture and WTO - Price policy and Subsidies - Commercialisation and Diversification - Public Distribution System - Impact of public expenditure on agricultural growth - Agrarian Crisis, Doubling Farm Incomes, MGNREGS	6
Practicum - Mini-project to ascertain the impact of pandemic on lives of different sections of population - Field visits to understand the agrarian situation	
Unit – 2 INDUSTRY, BUSINESS, FISCAL POLICY	14
Chapter No. 4. Industrial Policy - New Industrial Policy and changes - Public sector reform - Privatisation and Disinvestment - Competition Policy	4

Chapter No. 5. Business • Ease of Doing Business • Performance of MSMEs • Role of MNC's in Industrial Development • Make in India, development of economic and social infrastructure • National Monetization Pipeline (The teacher should include the latest policy of the government) Chapter No. 6. Fiscal Policy • Tax, Expenditure, Budgetary deficits • Pension and Fiscal Reforms • Public debt management and reforms • Fiscal Responsibility and Budget Management (FRBM) Act • GST, Fiscal Federalism and Fiscal Consolidation • Recommendations of the Current Finance Commission Practicum: Mini-projects to assess the business climate	5 5
Unit – 3 MONETARY POLICY, FOREIGN TRADE AND INVESTMENT	14
Chapter No. 7 Monetary Policy • Organisation of India's money market • Financial sector reforms • Interest rate policy • Review of monetary policy of RBI Chapter No. 8. Money and Capital Markets • Working of SEBI in India • Changing roles of the Reserve Bank of India • Commercial banks, • Development Finance Institutions • Foreign banks and Non-banking financial institutions • Analysis of price behaviour in India, Anti-inflationary measures • Demonetization and its impact Chapter No. 9. Foreign Trade and Investment • India's foreign trade • India Balance of payment since 1991 • New Exchange Rate Regime: Partial and full convertibility • Capital account convertibility • FDI – Trends and Patterns • New EXIM policy, WTO and India • Bilateral and Multilateral Trade Agreements and Associations Practicum: 1. Computation and analysis of Wholesale Price Index, Consumer Price Index: components and trends. 2. Group Discussions on India's trade policies and trade agreements References • Bardhan, P.K. (9th Edition) (1999), The Political Economy of Development in India, Oxford University Press, New Delhi. • Bhaduri Amit, (2015), A Model of Development By Dispossession, Fourth Foundation • Byres Terence J. (ed.), (1998), The State, Development Planning and Liberalisation 'in India, Delhi, OUP • Dutt Ruddar and K.P.M Sundaram (2001): Indian Economy, S Chand & Co. Ltd. New Delhi.	3 5 6

• Frankel Francine R., (2004), India's Political Economy, Delhi. OUP Jenkins Rob, 2000, Economic Reform in India, Cambridge, CUP • Jalan, B. (1996), India's Economic Policy- Preparing for the Twenty First Century, Viking, New Delhi. • Joshi Vijaya and L.M.D. Little, (1998), India's Economic Reform 1991-2001, Delhi, OUP. • Kapila Uma: Indian Economy: Policies and Performances, Academic Foundation • Mishra S.K & V.K Puri (2001) "Indian Economy and –Its development experience", Himalaya Publishing House. • Mukharji Rahul (ed.) (2007), India's Economic Transition: The Politics of Reforms, edited by Rahul Mukherji, Oxford University Press , New Delhi. • Stuart and John Harris, (2000), Reinventing India, Cambridge Polity	
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Semester I

Course Title: OEC 1.3.1: Kautilya's Arthashastra (OEC)	
Total Contact Hours: 42	Course Credits: 3
Formative Assessment Marks: 40	Duration of ESA/Exam: 3 Hrs
Model Syllabus Authors:	Summative Assessment Marks: 60

Course Pre-requisite(s): 12th Standard Pass

Course Outcomes (COs):

At the end of the course the student should be able to:

1. This course will enlighten the students about the ancient fundamentals about political and economic constituents, which will frame out a basic land of understanding the modern trends. This will help them to understand the upcoming needs in the area of policy making for states at national and international level.
2. This treatise deals with the science of Governance, so it projects out all the dimensions needed to be understood by students about the present socio-economic and political rules and regulations of the state.

Unit	Description	Hours
I	Chapter 1: Introduction to the Arthashastra,	2
	Chapter 2: Various disciplines of Indian Education System,	2
	Chapter 3: Place of Kautilya Arthashastra among them,	2
II	Chapter 4: Importance of science dealing with governance - Introduction to Tantrayuktis – The methods of preparing a compendium, tools and techniques of writing a compendium.	5
	Chapter 5: Governance Procedure- Appointment of the ministers, duties of Government superintendents, treasury, spies, royal writ, punishment- Vakparushya and Dandaparushya;	5
	Chapter 6: Laws of Inheritance – Determination of forms of Agreements, determination of legal disputes, Division of inheritance, Special shares in inheritance, Distinction between sons	5
III	Chapter 7: Economic Dimension- Body of income of the state, collection of revenue, duties of a Chamberlin (koshadhyksha), forty ways of embezzlement of the revenue, punishment for the embezzlement of revenue, expenditure, Loss and Profit, Keeping up the Accounts, Recovery of Debts, Deposits of the state, Resumption of the gifts, Remission of Taxes	9
	Chapter 8: Political Dimension- Six-fold Policy- War, Combination of Powers, Agreement of Peace with or without definite terms, Double Policy, Circle of States, Conduct of Corporations, Secret means, Plan of treatise,	9
	Chapter 9: Defence and Warfare: Planning of different Vyuhas in War	3
Suggested readings: 1. Arthashastra of Kautilya by T. Ganapati Shastri, Chaukhambha Surbharti Prakashana, Varanasi, India, 2005.		

2. Arthashastra of Kautilya by Sri. Vacaspati Gairola, Chaukhambha Vidyabahavan, Varanasi, India, 2013.
3. Kautilya, The Arthashastra by L.N. Rangarajan, Penguin Books Ltd, London.
4. Kautilya's Arthashastra: The Way of Financial Management and Economic Governance, Jaico Publishing House, Mumbai, India.

Semester 1

Course Title: OEC 1.3.2: Indian Economy Prior to Economic Reforms (OEC)	
Total Contact Hours: 42	Course Credits: 3
Formative Assessment Marks: 40	Duration of ESA/Exam: 3 Hrs
Model Syllabus Authors:	Summative Assessment Marks: 60

Course Pre-requisite(s): 12th Standard Pass

Course Outcomes (COs):

At the end of the course the student should be able to:

- i. Trace the evolution of Indian Economy
- ii. Identify the structural features and constraints of the Indian economy
- iii. Evaluate planning models and strategy adopted in India
- iv. Analyze the sector specific problems and contributions towards overall economic growth
- v. Review various economic policies adopted

Unit	Description	Hours
I	Features and problems of Indian Economy	15
	Chapter 1: Features of Indian Economy - India as a developing economy, - Demographic features - Human Development (HDI), - Problems of Poverty, Unemployment, Inflation, income inequality	4
	Chapter 2: Issues in Agriculture sector in India - Land reforms - Green Revolution - Agriculture marketing in India - Agricultural price policy	6
	Chapter 3: Industrial and Service Sector - Industrial development; - Micro, Small and Medium Enterprises, - Industrial Policy - Performance of public sector in India, - Service sector in India.	5
	Practicum: 1. Identifying economic problems and their causes; 2. Mini-project on any aspect of Indian agriculture, industry, service and public sectors	
II	Economic Policies	13
	Chapter 4: Planning Mixed Economy	5

	• Bombay Plan • Gandhian Model • Nehru Mahalanobis Model • Objectives and achievements of economic planning in India Chapter 5: Monetary policy in India • Instruments of Monetary Policy • Black money in India – Magnitude and Impact Chapter 6: Fiscal Policy in India • Tax Revenue • Public expenditure • Budgetary deficits • Fiscal reforms • Public debt management and reforms • Centre state Finance Relations and Finance commissions in India. Practicum: Assignment on successes and failures of India's planning; Monetary and Fiscal Policy instruments	2 6
III	External sector and Nature of Reforms in India	14
	Chapter 7: India's foreign trade • Salient features • Value, composition and direction of trade • Balance of payments • Goal of self-reliance based on import substitution and protection • Tariff policy • Exchange rate Chapter 8: Post-1991 strategies • Stabilisation and structural adjustment packages • Liberalisation Privatisation Globalisation (LPG) Model • Impact of LPG Policies on Indian Economy Chapter 9: NITI Ayog • Organization • Functions Practicum: Calculation of BoP and evaluating trade policies; Assignment and group discussion on the impact of LPG Policies	6 6 2
Suggested Readings: 1. Dutt Ruddar and K.P.M Sundaram (2001): Indian Economy, S Chand & Co. Ltd. New Delhi. 2. Mishra S.K & V.K Puri (2001) "Indian Economy and –Its development experience", Himalaya Publishing House. 3. Kapila Uma: Indian Economy: Policies and Performances, Academic Foundation 4. Bardhan, P.K. (9th Edition) (1999), The Political Economy of Development in India, Oxford University Press, New Delhi. 5. Jalan, B. (1996), India's Economic Policy- Preparing for the Twenty First Century, Viking, New Delhi.		

Semester 1

Course Title: OEC 1.3.3: Development Studies (OEC)	
Total Contact Hours: 42	Course Credits: 3
Formative Assessment Marks: 40	Duration of ESA/Exam: 3 Hrs
Model Syllabus Authors:	Summative Assessment Marks: 60

Course Pre-requisite(s): 12th Standard Pass

Course Outcomes (COs):

At the end of the course the student should be able to:

- i. Graduates will be able to excel in higher studies and/or to succeed in profession.
- ii. Graduates will get a solid foundation of fundamentals required to solve socioeconomic problems and also to pursue higher studies.
- iii. Graduates will demonstrate knowledge to appreciate of the dimensions of contemporary development issues, to generate sensitivity to problems concerning ethics and human values to develop orientation towards effective communication and critical analysis, and to appreciate the interrelationships among disciplines as they relate to everyday realities.
- iv. Graduates will cultivate professional and ethical attitude, effective Communication skills, teamwork skills, multidisciplinary approach, and to facilitate an advanced understanding and appreciation of the principles, methodologies, value systems, and thought processes employed in human inquiries.

Unit	Description	Hrs
I	Development: Meaning and Current Challenges	9
	Chapter 1: Meaning of Development	3
	- The concept of development, - Growth and Development - Transition from quantitative to qualitative indices	3
	Chapter 2: Modern economic growth	3
	- Characteristics of modern economic growth - Regional and global disparities - Common characteristics and dissimilarities among developing countries.	3
	Chapter 3: Current Development Challenges	
	- Inequality - Migration - Conflicts	
	Practicum:	
II	Approaches to Development	12
	Chapter 4: Development Ethics	2
	- Concept and meaning - Principles and importance of Development Ethics	
	Chapter 5: Assessing Development	4
	- Per capita income - PQLI - Choice and Capabilities - HDI	
	Chapter 6: Approaches of Development	6
	- Adam Smith - Marx	

	- Schumpeter - Structuralist approach - Neo-liberalism, IMF and structural adjustment - Capabilities Approach Practicum:	
III	Theories and Current Issues in Development	21
	Chapter 7: Theories of Development - Theorizing Development - Modernization Theory, Dependency Theory - Capitalist World System - The evolution of thought on poverty reduction - Colonial Regimes and Their Legacies Chapter 8: The Industrial Revolution - Genesis and Spread - International specialization of Labour/Industry - Industrial Labour - ILO and its activities to promote labour standards Chapter 9: Environment and development - Increasing degradation of natural environment – water and air pollution and deforestation - Depletion of global commons - Sustainable development - concept and measures - SDGs - Climate Change – Causes, Impact, Measures of Mitigation and Adaptations Practicum:	6 5 10
Suggested Readings: - Crocker, D. (2008). Ethics and development theory-practice, Ethics of Global Development Agency, Capability, and Deliberative Democracy, 67-106 - Des Gasper (2008), ‘Denis Goulet and the Project of Development Ethics: Development, 8, 99. 481-9, Elsevier Science, 1, pp.10-26. - Drèze, Jean and Amartya Sen(2002), India: Development and Participation, second edition. Oxford: Oxford University Press. - Gasper, D. (2004). The ethics of development: From Economism to human development. Edinburgh: Edinburgh University Press - Huntington, Samuel (1971), The change to change: Modernization, development and politics. Comparative Politics, 3. - Myrdal, Gunnar. (1974), “What is Development?” Journal of Economic Issues 8(4):729-736. - Peet, Richard with Elaine Hartwick (2009), Theories of Development: Contentions, Arguments, Alternatives (2nd edition). New York: Guilford. - Sen, Amartya (1999) Development as Freedom. New York: Anchor Books.		

Semester II

Course Title: DSC 2.1: Economic Analysis - II	
Total Contact Hours: 42	Course Credits: 3
Formative Assessment Marks: 40	Duration of ESA/Exam: 3 Hrs
Model Syllabus Authors:	Summative Assessment Marks: 60

Course Pre-requisite(s): *Basic Economics I*

Course Outcomes (COs):

At the end of the course the student should be able to:

1. Understand the operation of the overall economic system;
2. Calculate national income and related aggregates
3. Explain the relationship between macroeconomic aggregates;
4. Analyse the nature of business cycles and policies towards controlling them;
5. Evaluate the macroeconomic policies for solving major problems like poverty and unemployment

Unit	Description	Hrs
I	Macroeconomic Concepts and Relationships	12
	Chapter 1: Macroeconomy • Introduction to National Income Accounting • Concepts of GDP, GNP and national income • Approaches to calculating GDP, personal income, Nominal and real GDP • Limitations of the GDP concept	5
	Chapter 2: Monetary economy • Characteristics • The demand for money • The supply of money and overall liquidity position • credit creation	4
	Chapter 3: Inflation • Meaning and causes of inflation • Calculating inflation rate • Impact of inflation	3
	Practicum: 1. Understanding the relationships between various NI concepts used in India's NI accounting; 2. Estimating the components of money supply and interpreting the various price indices	
II	Macroeconomic Challenges and Policies	12
	Chapter 4: Macroeconomic challenges • Unemployment • Economic Growth • Business Cycles	3
	Chapter 5: Monetary Policy • Objectives • Instruments	3
	Chapter 6: Fiscal Policy • Public finance vs. Private finance • Fiscal functions and role of government: allocation, distribution and stabilisation • Characteristics of public goods, • Rationale of public provision of public goods	6

	Practicum: 1. Reviewing the monetary policy of RBI; 2. A project to identify the nature and causes of poverty and the latest central budget	
III	Public Policy and Globalization	18
	Chapter 7: Poverty and public policy • Meaning, measurement and types of poverty • Poverty alleviation strategies in India Chapter 8: International Trade • The economic basis for trade—absolute advantage and comparative advantage, • terms of trade • exchange rates • Trade Barriers-tariffs, subsidies and quotas Balance of Payments-The current and capital account	6 9
	Chapter 9: Globalization • Meaning • Importance • Pros and cons of Globalization Practicum: Survey on identification of poor; Calculating the components of BoP of India	3
References (indicative) 1. Cohen, A.J. (2020). <i>Macroeconomics for Life: Smart Choices for All? + MyLab Economics with Pearson eText</i> (updated 2nd ed.). Toronto, ON: Pearson Canada Inc. Type: Textbook: ISBN: 9780136716532 2. Cohen, A.J. (2015). <i>Microeconomics for Life: Smart Choices for You + MyLab Economics with Pearson eText</i> (2nd ed.). Toronto, ON: Pearson Canada Inc. Type: Textbook: ISBN: 9780133899368 3. Case Karl E. and Fair Ray C. Principles of Economics, Pearson Education Asia, 2014. 4. Mankiw N. Gregory. Principles of Economics, Thomson, 2013. 5. Stiglitz J.E. and Walsh C.E. Principles of Economics, W.W. Norton & Co, New York, 2011.		

Semester II

Course Title: DSC 2.2: Karnataka Economy	
Total Contact Hours: 42	Course Credits: 3
Formative Assessment Marks: 40	Duration of ESA/Exam: 3 Hrs
Model Syllabus Authors:	Summative Assessment Marks: 60

Course Pre-requisite(s):

Course Outcomes (COs):

At the end of the course the student should be able to:

1. Understand the nature of economic growth and problems of Karnataka state.
2. Explain the process of structural growth in Karnataka economy;
3. Evaluate the policies and programmes undertaken by the Govt. of Karnataka for bringing about socio-economic development

Unit	Description	Hours
I	Characteristics of Karnataka Economy	12
	Chapter 1: State Income • State Domestic Product and PCI • Measures to redress regional imbalances	2
	Chapter 2: Human and Natural Resources • Population • Human Development Index • Poverty and Unemployment– Anti-Poverty and Employment generation Programmes • Functioning of Panchayat Raj Institutions	6
	Chapter 3: Natural Resources in Karnataka • Land, Water, Forest and mineral resources in Karnataka • Sustainable Development Goals • Karnataka environmental Policy Practicum:	4
II	Agriculture and Industries in Karnataka	18
	Chapter 4: Agriculture in Karnataka • Importance of Agriculture • Problems in Agriculture • Land Reforms • Cropping Pattern • Irrigation • Watershed Development • Dry Land Farming • Farmers Suicide – causes and solutions	9
	Chapter 5: Rural Development • Public Distribution System • Rural Development Programmes.	3
	Chapter 6: Industries in Karnataka • Major Industries in Karnataka - Problems and Prospects	6

	• MSMEs - Problems and Measures • IT Industries in Karnataka • Industrial Finance in Karnataka • Industrial Policy of Karnataka Practicum:	
III	Infrastructure and Finances	12
	Chapter 7: Infrastructure in Karnataka • Transportation: Road, Rail, Water and Air Transport • Information and Communication Technology facilities; Chapter 8: Social Infrastructure • Drinking Water, Sanitation • Housing • Health and Education • Social Security in Karnataka Chapter 9: State Finance • Sources of Revenue: Direct and Indirect Taxes • GST – Impact and Collections • Sharing of Central Taxes and Grand-in-Aid • Expenditure Sources • States Indebtedness • State Finance Commission • State Budget Practicum:	3 4 5
References (indicative) 1. Government of Karnataka, Economic Survey [Various Issues] 2. Planning Department, Annual Publication, Government of Karnataka. 3. Karnataka at Glance, Annual Publication Government of Karnataka. 4. Madaiah M & Ramapriya. Karnataka Economy Growth: Issues and Development, Himalaya Pub., House, New Delhi. 5. Adul Aziz and K.G. Vasanti. (Eds) Karnataka Economy. 6. Government District Development Reports 7. Hanumantha Rao. Regional Disparities and Development in Karnataka. 8. Krishnaiah Gowda H.R. Karnataka Economy, Spandana Publications, Bangalore 9. Nanjundappa D.M. Some Aspects of Karnataka Economy. 10. Puttaswamiah K. Karnataka Economy, Two Volumes		

Semester II

Course Title: OEC 2.3.1: Contemporary Indian Economy	
Total Contact Hours: 42	Course Credits: 3
Formative Assessment Marks: 40	Duration of ESA/Exam: 3 Hrs
Model Syllabus Authors:	Summative Assessment Marks: 60

Course Pre-requisite(s):

Course Outcomes (COs):

At the end of the course the student should be able to:

- vi. Understand the current problems of Indian Economy
- vii. Identify the factors contributing to the recent growth of the Indian economy
- viii. Evaluate impact of LPG policies on economic growth in India
- ix. Analyze the sector specific policies adopted for achieving the aspirational goals
- x. Review various economic policies adopted

Content of Course	42 Hrs
Unit – 1 LPG POLICIES, ECONOMIC REFORMS AND AGRICULTURE	14
Chapter No. 1 Recent Issues • Genesis and Impact of LPG • India's population policy • Demographic Dividend • India's human development in global perspective	4
Chapter No. 2 Urbanization and governance • Urbanization and Smart City Mission • Informal sector • Impact of COVID-19 Pandemic • Atma Nirbhara Bharat Abhiyan	4
Chapter No. 3 Economic Reforms and Agriculture • Agriculture and WTO • Price policy and Subsidies • Commercialisation and Diversification • Public Distribution System • Impact of public expenditure on agricultural growth • Agrarian Crisis, Doubling Farm Incomes, MGNREGS	6
Practicum 3. Mini-project to ascertain the impact of pandemic on lives of different sections of population 4. Field visits to understand the agrarian situation	
Unit – 2 INDUSTRY, BUSINESS, FISCAL POLICY	14
Chapter No. 4. Industrial Policy • New Industrial Policy and changes • Public sector reform • Privatisation and Disinvestment • Competition Policy	4

Chapter No. 5. Business • Ease of Doing Business • Performance of MSMEs • Role of MNC's in Industrial Development • Make in India, development of economic and social infrastructure • National Monetization Pipeline (The teacher should include the latest policy of the government)	5
Chapter No. 6. Fiscal Policy • Tax, Expenditure, Budgetary deficits • Pension and Fiscal Reforms • Public debt management and reforms • Fiscal Responsibility and Budget Management (FRBM) Act • GST, Fiscal Federalism and Fiscal Consolidation • Recommendations of the Current Finance Commission Practicum: Mini-projects to assess the business climate	5
Unit – 3 MONETARY POLICY, FOREIGN TRADE AND INVESTMENT	14
Chapter No. 7 Monetary Policy • Organisation of India's money market • Financial sector reforms • Interest rate policy • Review of monetary policy of RBI	3
Chapter No. 8. Money and Capital Markets • Working of SEBI in India • Changing roles of the Reserve Bank of India • Commercial banks, • Development Finance Institutions • Foreign banks and Non-banking financial institutions • Analysis of price behaviour in India, Anti-inflationary measures • Demonetization and its impact	5
Chapter No. 9. Foreign Trade and Investment • India's foreign trade • India Balance of payment since 1991 • New Exchange Rate Regime: Partial and full convertibility • Capital account convertibility • FDI – Trends and Patterns • New EXIM policy, WTO and India • Bilateral and Multilateral Trade Agreements and Associations Practicum: 3. Computation and analysis of Wholesale Price Index, Consumer Price Index: components and trends. 4. Group Discussions on India's trade policies and trade agreements References • Bardhan, P.K. (9th Edition) (1999), The Political Economy of Development in India, Oxford University Press, New Delhi. • Bhaduri Amit, (2015), A Model of Development By Dispossession, Fourth Foundation • Byres Terence J. (ed.), (1998), The State, Development Planning and Liberalisation 'in India, Delhi, OUP • Dutt Ruddar and K.P.M Sundaram (2001): Indian Economy, S Chand & Co. Ltd. New Delhi.	6

• Frankel Francine R., (2004), India's Political Economy, Delhi. OUP Jenkins Rob, 2000, Economic Reform in India, Cambridge, CUP • Jalan, B. (1996), India's Economic Policy- Preparing for the Twenty First Century, Viking, New Delhi. • Joshi Vijaya and L.M.D. Little, (1998), India's Economic Reform 1991-2001, Delhi, OUP. • Kapila Uma: Indian Economy: Policies and Performances, Academic Foundation • Mishra S.K & V.K Puri (2001) "Indian Economy and –Its development experience", Himalaya Publishing House. • Mukharji Rahul (ed.) (2007), India's Economic Transition: The Politics of Reforms, edited by Rahul Mukherji, Oxford University Press , New Delhi. • Stuart and John Harris, (2000), Reinventing India, Cambridge Polity	
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Semester II

Course Title: OEC 2.3.2: Sustainable Development	
Total Contact Hours: 42	Course Credits: 3
Formative Assessment Marks: 40	Duration of ESA/Exam: 3 Hrs
Model Syllabus Authors:	Summative Assessment Marks: 60

Course Pre-requisite(s):

Course Outcomes (COs):

At the end of the course the student should be able to:

- i. Understand the basic concept of Sustainable Development (SD), the environmental, social and economic dimensions.
- ii. Know the history of the SD idea.
- iii. Be able to discuss the conflicts which are involved in the SD concept on the national as well as on the global scale.
- iv. Be able to discuss the (dis-)advantages of instruments for SD;
- v. Evaluate the sustainable development goals and their attainments

Unit	Description	Hrs
I	Environment, Development and Pollution	15
	Chapter 1: Meaning Characteristics of Environmental Goods and Services - Relationship between Environment and Development - Environmental Kuznets Curve – Meaning and Evidence - Sustainable Development – Meaning and Indicators Chapter 2: Resource Use and Management - Resource Taxonomy – Renewable and nonrenewable resources - Economic Theory of Depletable Resources - Optimal Use of Renewable Resources - Resource Scarcity and Economic Growth – Limits to Growth Model - Tragedy of Commons and common property Resources - Resource Pricing and Resource Conservation Chapter 3: Sustainable Development - Definitions, Objectives and Principles - Processes and Indicators of Sustainable Development - Approaches and Strategies for Sustainable Development - Environmental accounting Measures Practicum: Miniproject on impact of development on local environment	3 6 6
II	Sustainable Development Goals	10
	Chapter 4: Introduction and History - Brundtland Committee Recommendations - Rio Summit and Agenda 21 - SDGs: Goals, Targets and Indicators Chapter 5: Government and the SDGs - Planning - Localizing the SDGs - SDG Policy Instruments - Industrial Policies and the SDGs Chapter 6: Financing the SDGs - Types of financing - New financing mechanisms and global funds	3 4 3

	Practicum: Assignments on Progress in attainment of various SDGs in India and her states	
III	Issues in Implementing SDGs	17
	Chapter 7: Means to Realizing the SDGs • Degrowth and circular economy • Sustainable production and consumption • Sustainable cities and transportation • Sustainable designs, technology, digital revolution and innovation • Renewable energy Chapter 8: Implementing SDGs • governance and policy tools • openness, participation and accountability, • effectiveness and coherence; • India's framework for sustainable development Chapter 9: Other Issues • Social business, CSOs, and operations • Development Assistance • Cross-Border Cooperation Practicum: Group Discussion on case studies on sustainable practices and processes	8 5 4
Suggested Readings:		
• Baumol, W.J. and W.E. Oates (1988): <i>The Theory of Environmental Policy</i> (2e), CUP, Cambridge. • Bhattacharya, R.N. (Ed): <i>Environmental Economics: An Indian Perspective</i>, OUP, New Delhi. • Dalby, Simon, et al. <i>Achieving the Sustainable Development Goals: Global Governance Challenges</i>. Routledge, 2019. • Day, G.S., and P.J.H. Schoemaker (2011), Innovating in uncertain markets: 10 lessons for green technologies, MIT Sloan Management Review, 52.4: 37-45. • Elliott, Jennifer. <i>An introduction to sustainable development</i>. Routledge, 2012. • Gagnon, B., Leduc, R., and Savard, L., <i>Sustainable development in engineering: a review of principles and definition of a conceptual framework</i>. Working Paper 08-18, 2008. • Hanley, Shogren and White (1997): <i>Environmental Economics in Theory and Practice</i>, Macmillan. • Kolstad, C.D. (1999): <i>Environmental Economics</i>, OUP, ND. • Pearce, D.W. and R. Turner (1991): <i>Economics of Natural Resource Use and Environment</i>, John Hopkins Press, Baltimore. • Sachs, Jeffrey D. <i>The age of sustainable development</i>. Columbia University Press, 2015 • Tietenberg, T. (1994): <i>Environmental Economics and Policy</i>, Harper Collins, NY.		

Semester II

Course Title: OEC 2.3.3 : Economics of Business Environment	
Total Contact Hours: 42	Course Credits: 3
Formative Assessment Marks: 40	Duration of ESA/Exam: 3 Hrs
Model Syllabus Authors:	Summative Assessment Marks: 60

Course Pre-requisite(s):

Course Outcomes (COs):

At the end of the course the student should be able to:

- i. Explain the elements of Business environment.
- ii. Identify the environmental constraints in the growth of a business firm.
- iii. Analyze the ways to utilize the current environmental conditions to achieve higher business growth.

Unit	Content of Course	42 Hrs
I	Introduction to Business Environment	12
	Chapter 1: Introduction • Meaning and definition, objectives, importance and uses of study of business environment. Environmental analysis • Meaning, process of environmental analysis, limitations of environmental analysis, environmental factors • The Micro environment of business and the macro environment of business. Chapter 2: Economic Environment • Meaning of Economic Environment • Characteristics of Indian economy • Impact of Liberalization Privatization & Globalization of Indian Business. • Monetary policy – Meaning, objectives • Fiscal policy – Meaning, objectives, budget and importance • EXIM policy – meaning and objectives • Industrial policy – meaning, objectives (Latest Policy Measures). Chapter 3: Global Business Environment • Meaning • Globalization: Nature and Impact of globalization • Challenges of international business • GATT and WTO and its implications on Indian economy. Practicum 1. Identification of the impact of business environment through surveys 2. Group discussion on WTO and its impact on Indian business	3 6 3
II	Non-Economic Environment	10
	Chapter 4: Social and Cultural Environment • Business and Society • Social Objectives of Business • Corporate Social Responsibility • Consumer Rights & Corporate Governance • Business Ethics Chapter 5: Technological Environment: • Meaning • Technological changes – R & D in India	4 2

	- Public and Private Investment in R and D. Chapter 6: Financial Environment - Introduction and Meaning - An Overview of Indian Financial System - Financial Institutions and their Roles - Role of Foreign Direct Investment and its impact on Indian Business Practicum: Students are expected to analyze the major economic and financial indicators such as GDP, Inflation, CPI, BSE, NSE, Currency, Gold rate, Oil barrel price etc., for a particular period of time and submit the report on the same.	4
III	Government and Business in India	22
	Chapter 7: Political Environment - Introduction and Meaning - Political Environment and the Economic system - Government and Business Relationship in India - Provisions of Indian Constitution for Business Chapter 8: Legal Environment of Business - Indian Company Law - Competition policy and law - Patents & Trademarks - Industrial Policy- An overview - Labor Laws & Social Security, - Environmental Laws. Chapter 9: Current Issues - Ease of Doing Business - Performance of MSMEs - Make in India, - Development of economic and social infrastructure - National Monetization Pipeline (The teacher should include the latest policy of the government) Practicum: Students are expected to give a report on how the economic environment has affected the performance of any five large Indian Business Houses.	4 8 10
REFERENCES:		
Francis Cherunilam: Business Environment, Himalaya Publishing House, Mumbai.		
K. V. Sivayya and VBM Das: Indian Industrial Economy, Sulthan Chand Publications, Delhi.		
M. Adhikari: Economic Environment of Business, Sulthan Chand and Sons, New Delhi.		
Raj Agarwal: Business Environment, Excel Publications, New Delhi.		

SYLLABUS FOR FIRST TWO SEMESTERS OF BS.C
AND
BS.C HONORS
In
ECONOMICS

Name of the Programme: Bachelor of Science (B. Sc)

Course Coe: B. Sc. 1.1

Name of the Course: Microeconomics

Course Credits	Number of Hours per Week	Total No of Teaching Hours
3 Credits	3 Hours	42 Hrs
Course Outcome: On Successful completion of the course, the student will be able to; 1. Analyse the economic behaviour of the consumer and the firm 2. Explain the relationship between various variables such as Input and output, cost and output, price of the product and quantity demand and so on 3. Product and Factor pricing under different market structure		
Unit – 1 : Introduction to Economics, Demand and Supply		14
Chapter-1 introduction to Economics: Nature and scope of economics, Basic Concepts in economics, Importance of study of Economics, Understanding the economy, Mankiw's ten principles of economics		7
Chapter- 2: Demand: Meaning and Determinants of Demand, the Demand Schedule, The Law of Demand Exceptions to the Law of Demand, Elasticity of Demand: Meaning- Types: Price, Income and Cross Elasticity, Measurement of Elasticity of Demand		6
Chapter- 3: Supply: Concept of Supply, the Law of Supply, and Determinants of Supply.		1
Unit – 2 Theory of Demand and Production function		14
Chapter-4. Cardinal Analysis: Utility: Law of diminishing marginal utility, equi-marginal utility, consumer's equilibrium, Consumer surplus and its application		3
Chapter-5. Ordinal analysis: Meaning of Indifference curves- Indifference Schedule- Indifference Map, properties of Indifference curves Budget line-Equilibrium position, Income, Price and substitution effects -inferior goods v/s Geffen goods, Samuelson's revealed preference theory		6
Chapter-6. Production Function Production Function - The Law of Variable Proportion - the Law of Returns to Scale- Least cost combination of Inputs		5
Unit – 3: Cost, Revenue, Price and Output determination under different Markets		14
Chapter No. 7 Cost Concepts, Cost output relationship in the short-run and long-run		4
Chapter No. 8. Concepts of Revenue: Total, Average and Marginal Revenue Curve		1
Chapter No. 9. Price and Output determination under different market: Meaning and features of perfect competitive market, Monopoly, Monopolistic competition and oligopoly, Price and Output determination under these markets		9

Text Books

Ahuja H.L (2017) Advanced Economic Theory, S. Chand and Company, New Delhi.

Koutsoyiannis A, (2008) Modern Microeconomics, Macmillan, London.

References

Dominick Salvatore (2002) Theory and Problems of Microeconomic Theory, Schaum's Outline Series, McGraw-Hill Book Company, Singapore.

Ferguson C.E and Maurice S. Charles, (1978) Economic Analysis-Theory and Applications, Richard D. Irwin Inc. USA.

Hubbard R. Glenn and Anthony Patrick O'Brien, (2016) Microeconomics, Pearson Prentice Hall, New Jersey.

Pindyck Robert S., and Daniel L. Rubinfeld, (2012) Microeconomics, Pearson Prentice Hall, New Jersey.

Varian, H. R., "Intermediate Microeconomics: A Modern Approach", W. W. Norton and Company, 8th Edition, 2010

Name of the Programme: Bachelor of Science (B. Sc)

Course Coe: B. Sc. 1.2

Name of the Course: Mathematics for Economics

Course Credits	Number of Hours per Week	Total No of Teaching Hours
3 Credits	3 Hours	42 Hrs
Course Outcome: On Successful completion of the course, the student will be able to; 1. Perform basic operations in Vectors and Matrix algebra. 2. Calculate limits, derivatives and integrals of functions of multiple variables. 3. Calculate Optima for constrained and unconstrained optimization problems encountered in Economics.		
Unit – 1: Basics of Mathematical Economics, Vectors, Matrices and Their applications		14
Chapter-1 Basics of Mathematical Economics: Nature of Mathematical Economics and its applications in Economic Analysis -Mathematical Model: Variables, Constants, Parameters, Equations and Identities- Sets: Set notation, operations, finite and infinite sets, laws of set operations		5
Chapter-2 Relations and Functions: Ordered pairs, relations and functions - Meaning and types of functions- constant function, polynomial functions, rational functions and non-algebraic functions. Simultaneous Equations- Vectors -vector spaces, linear dependence		4
Chapter-3 Matrices: Matrix Operations- Addition and Subtraction, Matrix Multiplication, Commutative, Associative and Distributive laws-Transpose - Inverse Matrix - Determinants: Properties, Rank of Matrix, Minor, Co-factor - Cramer's Rule, Derivation and its Applications in Economics		5
Unit – 2: Comparative Statics and Derivatives		14
Chapter- 4. Nature of Comparative Statics, Rate of Change and the Derivative -The concept of limit, limit theorems		3
Chapter–5: Continuity and Differentiability of a function – rules of differentiation of a function, Constant Functions, Linear, Power, Sums and Differences of Functions, Product of Functions, Quotient of Functions, Chain Rule, Exponential and Logarithmic Functions		5
Chapter - 6. Functions of Two or More Variables - Partial Derivatives, Higher Order Partial Derivatives, the Chain Rule and Total Derivatives- Maxima and Minima – One and two variables- Differential Equations- First Order Linear Differential Equations- Nonlinear First Order Differential Equations- Second Order Linear Differential Equations		6
Unit – 3: Integration and Optimization Techniques		14
Chapter - 7 Concept of Integration -Rules of Integration – Definite Integrals – Area and summation – Indefinite Integration.		4
Chapter - 8. Applications integrations in Economic Analysis-Consumers Surplus- Producers surplus-Obtaining primitive function from marginal function		5

Text Books

Chiang, A. C. and Wainwright, K., “Fundamental Methods of Mathematical Economics”, McGraw-Hill/Irwin, 4th Edition, 2005.

Sydsaeter, K and Hammond, P., Mathematics for Economic Analysis, Pearson Educational Asia, 4th Edition, 2002.

References

Allen R.G.D., (2015) Mathematical Analysis for Economists, Macmillan.

Bose D., (2003) An Introduction of Mathematical Economics, Himalaya Publishing House, Mumbai.

Sydsaeter, K and Hammond, P., Mathematics for Economic Analysis, Pearson Educational Asia, 4th Edition, 2002.

Dowling, E. T., “Introduction to Mathematical Economics”, McGraw-Hill, 2001.

Hoy, M., Livernois, J. McKenna, C, Rees, R. and Stengos, T., “Mathematics for Economics”, MIT Press, 3rd Edition, 2011

Yamane Taro, (2002) Mathematics for Economists - An Implementer Analysis, Phi Learning Publishers.

Semester 1

Course Title: OEC 1.3.1: Economics of Business Environment	
Total Contact Hours: 42	Course Credits: 3
Formative Assessment Marks: 40	Duration of ESA/Exam: 3 Hrs
Model Syllabus Authors:	Summative Assessment Marks: 60

Course Pre-requisite(s):

Course Outcomes (COs):

At the end of the course the student should be able to:

- iv. Explain the elements of Business environment.
- v. Identify the environmental constraints in the growth of a business firm.
- vi. Analyze the ways to utilize the current environmental conditions to achieve higher business growth.

Unit	Content of Course	42 Hrs
I	Introduction to Business Environment	12
	Chapter 1: Introduction • Meaning and definition, objectives, importance and uses of study of business environment. Environmental analysis • Meaning, process of environmental analysis, limitations of environmental analysis, environmental factors • The Micro environment of business and the macro environment of business. Chapter 2: Economic Environment • Meaning of Economic Environment • Characteristics of Indian economy • Impact of Liberalization Privatization & Globalization of Indian Business. • Monetary policy – Meaning, objectives • Fiscal policy – Meaning, objectives, budget and importance • EXIM policy – meaning and objectives • Industrial policy – meaning, objectives (Latest Policy Measures). Chapter 3: Global Business Environment • Meaning • Globalization: Nature and Impact of globalization • Challenges of international business • GATT and WTO and its implications on Indian economy. Practicum 3. Identification of the impact of business environment through surveys 4. Group discussion on WTO and its impact on Indian business	3 6 3
II	Non-Economic Environment	10
	Chapter 4: Social and Cultural Environment • Business and Society • Social Objectives of Business • Corporate Social Responsibility • Consumer Rights & Corporate Governance • Business Ethics Chapter 5: Technological Environment: • Meaning • Technological changes – R & D in India	4 2

	- Public and Private Investment in R and D. Chapter 6: Financial Environment - Introduction and Meaning - An Overview of Indian Financial System - Financial Institutions and their Roles - Role of Foreign Direct Investment and its impact on Indian Business Practicum: Students are expected to analyze the major economic and financial indicators such as GDP, Inflation, CPI, BSE, NSE, Currency, Gold rate, Oil barrel price etc., for a particular period of time and submit the report on the same.	4
III	Government and Business in India	22
	Chapter 7: Political Environment - Introduction and Meaning - Political Environment and the Economic system - Government and Business Relationship in India - Provisions of Indian Constitution for Business Chapter 8: Legal Environment of Business - Indian Company Law - Competition policy and law - Patents & Trademarks - Industrial Policy- An overview - Labor Laws & Social Security, - Environmental Laws. Chapter 9: Current Issues - Ease of Doing Business - Performance of MSMEs - Make in India, - Development of economic and social infrastructure - National Monetization Pipeline (The teacher should include the latest policy of the government) Practicum: Students are expected to give a report on how the economic environment has affected the performance of any five large Indian Business Houses.	4 8 10
REFERENCES:		
Francis Cherunilam: Business Environment, Himalaya Publishing House, Mumbai.		
K. V. Sivayya and VBM Das: Indian Industrial Economy, Sulthan Chand Publications, Delhi.		
M. Adhikari: Economic Environment of Business, Sulthan Chand and Sons, New Delhi.		
Raj Agarwal: Business Environment, Excel Publications, New Delhi.		

Semester 1

Course Title: OEC 1.3.2: Development Studies (OEC)	
Total Contact Hours: 42	Course Credits: 3
Formative Assessment Marks: 40	Duration of ESA/Exam: 3 Hrs
Model Syllabus Authors:	Summative Assessment Marks: 60

Course Pre-requisite(s): 12th Standard Pass

Course Outcomes (COs):

At the end of the course the student should be able to:

- v. Graduates will be able to excel in higher studies and/or to succeed in profession.
- vi. Graduates will get a solid foundation of fundamentals required to solve socioeconomic problems and also to pursue higher studies.
- vii. Graduates will demonstrate knowledge to appreciate of the dimensions of contemporary development issues, to generate sensitivity to problems concerning ethics and human values to develop orientation towards effective communication and critical analysis, and to appreciate the interrelationships among disciplines as they relate to everyday realities.
- viii. Graduates will cultivate professional and ethical attitude, effective Communication skills, teamwork skills, multidisciplinary approach, and to facilitate an advanced understanding and appreciation of the principles, methodologies, value systems, and thought processes employed in human inquiries.

Unit	Description	Hrs
I	Development: Meaning and Current Challenges	9
	Chapter 1: Meaning of Development	3
	- The concept of development, - Growth and Development - Transition from quantitative to qualitative indices	3
	Chapter 2: Modern economic growth	3
	- Characteristics of modern economic growth - Regional and global disparities - Common characteristics and dissimilarities among developing countries.	3
	Chapter 3: Current Development Challenges	
	- Inequality - Migration - Conflicts	
	Practicum:	
II	Approaches to Development	12
	Chapter 4: Development Ethics	2
	- Concept and meaning - Principles and importance of Development Ethics	
	Chapter 5: Assessing Development	4
	- Per capita income - PQLI - Choice and Capabilities - HDI	
	Chapter 6: Approaches of Development	6
	- Adam Smith - Marx	

	- Schumpeter - Structuralist approach - Neo-liberalism, IMF and structural adjustment - Capabilities Approach Practicum:	
III	Theories and Current Issues in Development	21
	Chapter 7: Theories of Development - Theorizing Development - Modernization Theory, Dependency Theory - Capitalist World System - The evolution of thought on poverty reduction - Colonial Regimes and Their Legacies Chapter 8: The Industrial Revolution - Genesis and Spread - International specialization of Labour/Industry - Industrial Labour - ILO and its activities to promote labour standards Chapter 9: Environment and development - Increasing degradation of natural environment – water and air pollution and deforestation - Depletion of global commons - Sustainable development - concept and measures - SDGs - Climate Change – Causes, Impact, Measures of Mitigation and Adaptations Practicum:	6 5 10
Suggested Readings: - Crocker, D. (2008). Ethics and development theory-practice, Ethics of Global Development Agency, Capability, and Deliberative Democracy, 67-106 - Des Gasper (2008), ‘Denis Goulet and the Project of Development Ethics: Development, 8, 99. 481-9, Elsevier Science, 1, pp.10-26. - Drèze, Jean and Amartya Sen(2002), India: Development and Participation, second edition. Oxford: Oxford University Press. - Gasper, D. (2004). The ethics of development: From Economism to human development. Edinburgh: Edinburgh University Press - Huntington, Samuel (1971), The change to change: Modernization, development and politics. Comparative Politics, 3. - Myrdal, Gunnar. (1974), “What is Development?” Journal of Economic Issues 8(4):729-736. - Peet, Richard with Elaine Hartwick (2009), Theories of Development: Contentions, Arguments, Alternatives (2nd edition). New York: Guilford. - Sen, Amartya (1999) Development as Freedom. New York: Anchor Books.		

Name of the Programme: Bachelor of Science (B. Sc)

Course Coe: B. Sc. 1.3.3 (OE)

Name of the Course: Managerial Economics

Course Credits	Number of Hours per Week	Total No of Teaching Hours
3 Credits	3 Hours	42 Hrs
Course Outcome: On Successful completion of the course, the student will be able to; 1. Forecast the demand for goods and services 2. Analyse the efficiency of resource use in the production 3. Understand the determination of price and output under different market besides the methods of pricing in practice		
Content of Course 1		42 Hrs
Unit – 1 Introduction to Managerial economics, Demand analysis and Forecasting		14
Chapter-1: Meaning, nature and scope of Managerial Economics- Organisation of business firms- General Objectives of business firms		3
Chapter-2: Application of Basic Economic Principles to Managerial Problems: Incremental, Discounting, Time Perspective, Opportunity Cost and Equi-Marginal Principle		5
Chapter-3: Demand and its determinants- Elasticity of demand; Meaning, types and determinants-Meaning and Objective Demand Forecasting - Methods of demand forecasting and their usefulness and limitations		6
Unit – 2 : Production Analysis, Cost Analysis and Determination of price		14
Chapter- 4.: Managerial applications of production function- Laws of returns and their applications -Least cost combinations of inputs		
Chapter - 5. Cost concepts and cost function- Cost-output relationship and its usefulness in production decision		
Chapter - 6. Price and output determination in various markets; Perfect competition, monopoly, monopolistic competition and oligopoly		
Unit – 3: Pricing Methods in Practice, Profit Management and Capital Budgeting		14
Chapter – 7: Pricing Methods in Practices: Specific Pricing Problems - Popular Pricing Practices: Cost-Oriented Pricing, Cost-Plus Pricing and Other Price Determinants, Peak - Load Pricing, Price over the Life Cycle of the Product, Penetration Price - Pricing of Multiple Products		5
Chapter – 8: Profit Analysis: Meaning of Profit - Accounting Profit and Economic Profit- Break-Even Analysis - Problems, Break-even Quantity, Break-Even Sales - Targeted Profit, Safety Margin.		5
Chapter – 9: Capital Budgeting: Meaning and Importance - Techniques: Payback Period and Net Present Value (NPV) Method.		4

Text Books

Salvatore Dominick, (2014) Managerial Economics in a Global Economy, McGraw Hill Inc., New York.

Mehta P.L., (2007) Managerial Economics: Analysis, Problems and Cases, Sultan Chand and Sons, New Delhi.

References

Mc Guigon R. James, R. Charles Moyer, Frederick H Deb, Harris (2017) Managerial Economics: Applications, Strategy and Tactics, South Western, USA

Keat Paul G. and Philip K.Y. Young, (2003) Managerial Economics- Economic Tools for Today's Decision Makers, Prentice Hall, New Jersey.

Petersen H. Craig and W. Cris Lewis, (2006) Managerial Economics, Maxwell Macmillan International Editions, New York.

Samuelson William F, and Stephen G. Marks, (2006) Managerial Economics, John Wiley and Sons, Inc., New Jersey

Name of the Programme: Bachelor of Science (B. Sc)

Course Coe: B. Sc. 2.1

Name of the Course: Macroeconomics

Course Credits	Number of Hours per Week	Total No of Teaching Hours
3 Credits	3 Hours	42 Hrs
Course Outcome: On Successful completion of the course, the student will be able to; 1. Explain the concept of National Income and methods of its estimation 2. Analyse the relationship between Macroeconomic variables 3. Understand the determination of income and employment under Classical and Keynesian framework		
Unit – 1: Introduction to Macroeconomics and National Income accounting		14
Chapter-1: Introduction to Macroeconomics: Nature of Macroeconomics and its significance, Indicators of Macro Economic Activity - Key Concepts: Stock and flow variables.		3
Chapter-2 Building blocks of Macroeconomic Analysis: Aggregate Demand (AD) curve, Aggregate Supply (AS) curve, Sources of shift in AD an AS, Equilibrium in National Income and Price level, Unemployment and National Income, Inflation and Unemployment, Circular flow of Income, Goods market and Money Market		4
Chapter-3 National Income Accounting: Measurement of Macro Variables and Economic Performance: National Income Accounting - <i>Important Concepts:</i> GNP, GDP, NNP, NDP, NI, PI, DPI- Real GDP versus Nominal GDP- GDP deflator- <i>Method of estimating National Income-</i> Expenditure Method- Income method-Value added or Net Product method- Difficulties in National Income Accounting- Trends in GDP in India -GNP and Quality of Life - Net Economic Welfare - Green Income.		7
Unit – 2: Classical and Keynesian Macroeconomics		14
Chapter- 4. Classical Theory: Introduction to classical theory of employment - Basic Assumptions of the Classical School- Say's law of Market- Determinants of Output, Employment, Savings, Investment, Wages, Prices, Interest Rate - Equilibrium Output and Employment-Implications of Classical Full-Employment Model-Critical Evaluation.		5
Chapter - 5. Keynesian Macroeconomics: Principle of effective demand- Keynesian theory of output, income and employment- Equilibrium Income and Output in Simple Two Sector Model, Three Sector & Four Sector Models		4
Chapter- 6: Keyes Psychological law of consumption- An Overview of Post Keynesian theories of consumption: absolute income, relative income, permanent income & life cycle hypothesis- Multiplier and Accelerator Analysis -Marginal Efficiency of Capital- Relevance and Critique of Keynesian Macroeconomics		5
Unit – 3 Recent Debates in Macroeconomics		14
Chapter - 7 Supply side Economics		4
		5

Chapter - 8. Money market and Goods market equilibrium-IS-LM model-Business cycle- Concept and theories	
Chapter - 9. Macroeconomic policies; Monetary Policy and Fiscal Policy-Relative effectiveness of monetary and fiscal policy	5

Text Books

Ahuja H L (2013) Macroeconomics: Theory and Policy, S Chand & Company Pvt Ltd. New Delhi

Mankiw N. Gregory, (2012) Macroeconomics, Worth Publishers, New York.

Shapiro Edward, (2004) Macroeconomic Analysis, Galgotia Publications Pvt. Ltd, New Delhi.

References

Ackley Gardner, (1978) Macroeconomics: Theory and Policy, Macmillan, New York

Dornbusch, R., Fischer, S. and Startz, R., “Macroeconomics”, McGraw-Hill, 11th Ed 2010

D’Souza E., “Macroeconomics”, Pearson Education, 2009

Froyen Richard T. (2013) Macroeconomics-Theories and Policies, Macmillan Pub., Company, NY.

Hubbard R. Glenn and Anthony Patrick O'Brien, (2012) Macroeconomics, Pearson Prentice, New Jersey, USA.

Oliver Blanchard, (2016) Macroeconomics, Pearson Prentice Hall, New Jersey, USA.

Name of the Programme: Bachelor of Science (B. Sc)

Course Coe: B. Sc. 2.2

Name of the Course: Statistics for Economics

Course Credits	Number of Hours per Week	Total No of Teaching Hours
3 Credits	3 Hours	42 Hrs
Course Outcome: On Successful completion of the course, the student will be able to; 1. Calculate basic descriptive and inferential statistics. 2. Interpret descriptive and inferential statistics. 3. Explain the process of hypothesis testing		
Unit – 1: Basics of Statistics for economics, Measures of central tendency and dispersion		14
Chapter-1 Basics of Statistics for Economics: Why Study Statistics - Importance of Statistics in Economics- Descriptive and Inferential statistics -Data - Elements, Variables, and Observations, Scales of Measurement - Qualitative and Quantitative Data - Cross-Sectional and Time Series data- Data sources - Computers and Statistical Analysis		4
Chapter-2 Measures of Central Tendency: Arithmetic mean, median, mode, Geometric mean and Harmonic mean measurement and applications in Economics		5
Chapter-3 Measures of dispersion- Meaning and significance of measure of dispersion -Measurement and applications of Range , quartile deviation, mean deviation , standard deviation , variance and coefficient of variation		5
Unit – 2 Correlation, Regression, Time Series Analysis and Index Numbers		14
Chapter- 4. Correlation and Regression: Meaning and types of correlation, methods of computation of correlation coefficient –Karl Pearson’s method, Spearman’s rank correlation method- Regression –meaning and importance of regression analysis, simple regression lines and equations and forecasting (two variables only)		6
Chapter - 5. Time Series: Nature and Decomposition of Time Series - Analysis of Trend - Moving Average Method, Least-Square Method		3
Chapter - 6. Index Numbers: Nature and Purpose of Index Numbers - Types of Index Numbers: Price Index - Quantity Index, Link and Chain Index - Simple and Aggregate Index Numbers -Laspyre’s Index, Paasche’s Index, Marshall and Edgeworth's Index - Fisher’s Index – Time- Reversal and Factor Reversal Tests-Deflation and Splicing of Index Numbers - Problems in the Construction of Index Numbers - Limitation of Index Numbers.		5
Unit - 3 Introduction to Probability Distributions and Hypothesis Testing		14
Chapter - 7 Probability: Basic Concepts- Properties of Probability- Expected Values, Conditional Probability Random Variables: Discrete and Continuous		3
Chapter - 8. Probability Distributions - Probability Density Functions and Cumulative Distribution Functions – Expected values and Moments - The Binomial Probability Distribution, Poisson and Normal Distribution		6

Chapter - 9. Hypothesis Testing: Meaning of Hypothesis testing-Null and Alternative hypothesis, level of significance, One-tailed and two-tailed tests, Type I, Type II errors - Approaches to Hypothesis Testing - Confidence Interval Approach -Test of Significance Approach	5
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Text Books

Gupta S P. (2012) *Statistical Methods*, S. Chand and Company, New Delhi.

References

Anderson, Sweeney & Williams, (2002) *Statistics for Business & Economics*, Thomson South-Western, Bangalore.

Daniel and Terrel: *Business Statistics for Management and Economics*; Hoaghton Mifflin Co., Boston, Toronts, 7th Edition, 1995, PP 1 to 972 + 6 Appendices

Medhi, J., *Statistical Methods: An Introductory Text*, Wiley, 1992

Morris H. Degroot and Mark J. Schervish, "Probability and Statistics", 4th edition, 2012.

Teresa Bradley, *Essential Statistics for Economics, Business and Management*, John Willey Publisher, 2007

Semester II

Course Title: OEC 2.3.1: Kautilya's Arthashastra (OEC)	
Total Contact Hours: 42	Course Credits: 3
Formative Assessment Marks: 40	Duration of ESA/Exam: 3 Hrs
Model Syllabus Authors:	Summative Assessment Marks: 60

Course Pre-requisite(s): 12th Standard Pass

Course Outcomes (COs):

At the end of the course the student should be able to:

1. This course will enlighten the students about the ancient fundamentals about political and economic constituents, which will frame out a basic land of understanding the modern trends. This will help them to understand the upcoming needs in the area of policy making for states at national and international level.
2. This treatise deals with the science of Governance, so it projects out all the dimensions needed to be understood by students about the present socio-economic and political rules and regulations of the state.

Unit	Description	Hours
I	Chapter 1: Introduction to the Arthashastra,	2
	Chapter 2: Various disciplines of Indian Education System,	2
	Chapter 3: Place of Kautilya Arthashastra among them,	2
II	Chapter 4: Importance of science dealing with governance - Introduction to Tantrayuktis – The methods of preparing a compendium, tools and techniques of writing a compendium.	5
	Chapter 5: Governance Procedure- Appointment of the ministers, duties of Government superintendents, treasury, spies, royal writ, punishment- Vakparushya and Dandaparushya;	5
	Chapter 6: Laws of Inheritance – Determination of forms of Agreements, determination of legal disputes, Division of inheritance, Special shares in inheritance, Distinction between sons	5
III	Chapter 7: Economic Dimension- Body of income of the state, collection of revenue, duties of a Chamberlin (koshadhyksha), forty ways of embezzlement of the revenue, punishment for the embezzlement of revenue, expenditure, Loss and Profit, Keeping up the Accounts, Recovery of Debts, Deposits of the state, Resumption of the gifts, Remission of Taxes	9
	Chapter 8: Political Dimension- Six-fold Policy- War, Combination of Powers, Agreement of Peace with or without definite terms, Double Policy, Circle of States, Conduct of Corporations, Secret means, Plan of treatise,	9
	Chapter 9: Defence and Warfare: Planning of different Vyuhas in War	3
Suggested readings: 1. Arthashastra of Kautilya by T. Ganapati Shastri, Chaukhambha Surbharti Prakashana, Varanasi, India, 2005.		

2. Arthashastra of Kautilya by Sri. Vacaspati Gairola, Chaukhambha Vidyabahavan, Varanasi, India, 2013.
3. Kautilya, The Arthashastra by L.N. Rangarajan, Penguin Books Ltd, London.
4. Kautilya's Arthashastra: The Way of Financial Management and Economic Governance, Jaico Publishing House, Mumbai, India.

Semester II

Course Title: OEC 2.3.2: Indian Economy Prior to Economic Reforms (OEC)	
Total Contact Hours: 42	Course Credits: 3
Formative Assessment Marks: 40	Duration of ESA/Exam: 3 Hrs
Model Syllabus Authors:	Summative Assessment Marks: 60

Course Pre-requisite(s): 12th Standard Pass

Course Outcomes (COs):

At the end of the course the student should be able to:

- vi. Trace the evolution of Indian Economy
- vii. Identify the structural features and constraints of the Indian economy
- viii. Evaluate planning models and strategy adopted in India
- ix. Analyze the sector specific problems and contributions towards overall economic growth
- x. Review various economic policies adopted

Unit	Description	Hours
I	Features and problems of Indian Economy	15
	Chapter 1: Features of Indian Economy - India as a developing economy, - Demographic features - Human Development (HDI), - Problems of Poverty, Unemployment, Inflation, income inequality Chapter 2: Issues in Agriculture sector in India - Land reforms - Green Revolution - Agriculture marketing in India - Agricultural price policy Chapter 3: Industrial and Service Sector - Industrial development; - Micro, Small and Medium Enterprises, - Industrial Policy - Performance of public sector in India, - Service sector in India. Practicum: 1. Identifying economic problems and their causes; 2. Mini-project on any aspect of Indian agriculture, industry, service and public sectors	4 6 5
II	Economic Policies	13
	Chapter 4: Planning - Mixed Economy - Bombay Plan - Gandhian Model - Nehru Mahalanobis Model - Objectives and achievements of economic planning in India Chapter 5: Monetary policy in India - Instruments of Monetary Policy - Black money in India – Magnitude and Impact Chapter 6: Fiscal Policy in India - Tax Revenue	5 2 6

	• Public expenditure • Budgetary deficits • Fiscal reforms • Public debt management and reforms • Centre state Finance Relations and Finance commissions in India. Practicum: Assignment on successes and failures of India's planning; Monetary and Fiscal Policy instruments	
III	External sector and Nature of Reforms in India	14
	Chapter 7: India's foreign trade • Salient features • Value, composition and direction of trade • Balance of payments • Goal of self-reliance based on import substitution and protection • Tariff policy • Exchange rate Chapter 8: Post-1991 strategies • Stabilisation and structural adjustment packages • Liberalisation Privatisation Globalisation (LPG) Model • Impact of LPG Policies on Indian Economy Chapter 9: NITI Ayog • Organization • Functions Practicum: Calculation of BoP and evaluating trade policies; Assignment and group discussion on the impact of LPG Policies	6 6 2
Suggested Readings: 1. Dutt Ruddar and K.P.M Sundaram (2001): Indian Economy, S Chand & Co. Ltd. New Delhi. 2. Mishra S.K & V.K Puri (2001) "Indian Economy and –Its development experience", Himalaya Publishing House. 3. Kapila Uma: Indian Economy: Policies and Performances, Academic Foundation 4. Bardhan, P.K. (9th Edition) (1999), The Political Economy of Development in India, Oxford University Press, New Delhi. 5. Jalan, B. (1996), India's Economic Policy- Preparing for the Twenty First Century, Viking, New Delhi.		

Semester II

Course Title: OEC 2.3.3: Sustainable Development	
Total Contact Hours: 42	Course Credits: 3
Formative Assessment Marks: 40	Duration of ESA/Exam: 3 Hrs
Model Syllabus Authors:	Summative Assessment Marks: 60

Course Pre-requisite(s):

Course Outcomes (COs):

At the end of the course the student should be able to:

- vi. Understand the basic concept of Sustainable Development (SD), the environmental, social and economic dimensions.
- vii. Know the history of the SD idea.
- viii. Be able to discuss the conflicts which are involved in the SD concept on the national as well as on the global scale.
- ix. Be able to discuss the (dis-)advantages of instruments for SD;
- x. Evaluate the sustainable development goals and their attainments

Unit	Description	Hrs
I	Environment, Development and Pollution	15
	Chapter 1: Meaning Characteristics of Environmental Goods and Services - Relationship between Environment and Development - Environmental Kuznets Curve – Meaning and Evidence - Sustainable Development – Meaning and Indicators Chapter 2: Resource Use and Management - Resource Taxonomy – Renewable and nonrenewable resources - Economic Theory of Depletable Resources - Optimal Use of Renewable Resources - Resource Scarcity and Economic Growth – Limits to Growth Model - Tragedy of Commons and common property Resources - Resource Pricing and Resource Conservation Chapter 3: Sustainable Development - Definitions, Objectives and Principles - Processes and Indicators of Sustainable Development - Approaches and Strategies for Sustainable Development - Environmental accounting Measures Practicum: Miniproject on impact of development on local environment	3 6 6
II	Sustainable Development Goals	10
	Chapter 4: Introduction and History - Brundtland Committee Recommendations - Rio Summit and Agenda 21 - SDGs: Goals, Targets and Indicators Chapter 5: Government and the SDGs - Planning - Localizing the SDGs - SDG Policy Instruments - Industrial Policies and the SDGs Chapter 6: Financing the SDGs - Types of financing - New financing mechanisms and global funds	3 4 3

	Practicum: Assignments on Progress in attainment of various SDGs in India and her states	
III	Issues in Implementing SDGs	17
	Chapter 7: Means to Realizing the SDGs • Degrowth and circular economy • Sustainable production and consumption • Sustainable cities and transportation • Sustainable designs, technology, digital revolution and innovation • Renewable energy Chapter 8: Implementing SDGs • governance and policy tools • openness, participation and accountability, • effectiveness and coherence; • India's framework for sustainable development Chapter 9: Other Issues • Social business, CSOs, and operations • Development Assistance • Cross-Border Cooperation Practicum: Group Discussion on case studies on sustainable practices and processes	8 5 4
Suggested Readings:		
• Baumol, W.J. and W.E. Oates (1988): <i>The Theory of Environmental Policy</i> (2e), CUP, Cambridge. • Bhattacharya, R.N. (Ed): <i>Environmental Economics: An Indian Perspective</i>, OUP, New Delhi. • Dalby, Simon, et al. <i>Achieving the Sustainable Development Goals: Global Governance Challenges</i>. Routledge, 2019. • Day, G.S., and P.J.H. Schoemaker (2011), Innovating in uncertain markets: 10 lessons for green technologies, MIT Sloan Management Review, 52.4: 37-45. • Elliott, Jennifer. <i>An introduction to sustainable development</i>. Routledge, 2012. • Gagnon, B., Leduc, R., and Savard, L., Sustainable development in engineering: a review of principles and definition of a conceptual framework. Working Paper 08-18, 2008. • Hanley, Shogren and White (1997): <i>Environmental Economics in Theory and Practice</i>, Macmillan. • Kolstad, C.D. (1999): <i>Environmental Economics</i>, OUP, ND. • Pearce, D.W. and R. Turner (1991): <i>Economics of Natural Resource Use and Environment</i>, John Hopkins Press, Baltimore. • Sachs, Jeffrey D. <i>The age of sustainable development</i>. Columbia University Press, 2015 • Tietenberg, T. (1994): <i>Environmental Economics and Policy</i>, Harper Collins, NY.		



BENGALURU CITY UNIVERSITY

CHOICE BASED CREDIT SYSTEM

**(Semester Scheme with Multiple Entry and Exit Options for
Under Graduate Course- as per NEP 2020)**

**Syllabus for Economics
III & IV Semester**

2022-23 onwards

Request to Fellow Teachers;

In the BCU BOS (UG) Economics meeting held on 15-9-2022, taking cognise of the teacher's and student's request, the BOS members unanimously opined that for BA Honours DSC 3.2 and DSC 4. 2 papers should be given a choice so that students can choose one.

After deliberations, it was decided that DSC 3.2.1 would be Mathematics for Economics and 3.2.2 would be Agriculture Economics, DSC 4.2.1 would be Statistics for Economics, and 4.2.2 would be Monetary Economics so that students could opt for one of them each semester.

In view of enhancing the skills and employability of the students, teachers are requested to motivate the students to take Mathematics for Economics in the third Semester and Statistics for Economics in the fourth Semester.

- S.R.Keshava

Acknowledgement

The Chairperson and Members thank Honourable Vice-Chancellor Prof. Lingaraja Gandhi for the opportunity provided to serve in BOS. Also, thank the officials of the University for providing the logistics.

BOS Members

Dr.S.R.Keshava	Chairperson
Ms. M.S.Rukmini	Member
Ms. Jayanthi P. N	Member
Ms. Joyce Metilda Irudayam	Member
Dr. Revanna Siddeshwara M Kunthimut	Member
Dr. Shoba V Bhimsen	Member
Ms.Shrilatha A	Member
Mr.Ramesh Kumar L	Member
Mr. Clement Joseph D'souza	Member
Dr. Sudha B V	Member

Formative Assessment

Pedagogy: Classroom lectures, tutorials, Problem-solving exercises, seminars, presentations, activities, group discussions, field visits, project work, etc.,

Formative Assessment for C1 & C2		
Assessment Occasion/ type	Marks	
	C1	C2
Internal Test	10	10
Assignment/Seminar	05	
Quiz	05	
Case study /Fieldwork / Project work/ Industrial Visit and Prepare areport	-	10
Total	40 Marks	
Formative Assessments, as per NEP guidelines, are compulsory		

Note: Strictly follow the Practicum

Question Paper Pattern for 60 Marks for BA/B.Sc. in Economics (DSC, DSEC &OEC)

Section A (Objective type/multiple choice

Answer any ten of the following out of 12 questions. Each question carries One mark.
(1X10 = 10)

1.

- a)
- b)
- c)
- d)
- e)
- f)
- g)
- h)
- i)
- j)

k)

l)

m)

Section B

(Questions for testing the knowledge of theories and application)

Answer any **six** of the following out of 8 questions. Each question carries **Five** marks

(5X6=30)

2.

3.

4.

5.

6.

7.

8.

9.

Part C

(Questions for testing the critical ability of understanding)

Answer any two of the following out of 3 questions. Each question carries **Ten** marks

(10 X2=20)

10.

11.

12.

B A Honors Economics Syllabus for III and IV Semester –
Effective from 2022-23 onwards

SEM	Type of Course	Course / Paper Title (All theory papers)	Instruction hour per week	Total hours of Syllabus / Sem	Duration of Exam	Formative Assessment (Internal) Marks	Summative Assessment (Sem End) Marks	Total Marks	Credit
III	DSC 3.1	Microeconomics	3 hrs.	42	2 hrs.	40	60	100	03
	DSC 3.2.1	Mathematics for Economics	3 hrs.	42	2 hrs.	40	60	100	03
	DSC 3.2.2	OR Agriculture Economics							
	OE 3.3.1	Rural Economics	3 hrs.	42	2 hrs.	40	60	100	03
	OE 3.3.2	Economics of Insurance	3 hrs.	42	2 hrs.	40	60	100	03
	OE 3.3.3	Economics of Human Development	3 hrs.	42	2 hrs.	40	60	100	03
IV	DSC 4.1	Macroeconomics	3 hrs.	42	2 hrs.	40	60	100	03
	DSC 4.2.1	Statistics for Economics	3 hrs.	42	2 hrs.	40	60	100	03
	DSC 4.2.2	OR Monetary Economics							
	DSC 4.3.1	Karnataka Economy	3 hrs.	42	2 hrs.	40	60	100	03
	OE 4.3.2	Entrepreneurial Economics	3 hrs.	42	2 hrs.	40	60	100	03
	OE 4.3.2	Economics and Law	3 hrs.	42	2 hrs.	40	60	100	03
	OE 4.3.4	Economics of GST	3 hrs.	42	2 hrs.	40	60	100	03

Semester III

Course Title: Microeconomics			
Course Code:	DSC-3.1	No. of Credits	3
Contact hours	42 Hours	Duration of SEA/Exam	2 hours
Formative Assessment Marks	40	Summative Assessment Marks	60

Course Outcomes (COs): After successfully completing the course, the student will be able to:

CO1. Understand introductory economic concepts.

CO2. Recognize basic supply and demand analysis.

CO3. Recognize the structure and the role of costs in the economy.

CO4. Describe, using graphs, the various market models: perfect competition, monopoly, monopolistic competition, and oligopoly.

CO5. Explain how equilibrium is achieved in the various market models.

CO6. Identify problem areas in the economy, and possible solutions, using the analytical tools developed in the course.

Contents			42 Hrs.
Syllabus- Course 5: Title- Microeconomics			42 Hrs.
Unit 1	Basics of Microeconomics		14 hours
	Chapter 1	Some Concepts of Microeconomics Scarcity and Choice; Opportunity cost; Production possibility frontier; Price mechanism v/s state intervention Types of Goods (Free Goods, Economic Goods, Public and Private goods, Common Property Resources, Club goods).	6 hrs.
	Chapter 2	Consumption decision: Indifference curves – Meaning and Properties; budget constraint; Consumer's Equilibrium; Price, income and substitution effects; Derivation of Demand Curve from Indifference Curves; Revealed Preference Theory; Choice between leisure and income.	8 hrs.
Practicum:			

➤ Prepare assignment on Consumer's equilibrium through indifference curve analysis ➤ Seminar on Concepts of Micro Economics ➤ Conducting a consumer survey to understand their tastes and preferences			
Unit -2:	Production and Costs		14 hours
	Chapter 3	The Firms: Concept of firm and Industry; Production Function with Two variable inputs: Properties of Isoquant, isocost line and least cost combination of inputs; Production function with all variable inputs (Returns to Scale); Features of Cobb-Douglas Production Function	8 hrs.
	Chapter 4	Cost of Production: Cost function and estimation: Linear and Non-Linear (cubic and quadratic) and applications; Economies and Diseconomies of scale	6 hrs.
Practicum: ➤ Group Discussion on Economies and Diseconomies of scale ➤ Project work on cost functions and cost estimations			
Unit -3:	Price Determination of products and factors		14 hours
	Chapter 5	The Markets -I: Perfect Competition: Price determination of an industry under different time periods and equilibrium of firm under short run and long run; (some numerical exercises) Monopoly pricing and price discrimination; (some numerical exercises)	4 hrs
	Chapter 6	The Markets-II: Pricing under Monopolistic Competition; equilibrium of firm under product differentiation and selling costs; Oligopoly – Interdependence and price rigidity, Collusive (Cartels and Price leadership) and non-collusive oligopoly (Cournot model); Elements of Game theory (players, strategy, Payoff matrix)	5 hrs
	Chapter 7	The Inputs (Factors) Functional and Personal Income; Marginal Productivity Theory of Distribution; Modern theory of distribution; Concepts related to rent, wage, interest and profit.	5 hrs
Practicum: ➤ Conducting Market Survey to identify the nature and features of markets for different goods/services ➤ Understanding the distribution of national income as factor incomes			

Pedagogy: Classroom lectures, tutorials, Problem-solving exercise

Note: Strictly follow the Practicum

References	
1	Ahuja, H.L. (2008): <i>Principles of Microeconomics</i> , S. Chand and Co., New Delhi
2	Mankiw, N. Gregory (2020). <i>Principles of Economics</i> (Ninth ed.). Boston, MA.
3	Jhingan, M.L. (2016): <i>Microeconomics</i> , Vrinda Publications, New Delhi
4	Koutsoyianis, A (1979): <i>Modern Microeconomics</i> , London, Macmillan
5	Omkarnath, G. (2012: <i>Economics: A Primer for India</i> , Orient Blackswan, Hyderabad
6	Samuelson, Paul (2004): <i>Economics</i> , McGraw-Hill, New Delhi
7	https://www.core-econ.org/the-economy/book/text/0-3-contents.html

Semester III

Course Title Mathematics for Economics

Course Code:	DSC-3.2.1	No. of Credits	3
Contact hours	42 Hours	Duration of SEA/Exam	2 Hours
Formative Assessment Marks	40	Summative Assessment Marks	60

Course Outcomes (COs): After the successful completion of the course, the student will be able to: CO1. Perform basic operations in Sets and functions and Matrix algebra. CO2. Calculate limits, derivatives of Economic functions and identify the nature of the relationship. CO3. Calculate the maxima and minima of function	
Contents	42 Hrs
Unit–1: Preliminaries	12 Hrs
Chapter 1: Introduction to Mathematical Economics: Nature and scope of mathematical economics- Role of mathematics in economic theory	4
Chapter 2: Number system and Set theory: Types of Numbers: Natural Numbers, Real numbers, integers, Irrational Numbers, Complex Numbers. Concepts of sets- meaning –types- union of sets – interaction of sets.	4
Chapter 3: Functions: Meaning of function- Types of functions: Linear and Non-linear Functions; Quadratic, Polynomial, Logarithmic and Exponential functions-	4
Unit -2: Economic Functions, their Application and Matrices	14 Hrs
Chapter-4: Economic Functions: Demand Function, Supply function, Production function, Cost, Revenue and Profit function, Consumption function	4
Chapter-5: Applications of Functions: Graph of Economic Functions, Market equilibrium; Equilibrium price and Quantity, Impact of specific tax and subsidy on market equilibrium	5
Chapter-6: Matrices: Definition and Types of Matrices- Matrix Operations: Addition, Subtraction and Multiplication, Transpose of a Matrix, Determinants of Matrix- Cramer’s Rule	5

Unit -3: Differential Calculus and Its Applications	16 Hrs
Chapter -7: Limits: Limits of functions, differentiation, rules of differentiation.	4
Chapter -8: Derivatives of Economic functions: Derivation of Marginal functions from total function-Marginal Production, Marginal cost, Marginal Revenue, Marginal Profit.	6
Chapter -9: Applications of Derivatives and Higher order derivatives: Elasticity of Demand- Second order derivatives- Maxima and Minima of Economic function.	6

Pedagogy: Classroom lecture, tutorials, Problem solving exercise

References	
1	Chiang, A. C. and Wainwright, K., “Fundamental Methods of Mathematical Economics”, McGraw-Hill/Irwin, 4th Edition, 2005.
2	Sydsaeter, K and Hammond, P., Mathematics for Economic Analysis, Pearson Educational Asia, 4th Edition, 2002.
3	Allen R.G.D., (2015) Mathematical Analysis for Economists, Macmillan.
4	Bose D., (2003) An Introduction of Mathematical Economics, Himalaya Publishing House, Mumbai.
5	Dowling, E. T., “Introduction to Mathematical Economics”, McGraw-Hill, 2001.
6	Hoy, M., Livernois, J. McKenna, C, Rees, R. and Stengos, T., “Mathematics for Economics”, MIT Press, 3rd Edition, 2011
7	Sydsaeter, K and Hammond, P., Mathematics for Economic Analysis, Pearson Educational Asia, 4th Edition, 2002.
8	Veerachamy R (2005) Quantitative Methods for Economics, New Age International Publishers Private Ltd. New Delhi.
9	Yamane Taro, (2002) Mathematics for Economists -An Implementer Analysis, Phi Learning Publishers.
10	S. N. Yogish, Mathematical methods for Economists- Mangaldeep publications, Jaipur.

Semester III

Course Title Agriculture Economics			
Course Code:	DSC-3.2.2	No. of Credits	3
Contact hours	42 Hours	Duration of SEA/Exam	2 Hours
Formative Assessment Marks	40	Summative Assessment Marks	60

Course Outcomes (COs):

After completing the course, the student will be able to:

- CO1. Acquire knowledge of the role of agriculture in economic development
- CO2. Acquire the theoretical and application knowledge of agricultural growth and development
- CO3. To enable the students to understand the Strategy of Agricultural Development in India,
- CO4. To make the students aware of institutional and non-institutional sources of agricultural Finance

Contents	42 Hrs.
Unit-1: Agriculture and Economic Development	14 hrs.
Chapter 1: Introduction to Agricultural Economics - Definition and scope of agricultural economics - Need for special techniques of economic analysis to deal with unique problems of the agricultural economy - Seasonality, perishability, and heterogeneity of output - The Organisation of agricultural production – Role of Land, Labour, Capital, and entrepreneurship	5
Chapter 2: Agriculture in Economic Development - Role of Agriculture in Economic Development. - Diversification of agriculture: Agriculture and allied activities (fisheries, horticulture, floriculture). - Interdependence between agriculture and industry	4
Chapter 3: Structural changes and Agriculture in India - Traditional agriculture and its modernisation - Changes in the share of agriculture to G.D.P., reasons, and way forward - Changes in the percentage of employment generated by agriculture in the total workforce- reasons and way forward	5
Practicum:	

- Visit a few nearby agricultural farms, discussing with farmers about crops grown, productivity, farm practices and the problems the farmers are facing, and the solutions. Then writing an assignment - Group Discussions on the declining contribution of agriculture to G.D.P.	
Unit – 2 Theory of agricultural growth and development	12 Hrs
Chapter 4: Transformation of traditional agriculture - Schultz's transformation of traditional Agriculture - Mellor Model of agricultural development	2
Chapter 5: Dual economy models and other theories - Jorgenson's Model of Development of Dual Economy - Arthur Lewis's theory of Unlimited supplies of Labour - Fei-Ranis Model of Economic growth - Todaro Model of Rural-Urban Migration and Unemployment	6
Practicum: - Group Discussions on various Agricultural growth and development theories. - Debate on the relevance of the agricultural theories in the present agricultural situation in India	4
Unit -3: Strategy of Agricultural Development in India	16 Hrs
Chapter 6: Land Reforms and Policy - Resource Allocation and Capital Formation. - Institutional v/s Technological Factors. - Pre-Land Reform Agrarian Scenario, - Post-Independence Agrarian Reforms, Legislation, and Implementation - Abolition of Intermediaries: Tenancy Reforms, Ceiling Legislation Implementation - Role of Technological factors in Agricultural Growth: High Yielding Varieties of Seeds, Irrigation and Water, Fertilisers, Mechanisation - Economic Reforms and Agriculture, - W.T.O. and Indian Agriculture	4
Chapter 7: Agriculture Finance - Role, Importance and features of Agricultural Finance - Basic economic principles and Criteria involved in Finance, - Need for Agriculture credit. - Estimates of Rural Financial Requirements. - The extent of Agricultural Finance - Problems of Agricultural Finance and suggestions to improve Agricultural Finance - Sources of Agricultural Finance; Institutional and Non -Institutional Credit Financing through N.A.B.A.R.D., Co-operatives, Commercial Banks and RRBs. - Money Lenders; Role, Defects, Regulations, and Reasons for money lenders still one being one of the sources. - Financial Institutions and credit flow to the rural/priority sector - Micro-Financing and Role of M.F.I.'s, N.G.O.'s and S.H.G.'s.	6
Chapter 8: Agricultural Marketing - Definition and need for an efficient Marketing System - Nature of Demand for Farm Products.	6

• Structure of Agricultural Product Markets. • Functions of Marketing • Present System of Indian Agricultural Marketing; Problems of Indian Agricultural Marketing • Government Measures to improve Indian Agricultural Marketing	
Practicum 1. Write an assignment on the impact of land reforms in India 2. Discuss the maximum acres of agricultural land an individual can own in Karnataka vis-a-vis other states. 3. Quiz on the strategy of agricultural development in India	

Pedagogy: Classroom lectures, tutorials, Problem-solving exercises, field visit

Note: Strictly follow the Practicum

References	
1	Lekhi R K, Joginder Singh (2022), Agricultural Economics, Kalyani Publishers, New Delhi
2	Dantwala, M.L. et al. (1991), Indian Agricultural Development Since Independence, Oxford & IBH, New Delhi.
3	Government of India (1976), Report of the National Commission on Agriculture, New Delhi.
4	Government of India, Economic Survey (Annual), New Delhi.
5	Gulati, A. and T. Kelly (1999), Trade Liberalization and Indian Agriculture, Oxford University Press, New Delhi.
6	Reserve Bank of India, Report on Currency and Finance (Annual), Mumbai
7	Rudra, A. (1982), Indian Agricultural Economics: Myths and Reality, Allied Publishers, New Delhi

Semester III

Course Title Rural Economics			
Course Code:	OE-3.3.1	No. of Credits	3
Contact hours	42 Hours	Duration of SEA/Exam	2 Hours
Formative Assessment Marks	40	Summative Assessment Marks	60

Course Outcomes (COs): After the successful completion of the course, the student will be able to:

CO1. To Understand the basics of rural development,

CO2. To study the characteristics, problems, and programmes of rural redevelopmentCO3.

To study the trends and patterns of economic activities in rural areas

CO4. To study the role of infrastructural facilities and governance in rural development

CO5. To enable the students to know about the significance of rural enterprises and agricultural alliedactivities.

Contents	42 Hrs
Unit-1:	12 Hrs
Chapter:1 - Introduction to Rural Economy Meaning and Objectives of Rural economy Characteristics of Rural Economy Indicators of Rural Development Concepts of inclusive and sustainable development	4
Chapter:2 - Approaches to Rural Development Gandhian Model Community Development Approach, Minimum Needs Approach, Integrated Rural Development and Inclusive Growth Approach.	4

Chapter:3 - Poverty and Unemployment in Rural India Meaning and Measurement of Poverty Causes of Poverty Farm and Non-Farm Employment Measurement and Types of Employment Review of Poverty Alleviation and Employment Generation Programmes in India	4
Practicum: • Field visit to a nearby village and study the poverty situation • Field visit to the village and study the employment pattern Undertake an evaluation study on employment generation programmes and prepare an assignment.	
Unit -2:	14 Hrs
Chapter 4- Rural Enterprises Meaning and Importance, Classification of MSME Progress and Problems of MSME Khadi and Village Industries	5
Chapter 5: Rural Banking and Finance Credit Co-operative Societies Regional Rural Banks Role of NABARD Microfinance Institutions	4
Chapter-6: Rural Infrastructure Educational and Health Infrastructure Housing and Sanitation Drinking Water Supply Rural Transport and Communication Rural Electrification	5
Practicum: • Write an assignment on Rural Infrastructure • Write a report on rural industries	
Unit -3:	14 Hrs
Chapter 7- Rural Development Programmes Wage Employment Programmes Self-employment and Entrepreneurship Development Programmes Rural Housing Programmes Rural Sanitation Programmes	4

Chapter 8 - Rural Markets Meaning and Types of Rural Markets Defects and Government Measures for Removal of Defects in rural markets Co-operative Marketing Societies Meaning and Importance of Regulated Markets Digital Marketing(e-NAM)	5
Chapter 9 - Rural Governance Legislations powers, Functions, and sources of revenue of Panchayat Raj Institutions Role of NGOs in rural development People's participation in rural development	5
Practicum: • Group Discussion on Rural Governance • Interview Gram Panchayat members and prepare a brief note on their participation in rural development. • Undertake an evaluation study on rural development programmes and prepare an assignment.	

References	
1	Chambers, R. (1983): Rural Development: Putting the Last First, Longman, Harlow.
2	Dandekar, V.M. and N. Rath (1971): Poverty in India, GIPE, Pune.
3	Dantwala, M. L. (1973): Poverty in India: Then and Now, 1870-1970, Macmillan, Bombay.
4	Gupta. K .R. (Ed) (2003): Rural Development in India, Atlantic Publishers and Distributors, New Delhi.
5	Jain, Gopal Lal (1997): Rural Development, Mangal Deep Publications, Jaipur,
6	Singh, Katar (1986): Rural Development: Principles, Policies and Management, Sage Publications, New Delhi, (Second Edition).
7	Karalay, G. N. (2005): Integrated Approach to Rural Development: Policies, Programmes and Strategies, Concept Publishing Company, New Delhi.
8	Maheshwari, S. R. (1985): Rural Development in India, Sage, Publications New Delhi.
9	Satya Sundaram, I. (1997): Rural Development, Himalaya Publishing House, Delhi.
10	Mehta, Shiv R. (1984): Rural Development Policies and Programmes, Sage Publications, New Delhi.
11	Tyagi, B. P. (1998): Agricultural Economics and Rural Development, Jai Prakash Math and Co., Meerut.

Semester III

Course Title Economics of Insurance			
Course Code:	OE-3.3.2	No. of Credits	3
Contact hours	42 Hours	Duration of SEA/Exam	2 Hours
Formative Assessment Marks	40	Summative Assessment Marks	60

Course Outcomes (COs): After the successful completion of the course, the student will be able to:

CO1. Gain knowledge relating to the importance of insurance in the life of human beings.

CO2. Acquaint with the conceptual framework of Insurance

CO3. Understand the Fundamentals of Life and Health Insurance, functions of Life and Health Insurance

CO4. Gain Knowledge relating to Insurance Documentation and Insurance legislation

Contents	42 Hrs
Unit-1: Introduction to Economics of Insurance	14
Chapter:1 - Fundamentals of Economics of Insurance ➤ Definition of Insurance ➤ Scope of economic insurance ➤ Importance of insurance	4
Chapter:2 - The conceptual framework ➤ Brief history of insurance ➤ Perils and risks in insurance, Classification of risks hazards ➤ How insurance works ➤ Classes of insurance and assumptions	5
Chapter:3 - Type of Insurance ➤ Risk pooling and risk transfer in insurance ➤ Social vs private insurance ➤ Life vs non-life insurance	5
Unit -2: Insurance Planning	14
Chapter 4- Types of Insurance Planning ➤ Wealth accumulation plan lifecycle planning ➤ Planning for wealth accumulation ➤ Tax advantage and tax non-advantage	4

Chapter-5: Retirement Planning ➤ Essential of individual retirement planning ➤ Investing pension plan, basic principles of pension plans ➤ Pension plans in India	5
Chapter-6: General Insurance Structure ➤ General Insurance, concept of General Insurance ➤ Types of General Insurance, Marine Insurance, Motors Insurance, Agricultural Insurance ➤ Fire Insurance, Personal Accident Insurance	5
Unit -3: personal insurance / Health Insurance	14 Hrs.
Chapter 7- Essential of Life and Health Insurance ➤ Fundamentals of Life and Health Insurance, functions of Life and Health Insurance ➤ Health Insurance and Economic Development, Insurance and Farmer Security	3
Chapter 8 - Insurance Documentation ➤ Health Insurance products, Health Insurance underwriting ➤ Health Insurance claims	3
Chapter 9 - Insurance Legislation ➤ The insurance act, 1938- Registration- Accounts and Returns ➤ Investments -Limitation on expense of Management ➤ Regulation of Insurance, Insurance regulation in India, role and need of regulation, history of insurance regulation in India ➤ Insurance Reforms Development Authority (IRDA), performance of IRDA ➤ Indian Insurance in global platform, future potential in Indian Insurance Business	8

Pedagogy: Classroom lectures, tutorials, Problem-solving exercise

References	
1	Bailey, R. (Ed.) (1999), Underwriting in Life and Insurance, LOMA, Atlanta, Ga.
2	Bhole, L.M. (1990), The Indian Financial System, Tata McGraw Hill, New Delhi.
3	Bickelhaupt, D.L. (1992), General Insurance, Irwin Inc., Burr Ridge, Ill.
4	Black, K. Jr. and H.D. Skipper Jr. (2000), Life and Health Insurance, Prentice Hall, Upper Saddle River, New Jersey.
5	Finsinger, J. and M.V. Pauly (Eds.) (1986), The Economics of Insurance Regulation : A Cross National Study, Macmillan, London.
6	Graves, E.E. and L. Hayes (Eds.) (1994), McGill's Life Insurance, The American College, Bryn Mawr, Pa.
7	Head, G.L. and S. Horn II (1991), Essentials of Risk Management, Volume I, Insurance Institute of America, Malvern, Pa.
8	Skipper, Jr., H.D. (Ed.) (1998), International Risk and Insurance : An Environmental Managerial Approach, Irwin McGraw Hill, Boston.
9	Tacchino, K.B. and D.A. Little (1993), Planning for Retirement Needs, The American College, Bryn Mawr, Pa.

Semester III

Course Title Economics of Human Development			
Course Code:	OE-3.3.3	No. of Credits	3
Contact hours	42 Hours	Duration of SEA/Exam	2 hours
Formative Assessment Marks	40	Summative Assessment Marks	60

Course Outcomes (COs): After the successful completion of the course, the student will be able to: CO1. Differentiate between Human Resource Development (HRD), Human Development (HD) and HRM CO2. Understand the concepts of Human Security, describe dimensions of human development, and appreciate various practices and policies of human development, HDI and India.	
Contents	42 Hrs.
Unit-1: Introduction on to Human Development	12 Hrs.
Chapter 1: Human Growth and Human Development - Basic Needs Approach - Quality of Life Approach - Capability Approach Chapter 2: Human Resource Development (HRD), Human Resource Management (HRM). Chapter 3: Human Development: meaning and definition, importance, and objectives.	
Unit -2: Human Security, SDGs and Approaches to Human Development.	12Hrs
Chapter 4: Human Security: Economic security - Food security - Health security - Environmental security - Personal security - Community security - Political security. Chapter 5: Sustainable Development Goals (SDGs): Understanding the SDGs - Linkages between human development and the SDGs. Chapter 6: Indian Perspectives and Experience with Human Development: Approach to human development in national plans	
Unit -3: Dimensions and Measurement of Human Development	18 Hrs.
Chapter 7: Dimensions of Human Development: Empowerment - meaning and usage, Cooperation - definition and brief introduction, Equity - concept and usage, Sustainability – meaning and importance, Participation - concept, different forms of participation, Human development & Productivity - factors determining productivity.	

Chapter 8: Measuring Human Development: Need for indices - limitations of per capita GDP as an indicator. Earlier indices (meaning): - Physical Quality of Life Index (PQLI), - Disability Adjusted Life Years (DALYs), - Social Capability Index. Human Development Index - HDI as compared to per capita GDP - Method of computing HDI - Critique of HDI. Other indices (meaning): Human Poverty Index (HPI)- Gender-related Development Index (GDI) - Gender Empowerment Measure (GEM).

Chapter 9: Selected Issues in Human Development: Impact of Globalisation on Human Development - Trade and Human Development. - Technology and Human Development

Pedagogy: Classroom lectures, tutorials, Problem-solving exercise

References	
1	Chelliah, Raja J. and R. Sudarshan (eds.), 1999, Income Poverty and Beyond: Human Development in India, UNDP, Social Science Press, New Delhi
2	Dev, S. Mahendra, Piush Antony, V. Gayathri, and R.P. Mangain, 2001, Social and Economic Security in India, Institute for Human Development, New Delhi
3	Government of India, National Human Development Report 2002, Planning Commission, New Delhi
4	Jaya Gopaki, R: Human Resource Development: Conceptual analysis and Strategies, Sterling Publishing Pvt. Ltd., New Delhi
5	Naresh Gupta (2019), Human Development in India Emerald Publishers.
6	Nadler, Leonard (2004). Corporate Human Resource Development, Van Nostrand Reinhold, ASTD, New York
7	Padmanabhan Nair (2007) Human Development Index: An Introduction (Economy Series), ICFAI University Press
9	Rao, T.V and Pareek, Udai (2005) Designing and Managing Human Resource Systems, Oxford IBH Pub. Pvt.Ltd., New Delhi.
10	Rao, T.V: Readings in HRD, Oxford IBH Pub. Pvt. Ltd., New Delhi,
11	Viramani, B.R and Seth, Parmila: Evaluating Management Development, Vision Books, New Delhi.
12	Rao, T.V. (et.al)(2003) HRD in the New Economic Environment, Tata McGraw-Hill Pub.Pvt, Ltd., New Delhi ,.
13	Rao, T.V: Human Resource Development, Sage Publications, New Delhi.
14	Viramani, B.R and Rao, Kala: Economic Restructuring, Technology Transfer and Human Resource Development, Response Books, New Delhi

15	United Nations Development Programme (2005); ‘Course Curriculum on Human Development-An Outline’, New Delhi
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Websites:	
1	https://www.undp.org/sustainable-development-goals?c_src=CENTRAL&c_src2=GSR
2	https://hdr.undp.org/en/2020-report
3	https://www.un.org/millenniumgoals/
4	https://www.undp.org/india/publications/national-human-development-report-india
5	https://www.sdgfund.org/mdgs-sdgs

Journals	
1	Indian Journal of Training and Development
2	HRD Newsletter (NHRD Network)
3	American Journal of Training and Development

Semester IV

Course Title Macroeconomics			
Course Code:	DSC-4.1	No. of Credits	3
Contact hours	42 Hours	Duration of SEA/Exam	2 Hours
Formative Assessment Marks	40	Summative Assessment Marks	60

Course Outcomes (COs): After the successful completion of the course, the student will be able to: CO1: Acquire knowledge on the circular flow of income in two sectors, three and four-sector model CO2: Understand and learn the calculation of national income CO 3: Appreciate the classical and Keynesian theory of Employment CO 4: Understand the concepts of multiplier and accelerator and learning the simple Calculation on the working of Multiplier and Accelerator CO 5: Acquire knowledge of the determinants of the Investment function			
Contents			42 Hrs.
Unit 1	Introduction to Macro Economics and National Income Accounting		14 hours
	Chapter 1	Introduction to Macro Economics • Meaning, • Importance and limitation • Meaning of stock and flows	3 hrs
	Chapter 2	Circular Flow of Income • The importance of the circular flow model • Two sectors Model, • Three sectors Model • Four sectors Model	5 hrs.
	Chapter 3	National Income Accounting • National income accounting: meaning and definition- Accounting Concepts, importance, • Methods and difficulties in measuring national income- ways to increase national income- empirical problems – calculation of national income. • GNP and Quality of life- • Green accounting.	6 hrs
Practicum: a) Assignment on the Circular flow of Income in two, three and four sector model b) Work out the numerical exercise on the calculation of National Income			

Unit 2	Theory of Income Determination		20 hours
	Chapter 4	The Classical theory of Employment • Features; and Assumptions • Say's Law; • Pigou's wage-price flexibility • Classical dichotomy and neutrality of money • Critical Evaluation	6hrs
	Chapter 5	Keynesian Framework • Some Basic concepts: The idea of equilibrium and identity ex-ante and ex-post concepts. • Aggregate Demand and its components • Aggregate Supply: Meaning and graphical explanation; • Effective demand	4hrs
	Chapter 6	Keynes Consumption function: • Consumption Function: Algebraic and Graphical explanation; • Marginal and Average propensity to consume • Determinants of consumption function	5hrs
	Chapter 7	Keynes's Investment function; • Investment function: • Autonomous and Induced • Determinants of Investment function: rate of interest and the marginal efficiency of capital (MEC) • Factors influencing MEC • MEI and Capital Accumulation,	5hrs
Practicum: • Graphical and Algebraic explanation of the psychological law of consumption • Seminar on the effective demand • Leaning the simple numerical calculation of MEC taking a hypothetical example			
Unit 3	Concepts of Multiplier and Accelerator		8 hrs
	Chapter 8	Investment Multiplier • Investment Multiplier: Meaning, • Assumptions • The process of working • leakages • Criticism	4 hrs
	Chapter 9	Accelerator and Super Multiplier • Accelerator: Meaning • Assumptions • The process of working • Limitations and Criticisms • Interaction of Multiplier and Accelerator	4 hrs

Practicum:

- Learning the simple numerical calculation of the working of the Investment Multiplier
- Learning the simple numerical calculation of the working of the Accelerator
- Group discussion on the interaction of Multiplier and Accelerator and its application.

References

1. Ahuja H.L. (2019), Macro Economics Theory and Policy, S. Chand and Company.
2. Branson William H. (1997), Macro Economics Theory and Policy, Harper Collins India Pvt. Ltd.
3. Dernburg and McDougal (1985), Macro Economics, McGraw Hill Education, New York
4. Gupta G.S. (2008), Macro Economics: Theory and Applications, Tata McGraw Hill Education
5. Lindauer John (2012) Macro Economics, 4th Ed Universe Inc. Bloomington, USA
6. Jingham M.L. Macro-Economic Theory, Vinda Publication Pvt. Ltd. New Delhi
7. Samuelsson Paul A. Nordhaus W.D. (2010), Macro Economics, McGraw Hill Publication
8. Seth M.L. (2017), Macro Economics, Laxminarayan Agarwal Publication

Semester IV

Course Title Statistics for Economics			
Course Code:	DSC-4.2.1	No. of Credits	3
Contact hours	42 Hours	Duration of SEA/Exam	2 Hours
Formative Assessment Marks	40	Summative Assessment Marks	60

Course Outcomes (COs): After the successful completion of the course, the student will be able to: CO1. Understand the nature of Data and their presentation CO2. Calculate Descriptive statistics like measures of central tendency and dispersion CO3. Apply statistical techniques like correlation and regression in Economic analysis	
Contents	42 Hrs
Unit-1: Preliminaries	12 Hrs
Chapter:1 Introduction to Statistics: Meaning and Importance of Statistics, Functions of Statistics, Types of Statistics: Descriptive Statistics and Inferential Statistics-Variables; Qualitative Variable and Quantitative Variable	4
Chapter 2: Datatypes, Sources and Collection of Data: Qualitative and Quantitative Data - Cross Section Data, Time Series Data and Panel Data - Primary and Secondary sources of Data – Methods of Collecting Primary Data	4
Chapter-3: Tabulation and Presentation of Data: Classification and tabulation of data - Frequency distributions – Continuous and Discrete frequency distribution. Graphical presentation- Histogram- frequency polygon - Ogive Curves -Bar Diagram, Pie Chart	4
Unit -2: Measures of Central Tendency and Dispersion	14 Hrs
Chapter-4: Arithmetic Average: Definition of Central Tendency, Types of Central Tendency: Arithmetic Mean: Meaning and Properties of Arithmetic Mean – Computation of Arithmetic Mean	5
Chapter-5: Positional Averages-Median and Mode: Definition and importance of Median- Calculation of Median- Definition and importance of Mode - Calculation of Mode.	4

Chapter-6: Dispersion: Meaning of Dispersion- Measures of Dispersion- Range- Quartile deviation- mean deviation - Standard deviation - Coefficient of Variation and Their Computation	5
Unit -3: Correlation, Regression and Time Series Analysis	16 Hrs
Chapter-7: Correlation: Meaning of Correlation - Types of correlation - Methods of measuring Correlation- Karl Pearson's correlation coefficients	5
Chapter-8: Regression: Meaning and Importance of Regression - Regression Equation - Estimation of regression equation - Applications of regression equation in Economics	6
Chapter-9: Time Series Analysis: Definition of Time Series – Components of Time Series – Estimation and Forecasting of Trend	5

Pedagogy: Classroom lecture, tutorials, Problem solving exercise

References	
1	Gupta S P. (2012) Statistical Methods, S. Chand and Company, New Delhi.
2	S. C. Gupta, (New edition) Fundamentals of Statistics, Himalaya publishing house, Mumbai.
3	S. N. Yogish, Statistical methods for Economists- Mangaldeep publications, Jaipur.
4	Anderson, Sweeney & Williams, (2002) Statistics for Business & Economics, Thomson South-Western, Bangalore.
5	Daniel and Terrel: Business Statistics for Management and Economics; oaghton Mifflin Co., Boston, Toronts, 7th Edition, 1995, PP 1 to 972 + 6 Appendices
6	Medhi, J., Statistical Methods: An Introductory Text, Wiley, 1992
7	Morris H. Degroot and Mark J. Schervish, "Probability and Statistics", 4th edition, 2012.
8	Teresa Bradley, Essential Statistics for Economics, Business and Management, John Willey Publisher, 2007

Semester IV

Course Title	Monetary Economics		
Course Code:	DSC-4.2.2	No. of Credits	3
Contact hours	42 Hours	Duration of SEA/Exam	2 Hours
Formative Assessment Marks	40	Summative Assessment Marks	60

Course Outcomes (COs): After the successful completion of the course, the student will be able to: CO1: Acquire knowledge of the supply and demand of Money CO2: Understand and interest in determination theories. CO 3: Appreciate the Implications for Monetary Management CO 4: Understand the relationship between inflation and unemployment CO 5: Acquire knowledge of the working of business cycles			
Contents			42 Hrs.
Unit 1	Money and the Economy		14 Hrs.
	Chapter 1	Money Supply: • Definitions of Money supply; • Money supply and Value of Money; • Classical and Keynesian views on the supply of money, • Determinants of money supply, • High-powered money, • money multiplier • The reserve ratio and deposit multiplier	6 hrs.
	Chapter 2	Definition of money supply in India • Money supply measures by RBI ◦ M1, M2, M3, M4 • Liquidity Aggregates – L1, L2, and L3 • Trends of Money Supply in India	3 hrs.
	Chapter 3	Demand for Money • Meaning and Importance • The Classical Approach, • The Keynesian Approach, • Liquidity preference, • The Post- Keynesian Approaches • Friedman’s Theory of the Demand for Money	5 hrs.

Practicum: • Work out the numerical exercise on the working of the money multiplier • Assignment on Classical and Keynesian views on the Supply of money			
Unit 2	Module: Interest Rate theories and Interest Rates		12 hours
	Chapter 4	Theories of Interest Rate determination 1. Classical Theory of Interest 2. Neo-Classical or the loanable fund's theory of interest, 3. Keynes's liquidity preference theory of interest 4. Modern theories of interest; IS-LM Curve Approach	7 hrs.
	Chapter 5	Interest Rates • Interest rate and investment, Income and output • Heterogeneity of Interest Rate Determination: Administered Interest Rates and Market Determined Interest Rates • Interest rates and Demand for Money	5 hrs.
Practicum: • Visit a commercial bank or cooperative bank and learn the interest rates for various loans and write an assignment • Write the assignment on interest determination theories.			
Unit 3	Inflation, Monetary Policy and Business Cycle		16 Hrs.
	Chapter 6	Inflation • Definitions of Inflation, • causes of Inflation, • Types of Inflation-demand push inflation and cost-push inflation; inflationary gap; • Effects of Inflation, • Measures to control Inflation • Relationship between inflation and unemployment- The Philips curve-short and long run	6 hrs.
	Chapter 7	Monetary policy • Monetary policy: Meaning, objectives • Measures of Monetary policy • The Time Lags in the Monetary Policy • The efficiency of Monetary Policy • Implications for Monetary Management. • Limitations of Monetary Policy • Monetary policy in India and control of Inflation	6 hrs.
	Chapter 8	Business Cycles • Meaning, • Types of the business cycle, • Features of the business cycle • Phases of the businesscycle; • Control of Business Cycles.	4 hrs.

Practicum: • Visit the market for four successive weeks on scheduled dates and see the change in the select food items and write an assignment. • Derive the graphical model showing the relationship between unemployment and inflation using the short-run Phillips curve and the long-run Phillips curve			
References 1. Crowther Geoffrey (1940), An Outline of Money, Thomas Nelson and sons Ltd. London 2. Dernburg and McDougal (1985), Macro Economics, McGraw Hill Education, New York 3. Gupta S.B. (2010), Monetary Economics, S. Chand and Company. 4. Hanson Alvin H. (1949), Monetary Theory and Policy, McGraw Hill Publication 5. Hanson J.L. (1970), Monetary Theory and Practice, McDonald's and Evans Ltd. London 6. Schumpeter J.A. (1939), Business Cycles, McGraw Hill Publication 7. Seth M.L. (2017), Macro Economics, Laxminarayan Agarwal Publication 8. Vaish M.C. (2009). Monetary Policy, Vikas Publishing House New Delhi			

Semester IV

Course Title	Karnataka Economy		
Course Code:	OE 4.3.1	No. of Credits	3
Contact hours	42 Hours	Duration of SEA/Exam	2 Hours
Formative Assessment Marks	40	Summative Assessment Marks	60

Course Outcomes (COs): After the successful completion of the course, the student will be able to: CO1. Understand the nature of economic growth and problems of Karnataka state. CO2. Explain the process of structural growth in Karnataka's Economy CO3. Evaluate the policies and programmes undertaken by the Govt. of Karnataka for bringing about socio-economic development	
Contents	42 Hrs
Unit-1: Karnataka Economy – An overview	12 Hrs
Chapter:1 Characteristics of Karnataka Economy ○ Features of Karnataka Economy ○ Trends and sectoral distribution of State Domestic Product and Per Capita Income ○ Measures to redress regional imbalances – Dr. Nanjundappa Committee Report, Article 371J	5
Chapter 2: Human Resources ○ Human Resources: importance, Size and Health indicators ○ Human Development Index ○ Poverty and Unemployment– Eradication Programmes	4
Chapter 3: Natural Resources Management ○ Natural Resources: Importance and volume of different natural resources ○ Karnataka Environmental Policy	3
Practicum: conduct a field visit to Forest/Reservoir/Mining and prepare the report	
Unit -2: Agriculture, Rural Development, and Industries in Karnataka	18 Hrs
Chapter-4: Agriculture ○ Problems in Agriculture ○ Land Reforms	7

○ Cropping Pattern ○ Irrigation: importance, important irrigation projects and watershed development projects. ○ Farmers Suicide – Causes and Solutions	
Chapter 5: Rural Development ○ Public Distribution System ○ Rural Development Programmes (brief) ○ Government Schemes for Rural Women	4
Chapter 6: Industries in Karnataka ○ Major Industries in Karnataka - Problems and Prospects ○ MSMEs - Problems and Measures ○ IT Industries in Karnataka ○ Industrial Finance in Karnataka ○ Industrial Policy of Karnataka	7
Practicum: visit industrial units in the local area and prepare the report/Trace-out the impact of Prof. D. M. Nanjundappa Committee report	
Unit -3: Infrastructure and Finance in Karnataka	12 Hrs
Chapter 7: Economic Infrastructure ○ Transportation: Road, Rail, Water and Air Transport ○ Information and Communication Technology Facilities	3
Chapter 8: Social Infrastructure ○ Drinking Water ○ Housing and Sanitation ○ Health and Education ○ Rural Electrification	4
Chapter-9: State Finance ○ Sources of Revenue: Direct and Indirect Taxes ○ Impact of GST on Karnataka economy ○ State Expenditure ○ State Finance Commission ○ Current State Budget (Brief)	5
Practicum: Discussion on State budget	

Pedagogy

Note: Strictly follow the Practicum

References	
1	Government of Karnataka, Economic Survey [Various Issues]
2	Planning Department, Annual Publication, Government of Karnataka.
3	Karnataka at Glance, Annual Publication Government of Karnataka.
4	Madaiah M & Ramapriya. Karnataka Economy Growth: Issues and Development, Himalaya Pub., House, NewDelhi.
5	Adul Aziz and K.G. Vasanti. (Eds) Karnataka Economy.
6	Government District Development Reports
7	Hanumantha Rao. Regional Disparities and Development in Karnataka.
11	Puttaswamiah K. Karnataka Economy, Two Volume

Semester IV

Course Title	Entrepreneurial Economics		
Course Code:	OE 4.3.2	No. of Credits	3
Contact hours	42 Hours	Duration of SEA/Exam	2 Hours
Formative Assessment Marks	40	Summative Assessment Marks	60

Course Outcomes (COs): After the successful completion of the course, the student will be able to: CO1. Start own business as Entrepreneur CO2. Enabling the students to find career opportunities in business. CO3. To enable the students to gain knowledge and skills needed to run a business successfully.	
Contents	42 Hrs
Unit-1: Entrepreneur and Entrepreneurship	12 Hrs
Chapter 1: Entrepreneur and Entrepreneurship – Meaning, Definitions, Evolution, types- Characteristics, qualities, functions of entrepreneur- Distinction between entrepreneur and manager, Distinction between entrepreneur and intrapreneur, Chapter 2: Role and importance of Entrepreneurship in economic development: Role and importance- Factors influencing entrepreneurship’- Psychological, social, Economic and Environmental. Chapter 3: New generations of entrepreneurship viz. social, Health, Tourism and Women entrepreneurship; Barriers to entrepreneurship.	
Unit -2: Launching Entrepreneurial Ventures	18 Hrs
Chapter 4: Generation of ideas: Methods and process - sources of ideas - screening process- Assessing Opportunities-Challenges, pitfalls and critical factors of new venture; Chapter 5: Business Plan- New Ventures: Steps involved in setting up a Business – identifying, selecting a Good Business opportunity, Market Survey and Research, Techno-Economic Feasibility Assessment. Chapter 6: Role of Innovation & Creativity: Innovation- Meaning and importance of innovation; Types of innovation; Sources of innovation; Conditions for effective innovation at Organization level; Chapter 7: Creativity: Concept and process of creativity; role and importance of creativity and mental blocks to creativity; branding, trademarks, patents, copyrights, and registered design protection-Methods of protecting innovation and creativity.	

Unit -3: Business and Entrepreneurial development	12 Hrs
Chapter 8: Entrepreneur Assistance: Assistance to an entrepreneur-Industrial Park (Meaning, features, & examples)-Special Economic Zone (Meaning, features & examples)-Financial assistance by different agencies-License, Environmental Clearance, e-tender process, Excise exemptions and concession, Exemption from income tax -Quality Standards with special reference to ISO. Chapter 9: Business and Entrepreneurial development - Determining and acquiring required resources (Financial, Physical and Human): Search for entrepreneurial capital- Debt vs. Equity; Venture Capital Market; Angel Financing and Alternative sources of finance for Entrepreneurs. Entrepreneurship development programme (EDP) in India– Objectives, Phases, and inputs of EDP; - Government initiatives for entrepreneurship – Make in India, Start-up India, MUDRA etc.	

Pedagogy: Classroom lectures, tutorials, Problem-solving exercise

References	
1	Donald F Kuratko, “Entrepreneurship – Theory, Process and Practice”, 9 th Edition, Cengage Learning, 2014.
2	Khanka. S.S., “Entrepreneurial Development” S.Chand & Co. Ltd., Ram Nagar, New Delhi, 2013.
3	Kuratko and Rao, Entrepreneurship: A South Asian Perspective; Ferrell, Fraedrich, Farrell, Business Ethics, Cengage Learning
4	Entrepreneurship, R. Saibaba, Kalyani Publishers, New Delhi.
5	Entrepreneurship Development and Business Ethics, Sanjeet Sharma – V.K. Global Pvt. Ltd., New Delhi
6	SS Khanka, Entrepreneurial Development, S. Chand & Co, Delhi.
7	Desai, Vasant. Dynamics of Entrepreneurial Development and Management. Mumbai, Himalaya Publishing House
8	Plsek, Paul E. Creativity, Innovation and Quality (Eastern Economic Edition), New Delhi:Prentice-Hall of India.
9	Singh, Nagendra P. Emerging Trends in Entrepreneurship Development. New Delhi: ASEED.
10	Entrepreneurship Development and Business Ethics - M K Nabi, K C Rout, Vrinda Publications (P) Ltd
11	Robert Hisrich and Michael Peters, Entrepreneurship, Tata Mc Graw– Hill Vasant Desai, Entrepreneurship
12	Marc J Dollinger, Entrepreneurship – Strategies and Resources, Pearson Education
13	Venkateshwara Rao and Udai Pareek,(Eds)Developing Entrepreneurship-A Handbook
14	Ravi J. Mathai, Rural Entrepreneurship A Framework in Development Entrepreneurship –Ahandbook

Semester IV

Course Title	Economics and Law		
Course Code:	OE 4.3.3	No. of Credits	3
Contact hours	42 Hours	Duration of SEA/Exam	2 Hours
Formative Assessment Marks	40	Summative Assessment Marks	60

Course Outcomes (COs): After the successful completion of the course, the student will be able to:

- CO1. Comprehend the basic economic issues affecting the economy along with the related legal provisions
- CO2. Acquire knowledge on the basic provisions of law relating to consumer activities, business organizations, environment
- CO3. To appreciate the understanding the law framework in order to frame the economics model closer to reality.
- CO4. To enable the students to understand the consequences of legal rules, primarily as an exercise in applied microeconomics, macroeconomics, industrial and international economics.

Contents	42 Hrs
Unit-1: Economic analysis of law	14 Hrs
Chapter 1: Introduction to legal reasoning - Efficiency. - Markets and efficiency. - Market failure. - Coase theorem and related ideas,	5
Chapter 2: welfare economics - Compensation principles. - Social welfare function. - Maximization problem;	4

Chapter 3: Economic Reasoning - Nature of economic reasoning. - Economic approach to law - History - Criticism.	5
Practicum: - Group Discussions on Economic reasoning - Assignment on Coase theorem and related issues	
Unit -2: An Introduction to Law and Legal Institutions	12 Hrs
Chapter 4: Law - Definition - Territorial Nature of Law - Kinds of Law - General Law and Special Law - Kinds of Special Law	4
Chapter 5: Civil law and the and the Common Law Traditions - The institutions of the federal and State Court systems; - The nature of legal dispute, - How legal rules evolve.	4
Practicum: - Group Discussions on Civil law and the and the Common Law Traditions - Assignment on the different kinds of Law	
Unit -3: Economic Laws	16 Hrs
Chapter 6: Law Relating to Consumer Activities - Bargaining theory. - Economic theory of contract. - Defining tort law, - Economics of tort liability. - Definition of Consumer	5

• Consumer protection; The Consumer Protection Act, 2019 • Consumer courts.	
Chapter 7: Law of Business Organizations • Structure of firm — Kinds, Corporations, • Capital, Shares, Debentures, Insiders' trading, • RBI, IRDA, MRTP, Role of SEBI,	5
Chapter 8: Macroeconomics and Law • Inequality; Contract theory of Distributive justice • Economic and social costs of poverty • Wealth distribution by Liability Rules • Taxation and efficiency • National and global environmental problems and international environmental agreements — their legal and economic implications	6
Practicum 1. Hold the moot court in the classroom and let there be a discussion consisting of at least two or more different views on National and Global environment problems and acts 2. Discuss the case studies on the Economic and social costs of poverty and consumer court judgements protecting the consumers	

Pedagogy: Classroom lecture, tutorials, Problem solving exercise

Note: Strictly follow the Practicum

References	
1	Bouckaert, B. and G. De Geest (Ed.) (1999), Encyclopaedia of Law and Economics, (Volume I to V), Edward Elgar Publishing Ltd., U.K.
2	Cooter, R.D. and T.S. Ulen, (2000), Law and Economics, (3rd Edition), Addison Wesley, New York.
3	Dan-Schmidt, K.G. and T.S. Ulen (Ed.) (2000), Law and Economic Anthology, Addison Wesley, New York.
4	Newman, P. (Ed.) (1998), The New Palgrave Dictionary of Economics and Law, Stockton Press, New York.
5	Oliver, J.M. (1979), Law and Economics, George Allen and Unwin, London.
6	Posner, R.A. (1998), Economic Analysis of Law, (5th Edition), Little Brown, Boston.
7	Posner, R.A. and F. Parisi (Eds.) (1997), Law and Economics, Edward Elgar Publishing Ltd., U.K.
8	Massey, I.P. (1995), Administrative Law, Eastern Book Company, Lucknow.
9	Indian Law Institute, Annual Survey of Indian Law, Indian Law Institute, New Delhi.

Semester IV

Course Title Economics of GST

Course Code:	OE 4.3.4	No. of Credits	3
Contact hours	42 Hours	Duration of SEA/Exam	2 Hours
Formative Assessment Marks	40	Summative Assessment Marks	60

Course Outcomes (COs): After the successful completion of the course, the student will be able to:

- CO1. Acquire knowledge on indirect taxes with special reference to GST
- CO2. Acquire the theoretical and application knowledge of GST and its Evolution in India
- CO3. To enable the students to understand the GST Law, ITC, Valuation of supply and returns
- CO4. Simple calculation of GST and Input Tax Credit, Valuation of Supply (Numerical on valuation and calculation of tax)

Contents	42 Hrs
Unit–1: Introduction to Economics of GST	14 Hrs
Chapter 1: Indirect taxes before GST - Indirect Taxes-Meaning, Types with examples - Constitutional framework of Indirect Taxes before GST (Taxation Powers of Union & State Government) - Concept of VAT: Meaning, Variants and Methods;	5
Chapter 2: Reforms in Indirect Taxes - Major Defects in the structure of Indirect Taxes before GST; Need for Tax reforms - Kelkar committee on Tax Reforms	4
Chapter 3: Introduction to GST - Rationale for GST; - Constitution [101st Amendment] Act, 2016; - GST- Meaning, Overview of GST - Taxes subsumed under GST - Territorial Jurisdiction of GST	5

- Multiple rates of GST - Recent reforms in GST	
Practicum: 1. Group Discussions on Indirect Taxes defects prior to GST 2. Assignment on Types of Indirect Taxes prior to GST and After the introduction of GST	
Unit – 2 Fundamentals of GST	12 Hrs
Chapter 4: GST Structure in India, - GST: Advantages and Disadvantages - One Nation-One Tax, - Structure of GST; - Features of Single and Dual GST Model	4
Chapter 5: Dual GST Mode and GST Council - Dual GST Mode in India: 1 SGST, CGST, UTGST & IGST); - Goods and Services Tax Network [GSTN], - GST Council; Creation, Members, Decisions, Compensation to states. - GST Network, - Registration,	4
Practicum: 1. Group Discussions on advantages and disadvantages of GST 2. Hold the moot of GST Council in the class room and decide the different slabs of GST	4
Unit -3: Taxes and Duties	16 Hrs
Chapter 6: Transactions and taxes covered and not covered - Transactions and taxes covered under GST - Taxes and duties outside the purview of GST - Tax structure Computation - Administration of Tax on items containing alcohol, petroleum products, tobacco products - Taxation on services	4

Chapter 7: Levy and Collection of Tax • Taxable event- “Supply” of Goods and Services • Place of Supply: Within state, Interstate Levy and Collection • Import and Export; Time of supply • Valuation for GST- Valuation rules, • Taxability of reimbursement of expenses; Exemption from GST: Small supplies and Composition Scheme Classification of Goods and Services: Composite and Mixed Supplies.	6
Chapter 8: Input Tax Credit • Eligible and Ineligible Input Tax Credit • Apportionments of Credit and Blocked Credits • Tax Credit in respect of Capital Goods • Recovery of Excess Tax Credit • Availability of Tax Credit in special circumstances • Transfer of Input Credit (Input Service Distribution) • Payment of Taxes; Refund; Doctrine of unjust enrichment	6
Practicum 1. Simple illustrations on the calculation of GST and Input Tax Credit, 2. Valuation of Supply (Numerical on valuation and calculation of tax) 3. Simple calculation Adjustment of an Input tax credit against output CGST, SGST, IGST.	

Pedagogy: Classroom lectures, tutorials, Problem-solving exercise

Note: Strictly follow the Practicum

References	
1	The Central Goods and Services Tax, 2017
2	The Integrated Goods and Services Tax, 2017
3	The Union Territory Goods and Services Tax, 2017
4	The Goods and Services Tax (Compensation to States), 2017
5	The Constitution (One hundred and First Amendment) Act, 2016
6	Gupta, S.S. , <i>GST- How to meet your obligations (April 2017)</i> , Taxmann Publications
7	Datey, V.S. (2019) . <i>Indirect Taxation</i> . New Delhi <i>Vastu and Sevakar Vidhan</i> by Government of India
8	Mehrotra, H.C. & Goyal, S.P.(2019), <i>Indirect Taxes</i> , Agra: Bhawan Publications.

BSC Economics III and IV Semester Syllabus
From Academic year 2022-23 onwards

(As per NEP 2020)

B SC Honors Economics Syllabus – 2022-23 onwards

SEM	Type of Course	Course / Paper Title (All theory papers)	Instruction hour per week	Total hours of Syllabus / Sem	Duration of Exam	Formative Assessment (Internal) Marks	Summative Assessment (Sem End) Marks	Total Marks	Credit
III	DSC 3.1	Factor pricing and Welfare Economics	3 hrs	42	2 hrs	40	60	100	03
	DSC 3.2	Basic Econometrics	3 hrs	42	2 hrs	40	60	100	03
	OE 3.3.1	Rural Economics	3 hrs	42	2 hrs	40	60	100	03
	OE 3.3.2	Economics of Insurance	3 hrs	42	2 hrs	40	60	100	03
	OE 3.3.3	Economics of Human Development	3 hrs	42	2 hrs	40	60	100	03
IV	DSC 4.1	Monetary Economics	3 hrs	42	2 hrs	40	60	100	03
	DSC 4.2	Time Series Econometrics	3 hrs	42	2 hrs	40	60	100	03
	OE 4.3.1	Karnataka Economy	3 hrs	42	2 hrs	40	60	100	03
	OE 4.3.2	Entrepreneurial Economics	3 hrs	42	2 hrs	40	60	100	03
	OE 4.3.3	Economics and Law	3 hrs	42	2 hrs	40	60	100	03
	OE 4.3.4	Economics of GST	3 hrs	42	2 hrs	40	60	100	03

Semester III

Course Title *Factor pricing and Welfare Economics*

Course Code:	DSC-3.1	No. of Credits	3
Contact hours	42 Hours	Duration of SEA/Exam	2 hours
Formative Assessment Marks		Summative Assessment Marks	60

Course Outcomes (COs): After the successful completion of the course, the student will be able to:

- CO1. Understand the meaning of factor incomes and factor pricing.
- CO2. Recognize basic supply and demand analysis of factors in perfect and imperfect market situations.
- CO3. Understand the meaning of social welfare and the means to maximize it.
- CO4. Identify causes inhibiting the attainment of maximum social welfare.
- CO5. Explain the meaning and significance of general equilibrium
- CO6. Recognize the causes of market failure.
- CO7. Identify problems related to asymmetric information.
- CO8. Analyse the need for government intervention in economic activities.

Contents	42 Hrs
Unit–1: Factor Pricing	18 Hrs
Chapter:1 Meaning and Significance of factor pricing - Functional (factor) and personal incomes - Demand and Supply of Factors of Production in Perfect and Imperfect Competitive Markets.	3
Chapter:2 Factor pricing in perfectly competitive markets - Marginal productivity theory of factor pricing	2
Chapter:3: Factor pricing in imperfectly competitive markets - Monopsony power: Trade Unions and wage determination - Bilateral monopoly	3
Chapter:4: Theories of wages, rent, interest, and profits (Brief conceptual discussion): Rent: Ricardian Theory, Modern Theory, and Quasi Rent. Wages: Subsistence Theory, Wage-Fund Theory, Residual Claimant Theory, Marginal Productivity Theory and Modern Theory. Interest: Classical Theory - Keynesian Liquidity Preference Theory	10

Profit: Dynamic Theory, Innovation Theory, Risk-bearing Theory and Uncertainty bearing Theory	
Practicum - Collecting information on labour supply to understand the reasons for its backward bending - Describing the graphs used in Chapter2 - Describing the graphs used in Chapter3 - Conducting class seminars about the above theories	
Unit -2: General Equilibrium	6 Hrs
Chapter 5 Circular flow - Partial and general equilibrium - General equilibrium in production and exchange (Edgeworth box and Pareto optimality in consumption and production) - Walrasian general equilibrium analysis	6
Practicum: Reading and describing the graphs used	
Unit -3: Welfare Economics	18 Hrs
Chapter 6: Individual welfare and social welfare – Pigou’s Welfare Economics - Social welfare function – Kaldor-Hicks Compensation criteria - Arrow’s impossibility theorem - Theory of second best.	7
Chapter 7: Market failure – Meaning of Market Efficiency – Reasons for Market Failure - Externalities, public goods, property rights and Coase Theorem	4
Chapter 8: Asymmetric information - Meaning - adverse selection, moral hazards, agency problems	3
Chapter 9: Government Intervention – Need for Public Policy - Price ceiling, floor - Taxes, subsidies, Tariffs and quotas - production, import and export quotas – Economics Justification for Welfare Schemes	4
Practicum: - Conducting surveys to understand the notion of welfare - Collecting information on various sources of market failure - Documenting the causes and consequences of adverse selection and moral hazards in the day-to-day life of students - Preparing a list of government programmes and giving justification for it from the point of view of Economics	

Pedagogy: Classroom lecture, tutorials, Problem solving exercise

Note: Strictly follow the Practicum

References	
1	Ahuja, H.L. (2008): <i>Principles of Microeconomics</i> , S. Chand and Co., New Delhi
2	Mankiw, N. Gregory (2020). <i>Principles of Economics</i> (Ninth ed.). Boston, MA.
3	Jhingan, M.L. (2016): <i>Microeconomics</i> , Vrinda Publications, New Delhi
4	Koutsoyianis, A (1979): <i>Modern Microeconomics</i> , London, Macmillan
5	Omkarnath, G. (2012: <i>Economics: A Primer for India</i> , Orient Blackswan, Hyderabad
6	Salvatore, Dominick (2008) <i>Microeconomics Theory and Applications</i> , Oxford University Press, New York
7	Samuelson, Paul (2004): <i>Economics</i> , McGraw-Hill, New Delhi
8	https://www.core-econ.org/the-economy/book/text/0-3-contents.html

Semester III

Course Title Basic Econometrics			
Course Code:	DSC-3.2	No. of Credits	3
Contact hours	42 Hours	Duration of SEA/Exam	2 Hours
Formative Assessment Marks	40	Summative Assessment Marks	60

Course Outcomes (COs): After the successful completion of the course, the student will be able to:

CO1. The students will be able to carry out ordinary least square regressions

CO2. as well as multiple regressions, which are at the very foundation of quantitative economic analysis.

CO3. The course is designed to make students familiar with more complex cases where the standard assumptions of the classic linear regression may not hold.

Contents	42 Hrs
Unit-1: Nature and Scope of Econometrics	12 Hrs
Chapter:1 Introduction to Econometrics: Meaning of Econometrics, Nature and scope of Econometrics- relationship with economics, mathematics and statistics Methodology of econometrics-Types of Econometrics	4
Chapter:2 Understanding Regression Model: The Historical Origin of the Term Regression- Modern Interpretation of Regression-Scatter Diagram-Regression Line- Statistical versus Deterministic Relationships-Regression versus Causation-Regression versus Correlation-Terminologies	4
Chapter:3 Two Variable Regression Analysis: Basic Idea-Conditional Mean-Conditional Probability-Population Regression Function (PRF)-Meaning of Linearity-Stochastic Specification of PRF-Significance of Error Term-Sample Regression Function	4
Unit -2: Regression Model: The Problem of Estimation	14 Hrs
Chapter 4 Method of Estimation: The Method of Ordinary Least Square-Point Estimator- Interval Estimator-Classical Linear Regression Model Assumptions-Properties of Least Square Estimators: The Gauss-Markov Theorem	4

Chapter-5: Estimation and Validation: Coefficient of Determination-Explained Sum of Squares-Residual Sum of Squares-Total Sum of Squares; Hypotheses Testing: precision of estimators- standard error-t-test- testing significance Individual Coefficients-Level of Significance	5
Chapter-6: Multiple Regression Analysis: Three Variable Regression Model-Estimation- Interpretation-Validation: Individual Coefficients (t-test)- Overall Significance (F-test) Model Fit: R-Squared and Adjusted R-Squared	5
Unit -3: Relaxing CLRM Assumptions and Advanced Regression Models	16 Hrs
Chapter 7-The Problems in Regression Model: Multicollinearity: Nature-Identification- Consequences-Detection- Remedial Measures; Heteroscedasticity: Nature-Identification- Consequences-Detection- Remedial Measures; Autocorrelation: Nature-Identification- Consequences-Detection- Remedial Measures	6
Chapter 8 Dummy Variable Regression Models: Nature of Dummy Variables – Specification of Dummy – Dummy Variable Trap – ANOVA – ANCOVA Models	6
Chapter 9 : Simultaneous Regression Model: Nature-simultaneous equation bias-Inconsistency of OLS estimators –Structural and Reduced form equations – Identification Problem- Under – Exact – Over identification –Rules of identification- Order and Rank condition- Introduction to methods of estimation-ILS-2SLS-IV-LIMLE-SUR-3SLS- FIMLE	4

Pedagogy: Classroom lecture, tutorials, Problem solving exercise

References	
1	Studenmund A. H., “Using Econometrics: A practical Guide”, Pearson Education, 7th Ed,2017
2	Stock, J. H. and Watson, M. W., “Introduction to Econometrics”, Pearson, 3rd Ed, 2015.
3	Brooks, C., “Introductory Econometrics for Finance”, Cambridge University press, 4th Ed,2019
4	Baum, C. E., “An Introduction to Modern Econometrics Using Stata”, Stata Press, 2006.
5	Gujarati, D. N., “Econometrics by Example”, Red Globe Press, 2nd Ed, 2014
6	Koutsoyiannis, A, Theory of Econometrics
7	Wooldridge, J. M., “Introductory Econometrics: An Introductory Approach”, Southwestern, Cengage Learning, 5th Ed, 2013
8	Gujarati, D. N., Porter D.C., Gunasekar S., “Basic Econometrics”, Mc Graw Hill, 5th Ed, 2012
9	MarnoVerbeek, 2017,“A Guide to Modern Econometrics”, John Wiley & Sons, Ltd, 5 th Edition.
10	Enders, W., “Applied Econometric Time Series”, Wiley 4th Edition, 2018.
11	Baltagi, B.H. “Econometric analysis of panel data”, John Wiley and Sons, 5th Edition,2013
12	Pindyck, R.S. and Rubin Feld, D.L., “Econometric Models and Economic Forecasts” 4th Ed
13	Jeffrey M. Wooldridge Econometric Analysis of Cross Section and Panel Data, MIT Press

Semester III

Program Name	BSc in Economics	Semester	Third Semester
Course Title	Rural Economics		
Course Code:	OE-3.3.1	No. of Credits	3
Contact hours	42 Hours	Duration of SEA/Exam	2 Hours
Formative Assessment Marks	40	Summative Assessment Marks	60

Course Outcomes (COs): After the successful completion of the course, the student will be able to: CO1. To Understand the basics of rural development, CO2. To study the characteristics, problems, and programmes of rural redevelopment CO3. To study the trends and patterns of economic activities in rural areas CO4. To study the role of infrastructural facilities and governance in rural development CO5. To enable the students to know about significance of rural enterprises and agricultural allied activities.	
Contents	42 Hrs
Unit-1:	12 Hrs
Chapter:1 - Introduction to Rural Economy Meaning and Objectives of Rural economy Characteristics of Rural Economy Indicators of Rural Development Concepts of inclusive and sustainable development	5
Chapter:2 - Approaches to Rural Development Gandhian Model Community Development Approach, Minimum Needs Approach, Integrated Rural Development and Inclusive Growth Approach.	4

Chapter:3 - Poverty and Unemployment in Rural India Meaning and Measurement of Poverty Causes of Poverty Farm and Non-farm employment Measurement and Types employment Review of Poverty Alleviation and Employment Generation Programmes in India.	5
Practicum: • Field visit to nearby village and study the poverty situation • Field visit to village and study the employment pattern • Undertake evaluation study on employment generation programmes and prepare an assignment.	
Unit -2:	14 Hrs
Chapter 4- Rural Enterprises Meaning and Importance, Classification of MSME Progress and Problems of MSME Khadi and Village Industries	5
Chapter-5: Rural Banking and Finance Credit Co-operative Societies Regional Rural Banks Role of NABARD Microfinance Institutions	4
Chapter-6: Rural Infrastructure Educational and Health Infrastructure Housing and Sanitation Drinking Water Supply Rural Transport and Communication Rural Electrification	5
Practicum: • Write an assignment on Rural infrastructure • Write a small report on Rural Industry	

Unit -3:	14 Hrs
Chapter 7- Rural Development Programmes Wage Employment Programmes Self-employment and Entrepreneurship Development Programmes Rural Housing Programmes Rural Sanitation Programmes	4
Chapter 8 - Rural Markets Meaning and Types of Rural Markets Defects and Government Measures for Removal of Defects in rural markets Co-operative Marketing Societies Meaning and Importance of Regulated Markets Digital Marketing(e-NAM)	5
Chapter 9 - Rural Governance Legislations powers, Functions, and sources of revenue of Panchayat Raj Institutions Role of NGOs in rural development People's participation in rural development	5
Practicum: • Group Discussion on Rural Governance • Interview Gram Panchayat members and prepare a brief note on their participation in rural development. • Undertake an evaluation study on rural development programmes and prepare an assignment.	

Pedagogy: Classroom lecture, tutorials, Problem solving exercise

Note: *Strictly follow the Practicum*

References	
1	Chambers, R. (1983): Rural Development: Putting the Last First, Longman, Harlow.
2	Dandekar, V.M. and N. Rath (1971): Poverty in India, GIPE, Pune.
3	Dantwala, M. L. (1973): Poverty in India: Then and Now, 1870-1970, Macmillan, Bombay.
4	Gupta. K .R. (Ed) (2003): Rural Development in India, Atlantic Publishers and Distributors, NewDelhi.
5	Jain, Gopal Lal (1997): Rural Development, Mangal Deep Publications, Jaipur,
6	Singh, Katar (1986): Rural Development: Principles, Policies and Management, Sage Publications, New Delhi, (Second Edition).
7	Karalay, G. N. (2005): Integrated Approach to Rural Development: Policies, Programmes and Strategies, Concept Publishing Company, New Delhi.
8	Maheshwari, S. R. (1985): Rural Development in India, Sage, Publications New Delhi.
9	Satya Sundaram, I. (1997): Rural Development, Himalaya Publishing House, Delhi.
10	Mehta, Shiv R. (1984): Rural Development Policies and Programmes, Sage Publications, New Delhi.
11	Tyagi, B. P. (1998): Agricultural Economics and Rural Development, Jai Prakash Math and Co., Meerut.

Semester III

Program Name	BSc in Economics	Semester	Third Semester
Course Title	Economics of Insurance		
Course Code:	OE-3.3.2	No. of Credits	3
Contact hours	42 Hours	Duration of SEA/Exam	2 Hours
Formative Assessment Marks	40	Summative Assessment Marks	60

Course Outcomes (COs): After the successful completion of the course, the student will be able to: CO1. Gain knowledge relating to the importance of insurance in the life of human beings. CO2. Acquaint with the conceptual framework of Insurance CO3. Understand the Fundamentals of Life and Health Insurance, functions of Life and Health Insurance CO4. Gain Knowledge relating to Insurance Documentation and Insurance legislation	
Contents	42 Hrs
Unit–1: Introduction to Economics of Insurance	14
Chapter:1 - Fundamentals of Economics of Insurance ➤ Definition of Insurance ➤ Scope of economic insurance ➤ Importance of insurance	4
Chapter:2 - The conceptual framework ➤ Brief history of insurance ➤ Perils and risks in insurance, Classification of risks hazards ➤ How insurance works ➤ Classes of insurance and assumptions	5
Chapter:3 - Type of Insurance ➤ Risk pooling and risk transfer in insurance ➤ Social vs private insurance ➤ Life vs non-life insurance	5
Unit -2: Insurance Planning	14

Chapter 4- Types of Insurance Planning ➤ Wealth accumulation plan lifecycle planning ➤ Planning for wealth accumulation ➤ Tax advantage and tax non-advantage	4
Chapter-5: Retirement Planning ➤ Essential of individual retirement planning ➤ Investing pension plan, basic principles of pension plans ➤ Pension plans in India	5
Chapter-6: General Insurance Structure ➤ General Insurance, concept of General Insurance ➤ Types of General Insurance, Marine Insurance, Motors Insurance, Agricultural Insurance ➤ Fire Insurance, Personal Accident Insurance	5
Unit -3: personal insurance / Health Insurance	14 Hrs.
Chapter 7- Essential of Life and Health Insurance ➤ Fundamentals of Life and Health Insurance, functions of Life and Health Insurance ➤ Health Insurance and Economic Development, Insurance and Farmer Security	3
Chapter 8 - Insurance Documentation ➤ Health Insurance products, Health Insurance underwriting ➤ Health Insurance claims	3
Chapter 9 - Insurance Legislation ➤ The insurance act, 1938- Registration- Accounts and Returns ➤ Investments -Limitation on expense of Management ➤ Regulation of Insurance, Insurance regulation in India, role and need of regulation, history of insurance regulation in India ➤ Insurance Reforms Development Authority (IRDA), performance of IRDA ➤ Indian Insurance in global platform, future potential in Indian Insurance Business	8

References	
1	Bailey, R. (Ed.) (1999), Underwriting in Life and Insurance, LOMA, Atlanta, Ga.
2	Bhole, L.M. (1990), The Indian Financial System, Tata McGraw Hill, New Delhi.
3	Bickelhaupt, D.L. (1992), General Insurance, Irwin Inc., Burr Ridge, Ill.
4	Black, K. Jr. and H.D. Skipper Jr. (2000), Life and Health Insurance, Prentice Hall, Upper Saddle River, New Jersey.
5	Finsinger, J. and M.V. Pauly (Eds.) (1986), The Economics of Insurance Regulation : A Cross National Study, Macmillan, London.
6	Graves, E.E. and L. Hayes (Eds.) (1994), McGill's Life Insurance, The American College, Bryn Mawr, Pa.
7	Head, G.L. and S. Horn II (1991), Essentials of Risk Management, Volume I, Insurance Institute of America, Malvern, Pa.
8	Skipper, Jr., H.D. (Ed.) (1998), International Risk and Insurance : An Environmental Managerial Approach, Irwin McGraw Hill, Boston.
9	Tacchino, K.B. and D.A. Little (1993), Planning for Retirement Needs, The American College, Bryn Mawr, Pa.

Semester III

Program Name	BSc in Economics	Semester	Third Semester
Course Title	Economics of Human Development		
Course Code:	OE-3.3.3	No. of Credits	3
Contact hours	42 Hours	Duration of SEA/Exam	2 hours
Formative Assessment Marks	40	Summative Assessment Marks	60

Course Outcomes (COs): After the successful completion of the course, the student will be able to:

CO1. Differentiate between Human Resource Development (HRD), Human Development (HD) and HRM

CO2. Understand the concepts of Human Security, describe dimensions of human development, and appreciate various practices and policies of human development, HDI and India.

Contents	42 Hrs
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Unit-1: Introduction to Human Development	12 Hrs
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Chapter 1: Human Growth and Human Development - Basic Needs Approach - Quality of Life Approach - Capability Approach

Chapter 2: Human Resource Development (HRD), Human Resource Management (HRM).

Chapter 3: Human Development: meaning and definition, importance, and objectives.

Unit -2: Human Security, SDGs and Approaches to Human Development.	12Hrs
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Chapter 4: Human Security: Economic security - Food security - Health security - Environmental security - Personal security - Community security - Political security.

Chapter 5: Sustainable Development Goals (SDGs): Understanding the SDGs - Linkages between human development and the SDGs.

Chapter 6: Indian Perspectives and Experience with Human Development: Approach to human development in national plans

Unit -3: Dimensions and Measurement of Human Development	18 Hrs
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Chapter 7: Dimensions of Human Development: Empowerment - meaning and usage, Cooperation - definition and brief introduction, Equity - concept and usage, Sustainability – meaning and importance, Participation - concept, different forms of participation, Human development & Productivity - factors determining productivity.

Chapter 8: Measuring Human Development: Need for indices - limitations of per capita GDP as an indicator. Earlier indices (meaning): - Physical Quality of Life Index (PQLI), - Disability Adjusted Life Years (DALYs), - Social Capability Index. Human Development Index - HDI as compared to per capita GDP - Method of computing HDI - Critique of HDI. Other indices (meaning): Human Poverty Index (HPI)- Gender-related Development Index (GDI) - Gender Empowerment Measure (GEM).

Chapter 9: Selected Issues in Human Development: Impact of Globalisation on Human Development - Trade and Human Development. - Technology and Human Development

Pedagogy: Classroom lectures, tutorials, Problem-solving exercise

References	
1	Chelliah, Raja J. and R. Sudarshan (eds.), 1999, Income Poverty and Beyond: Human Development in India, UNDP, Social Science Press, New Delhi
2	Dev, S. Mahendra, Piush Antony, V. Gayathri, and R.P. Mangain, 2001, Social and Economic Security in India, Institute for Human Development, New Delhi
3	Government of India, National Human Development Report 2002, Planning Commission, New Delhi
4	Jaya Gopal, R: Human Resource Development: Conceptual analysis and Strategies, Sterling Publishing Pvt. Ltd., New Delhi
5	Naresh Gupta (2019), Human Development in India Emerald Publishers.
6	Nadler, Leonard (2004), Corporate Human Resource Development, Van Nostrand Reinhold, ASTD, New York
7	Padmanabhan Nair (2007) Human Development Index: An Introduction (Economy Series), ICFAI University Press
8	Papalia, D.E. , Olds, S.W. and Feldman, R.D. (2006), Human development. 9th Ed. New Delhi: Tata McGraw- Hill.
9	Rao, T.V and Pareek, Udai (2005) Designing and Managing Human Resource Systems, Oxford IBH Pub. Pvt.Ltd., New Delhi.
10	Rao, T.V: Readings in HRD, Oxford IBH Pub. Pvt. Ltd., New Delhi,
11	Virmani, B.R and Seth, Parmila: Evaluating Management Development, Vision Books, New Delhi.
12	Rao, T.V. (et.al)(2003) HRD in the New Economic Environment, Tata McGraw-Hill Pub.Pvt, Ltd., New Delhi,
13	Rao, T.V: Human Resource Development, Sage Publications, New Delhi.

14	Viramani, B.R and Rao, Kala: Economic Restructuring, Technology Transfer and Human Resource Development, Response Books, New Delhi
15	United Nations Development Programme (2005); 'Course Curriculum on Human Development-An Outline', New Delhi

Websites:	
1	https://www.undp.org/sustainable-development-goals?c_src=CENTRAL&c_src2=GSR
2	https://hdr.undp.org/en/2020-report
3	https://www.un.org/millenniumgoals/
4	https://www.undp.org/india/publications/national-human-development-report-india
5	https://www.sdgfund.org/mdgs-sdgs

Journals	
1	Indian Journal of Training and Development
2	HRD Newsletter (NHRD Network)
3	American Journal of Training and Development

Semester IV

Program Name	BSc in Economics	Semester	Fourth Semester
Course Title	Monetary Economics		
Course Code:	DSC-4.1	No. of Credits	3
Contact hours	42 Hours	Duration of SEA/Exam	2 Hours
Formative Assessment Marks	40	Summative Assessment Marks	60

Course Outcomes (COs): After the successful completion of the course, the student will be able to:

- CO1. Understand the operation of the overall monetary economy and money
- CO2. What constitutes supply and demand for money as well as theories and approaches.
- CO3. Monetary policy and inflation and its impact on the welfare

Contents	42 Hrs
Unit-1: Introduction to money and monetary economics	15 Hrs
Chapter:1 Introduction: ➤ Theoretical and empirical definition of money ➤ Role and Functions of Money ➤ Paper currency – system of Note issue ➤ weighted monetary aggregates	5
Chapter 2: Money demand and supply ➤ Concepts of supply and demand for money ➤ Microeconomic determinants of the demand for money and macroeconomic money demand functions ➤ Financial intermediaries, banks, and money creation ➤ Money supply and price level ➤ Determinants of money supply ➤ High powered money ➤ Money multiplier ➤ The reserve ratio and deposit multiplier	10

Unit -2: Theories and approaches of demand for and supply of money	15 Hrs
Chapter-3: Theories of demand for money and supply: ➤ Tobin’s portfolio selection and Baumol’s transaction demand for money ➤ Friedman’s restatement of quantity theory of money ➤ Endogenous money supply, Kaldor’s theory	8
Chapter-4: Approaches - demand for money and supply: ➤ Laidler’s buffer stock approach ➤ Gurley-Shaw’s approach ➤ Behavioural approach of money supply	7
Unit -3: Inflation and Monetary Policy	12 Hrs
Chapter-5: Inflation: ➤ Inflation – Types – causes – effects and Remedies ➤ Monetarist view on Inflation-Concept of core inflation ➤ measures of inflation (CPI, WPI, Core, Headline, GDP deflator) ➤ Monetary Targeting-Inflation targeting ➤ Interest rate targeting-p-star model ➤ Rule vs. discretion in the conduct of monetary policy ➤ central bank’s -measures of monetary control	5
Chapter-6: The welfare effects of inflation and monetary policy: ➤ Neutrality and super neutrality of money, welfare costs, and the inflation tax ➤ The Classical model, flexible price economies and monetary policy ➤ Rational expectations, representative agents and real business cycle theory. MIU, CIA, Lucas supply functions and the effects of monetary policy. ➤ The new Keynesian approach to monetary policy — nominal rigidities: ➤ New Keynesian Phillips curve, IS Curve, Taylor rules, financial accelerator models.	7

Pedagogy: Classroom lecture, tutorials, Problem solving exercise

References	
1	Chandler, L. V. and S. M. Goldfeld, The Economics of Money and Banking, Harper &
2	Row, New York, 1977.
3	M.L.Seth - Money Banking and International Trade ,Tata McGraw Hill Company Ltd.,
4	New Delhi, 1999.
5	Gupta, S B, Monetary Economics Institutions and policy, S.Chand& Co., New Dehi,
6	1995.
7	Mithani.D - Money Banking and International Trade.
8	Patinkin, Money, Interest and Prices, Harper and Row, New York.
9	Khan M. Y., Indian Financial System, Tata McGraw Hill, New Delhi, 1996.

Semester IV

Program Name	BSc in Economics	Semester	Fourth Semester
Course Title	Time Series Econometrics		
Course Code:	DSC-4.2	No. of Credits	3
Contact hours	42 Hours	Duration of SEA/Exam	2 Hours
Formative Assessment Marks	40	Summative Assessment Marks	60

Course Outcomes (COs): After the successful completion of the course, the student will be able to: CO1. Deal with comprehensive set of tools and techniques for analysing various forms of univariate and multivariate time series CO2. Understand the current literature in applied time series. CO3. Use statistical packages like STATA, E-views, SPSS and the like	
Content of Theory	42 Hrs
Unit–1: Dynamic Econometric Models - Autoregressive and Distributed Lag Models	12 Hrs
Chapter:1 Role of lag in economics – Reasons for lag –distributed lag model – autoregressive model- Estimation of distributed lag models – Ad Hoc estimation – Koyck approach –mean lag- median lag	4
Chapter-2: Rationalization of Koyck model – Adaptive expectation model- stock adjustment or partial adjustment model –Combination of Adaptive expectation and partial adjustmentmodels.	4
Chapter-3: Estimation of Autoregressive models: Method of instrumental variables (IV)- detection of autocorrelation in autoregressive models – Durbin h test- The Almon Approach to Distributed-Lag Models: The Almon or Polynomial Distributed Lag (PDL)	4
Unit -2: Time Series Econometrics	14 Hrs
Chapter-4: Basic Concepts of Time Series: Stylised characteristics of time series data- Basic concepts of time series model- stochastic process-, Stationary Process, Non-stationary process- random walk model – random walk without drift- random walk with drift –random walk around stochastic trend	4
Chapter-5: Unit Root Tests: spurious regression – non-stationarity or unit root tests – Graphs – Autocorrelation function (ACF)-partial autocorrelation function (PACF) The Augmented	4

Dickey–Fuller (ADF) Test - The Phillips–Perron (PP) Unit Root Tests - A Critique of the Unit Root Tests- Transforming Nonstationary Time Series –difference stationary –Trend stationary.	
Chapter-6: Cointegration: Meaning – Regression of unit root time series – Testing for Cointegration – Engle-Granger two step test – Johansen test: maximum eigenvalue test Trace test-Phillips –Ouliaris three step test-Error correction mechanism	6
Unit -3: Time Series Econometrics: Forecasting	16 Hrs
Chapter-7: Approaches to Economic Forecasting: exponential smoothing – Single equation regression models – Simultaneous equation regression models – ARIMA models	3
Chapter-8: AR, MA, and ARMA and ARIMA Models: Autoregressive models (AR)- Moving average models (MA)-Autoregressive moving average models(ARMA)- Autoregressive integrated moving average models (ARIMA)	6
Chapter-9: Box-Jenkins (BJ) Methodology: Steps involved in BJ method – Identification: Autocorrelation function (ACF)-partial autocorrelation function (PACF) –Estimation-Diagnostic checking- Forecasting	7

Pedagogy: Classroom lecture, tutorials, Problem solving exercise

References	
1	Gujarati, D. N., Porter D.C., Gunasekar S., “Basic Econometrics”, Mc Graw Hill, 5th Ed, 2012
2	Marno Verbeek, 2017, “A Guide to Modern Econometrics”, John Wiley & Sons, Ltd, 5 th Edition.
3	Enders, W., “Applied Econometric Time Series”, Wiley 4th Edition, 2018
4	Baltagi, B.H. “Econometric analysis of panel data”, John Wiley and Sons, 5th Edition,2013
5	Koutsoyiannis, A, Theory of Econometrics
6	Brooks, C., “Introductory Econometrics for Finance”, Cambridge Universitypress, 4th
7	Edition, 2019
8	Baltagi, B.H. “Econometric analysis of panel data”, John Wiley and Sons, 5thEdition,2013
9	Pindyck, R.S. and Rubinfeld, D.L., “Econometric Models and EconomicForecasts” 4th Ed
10	Jeffrey M. Wooldridge Econometric Analysis of Cross Section and PanelData, MIT Press
11	Wooldridge, J. M., “Introductory Econometrics: An Introductory Approach”,South Western, Cengage Learning, 5th Edition, 2013

Semester IV

Program Name	BSc in Economics	Semester	Fourth Semester
Course Title	Karnataka Economy		
Course Code:	OE 4.3.1	No. of Credits	3
Contact hours	42 Hours	Duration of SEA/Exam	2 Hours
Formative Assessment Marks	40	Summative Assessment Marks	60

Course Outcomes (COs): After the successful completion of the course, the student will be able to: CO1. Understand the nature of economic growth and problems of Karnataka state. CO2. Explain the process of structural growth in Karnataka Economy CO3. Evaluate the policies and programmes undertaken by the Govt. of Karnataka for bringing about socio-economic development	
Contents	42 Hrs
Unit–1: Karnataka Economy – An overview	12 Hrs
Chapter:1 Characteristics of Karnataka Economy ○ Features of Karnataka Economy ○ Trends and sectoral distribution of State Domestic Product and Per Capita Income ○ Measures to redress regional imbalances – Dr. Nanjundappa Committee Report, Article 371J	5
Chapter-2: Human Resources ○ Human Resources: importance, Size and Health indicators ○ Human Development Index ○ Poverty and Unemployment– Eradication Programmes	4
Chapter-3: Natural Resources Management ○ Natural Resources: Importance and volume of different natural resources ○ Karnataka Environmental Policy Practicum: conduct a field visit to Forest/Reservoir/Mining and prepare the report	3
Unit -2: Agriculture, Rural Development, and Industries in Karnataka	18 Hrs
Chapter-4: Agriculture ○ Problems in Agriculture ○ Land Reforms	7

○ Cropping Pattern ○ Irrigation: importance, important irrigation projects and watershed development projects. ○ Farmers Suicide – Causes and Solutions	
Chapter-5: Rural Development ○ Public Distribution System ○ Rural Development Programmes (brief) ○ Government Schemes for Rural Women	4
Chapter 6: Industries in Karnataka ○ Major Industries in Karnataka - Problems and Prospects ○ MSMEs - Problems and Measures ○ IT Industries in Karnataka ○ Industrial Finance in Karnataka ○ Industrial Policy of Karnataka Practicum: visit industrial units in local area and prepare the report/Trace-out the impact of Prof. D. M. Nanjundappa Committee report	7
Unit -3: Infrastructure and Finance in Karnataka	12 Hrs
Chapter 7: Economic Infrastructure ○ Transportation: Road, Rail, Water and Air Transport ○ Information and Communication Technology Facilities	3
Chapter 8: Social Infrastructure ○ Drinking Water ○ Housing and Sanitation ○ Health and Education ○ Rural Electrification	4
Chapter-9: State Finance ○ Sources of Revenue: Direct and Indirect Taxes ○ Impact of GST on Karnataka economy ○ State Expenditure ○ State Finance Commission ○ Current State Budget (Brief) Practicum: Discussion on the State budget	5

Pedagogy: Classroom lecture, tutorials, Problem solving exercise

Note: *Strictly follow the Practicum*

References	
1	Government of Karnataka, Economic Survey [Various Issues]
2	Planning Department, Annual Publication, Government of Karnataka.
3	Karnataka at Glance, Annual Publication Government of Karnataka.
4	Madaiah M & Ramapriya. Karnataka Economy Growth: Issues and Development, Himalaya Pub., House, NewDelhi.
5	Adul Aziz and K.G. Vasanti. (Eds) Karnataka Economy.
6	Government District Development Reports
7	Hanumantha Rao. Regional Disparities and Development in Karnataka.
8	Nanjundappa D.M. Some Aspects of Karnataka Economy.
9	Puttaswamiah K. Karnataka Economy, Two Volume

Semester IV

Program Name	BSc in Economics	Semester	Fourth Semester
Course Title	Entrepreneurial Economics		
Course Code:	OE 4.3.2	No. of Credits	3
Contact hours	42 Hours	Duration of SEA/Exam	2 Hours
Formative Assessment Marks	40	Summative Assessment Marks	60

Course Outcomes (COs): After successfully completing the course, the student will be able to: CO1. Start own business as Entrepreneur CO2. Enabling the students to find career opportunities in business. CO3. To enable the students to gain knowledge and skills needed to run a business successfully.	
Contents	42 Hrs
Unit–1: Entrepreneur and Entrepreneurship	12 Hrs
Chapter 1: Entrepreneur and Entrepreneurship – Meaning, Definitions, Evolution, types- Characteristics, qualities, functions of entrepreneur- Distinction between entrepreneur and manger, Distinction between entrepreneur and intrapreneur, Chapter 2: Role and importance of Entrepreneurship in economic development: Role and importance- Factors influencing entrepreneurship’ - Psychological, social, Economic and Environmental. Chapter 3: New generations of entrepreneurship viz. social, Health, Tourism and Women entrepreneurship; Barriers to entrepreneurship.	
Unit -2: Launching Entrepreneurial Ventures	18 Hrs
Chapter 4: Generation of ideas: Methods and process - sources of ideas - screening process- Assessing Opportunities-Challenges, pitfalls and critical factors of new venture; Chapter 5: Business Plan- New Ventures: Steps involved in setting up a Business – identifying, selecting a Good Business opportunity, Market Survey and Research, Techno-Economic Feasibility Assessment. Chapter 6: Role of Innovation & Creativity: Innovation- Meaning and importance of innovation; Types of innovation; Sources of innovation; Conditions for effective innovation at Organization level; Chapter 7: Creativity: Concept and process of creativity; role and importance of creativity and mental blocks to creativity; branding, trademarks, patents, copyrights, and registered design protection-Methods of protecting innovation and creativity.	

Unit -3: Business and Entrepreneurial development	12 Hrs
Chapter 8: Entrepreneur Assistance: Assistance to an entrepreneur-Industrial Park (Meaning, features, & examples)-Special Economic Zone (Meaning, features & examples)-Financial assistance by different agencies-License, Environmental Clearance, e-tender process, Excise exemptions and concession, Exemption from income tax -Quality Standards with special reference to ISO. Chapter 9: Business and Entrepreneurial development - Determining and acquiring required resources (Financial, Physical and Human): Search for entrepreneurial capital- Debt vs. Equity; Venture Capital Market; Angel Financing and Alternative sources of finance for Entrepreneurs. Entrepreneurship development programme (EDP) in India– Objectives, Phases, and inputs of EDP; - Government initiatives for entrepreneurship – Make in India, Start-up India, MUDRA etc.	

Pedagogy: Classroom lecture, tutorials, Problem solving exercise

References	
1	Donald F Kuratko, “Entrepreneurship – Theory, Process and Practice”, 9 th Edition, Cengage Learning, 2014.
2	Khanka. S.S., “Entrepreneurial Development” S.Chand & Co. Ltd., Ram Nagar, New Delhi, 2013.
3	Kuratko and Rao, Entrepreneurship: A South Asian Perspective; Ferrell, Fraedrich, Farrell, Business Ethics, Cengage Learning
4	Entrepreneurship, R. Saibaba, Kalyani Publishers, New Delhi.
5	Entrepreneurship Development and Business Ethics, Sanjeet Sharma – V.K. Global Pvt. Ltd., New Delhi
6	SS Khanka, Entrepreneurial Development, S. Chand & Co, Delhi.
7	Desai, Vasant. Dynamics of Entrepreneurial Development and Management. Mumbai, Himalaya Publishing House
8	Plsek, Paul E. Creativity, Innovation and Quality (Eastern Economic Edition), New Delhi:Prentice-Hall of India. ISBN-81-203-1690-8.
9	Singh, Nagendra P. Emerging Trends in Entrepreneurship Development. New Delhi: ASEED.
10	Entrepreneurship Development and Business Ethics - M K Nabi, K C Rout, Vrinda Publications (P) Ltd
11	Robert Hisrich and Michael Peters, Entrepreneurship, Tata Mc Graw– Hill Vasant Desai, Entrepreneurship
12	Marc J Dollinger, Entrepreneurship – Strategies and Resources, Pearson Education
13	Venkateshwara Rao and Udai Pareek, (Eds)Developing Entrepreneurship-A Handbook
14	Ravi J. Mathai, Rural Entrepreneurship A Framework in Development Entrepreneurship –A handbook

Semester IV

Program Name	BSc in Economics	Semester	Fourth Semester
Course Title	Economics and Law		
Course Code:	OE 4.3.3	No. of Credits	3
Contact hours	42 Hours	Duration of SEA/Exam	2 Hours
Formative Assessment Marks	40	Summative Assessment Marks	60

Course Outcomes (COs): After the successful completion of the course, the student will be able to: CO1. Comprehend the basic economic issues affecting the economy along with the related legal provisions CO2. Acquire knowledge on the basic provisions of law relating to consumer activities, business organizations, environment CO3. To appreciate the understanding the law framework in order to frame the economics model closer to reality. CO4. To enable the students to understand the consequences of legal rules, primarily as an exercise in applied microeconomics, macroeconomics, industrial and international economics.	
Contents	42 Hrs
Unit–1: Economic analysis of law	14 Hrs
Chapter 1: Introduction to legal reasoning • Efficiency. • Markets and efficiency. • Market failure. • Coase theorem and related ideas,	5
Chapter 2: welfare economics • Compensation principles. • Social welfare function. • Maximization problem;	4
Chapter 3: Economic Reasoning • Nature of economic reasoning. • Economic approach to law • History • Criticism.	5
Practicum: 1. Group Discussions on Economic reasoning 2. Assignment on Coase theorem and related issues	
Unit -2: An Introduction to Law and Legal Institutions	12 Hrs

Chapter 4: Law • Definition • Territorial Nature of Law • Kinds of Law • General Law and Special Law • Kinds of Special Law	4
Chapter 5: Civil law and the and the Common Law Traditions • The institutions of the federal and State Court systems. • The nature of legal dispute, • How legal rules evolve.	4
Practicum: 1. Group Discussions on Civil law and the and the Common Law Traditions 2. Assignment on the different kinds of Law	
Unit -3: Economic Laws	16 Hrs
Chapter 6: Law Relating to Consumer Activities • Bargaining theory. • Economic theory of contract. • Defining tort law, • Economics of tort liability. • Definition of Consumer • Consumer protection; • The Consumer Protection Act, 2019 • Consumer courts.	5
Chapter 7: Law of Business Organizations • Structure of firm — Kinds, Corporations, • Capital, Shares, Debentures, Insiders' trading, • RBI, IRDA, MRTTP, Role of SEBI,	5
Chapter 8: Macroeconomics and Law • Inequality; Contract theory of Distributive justice • Economic and social costs of poverty • Wealth distribution by Liability Rules • Taxation and efficiency • National and global environmental problems and international environmental agreements — their legal and economic implications	6
Practicum 1. Hold the moot court in the classroom and let there be a discussion consisting of at least two or more different views on National and Global environment problems and acts 2. Discuss the case studies on the Economic and social costs of poverty and consumer court judgements protecting the consumers	

Pedagogy: Classroom lectures, tutorials, Problem-solving exercise

Note: Strictly follow the Practicum

References	
1	Bouckaert, B. and G. De Geest (Ed.) (1999), Encyclopaedia of Law and Economics, (Volume I to V), Edward Elgar Publishing Ltd., U.K.
2	Cooter, R.D. and T.S. Ulen, (2000), Law and Economics, (3rd Edition), Addison Wesley, New York.
3	Dan-Schmidt, K.G. and T.S. Ulen (Ed.) (2000), Law and Economic Anthology, Addison Wesley, New York.
4	Newman, P. (Ed.) (1998), The New Palgrave Dictionary of Economics and Law, Stockton Press, New York.
5	Oliver, J.M. (1979), Law and Economics, George Allen and Unwin, London.
6	Posner, R.A. (1998), Economic Analysis of Law, (5th Edition), Little Brown, Boston.
7	Posner, R.A. and F. Parisi (Eds.) (1997), Law and Economics, Edward Elgar Publishing Ltd., U.K.
8	Massey, I.P. (1995), Administrative Law, Eastern Book Company, Lucknow.
9	Indian Law Institute, Annual Survey of Indian Law, Indian Law Institute, New Delhi.

Semester IV

Program Name	BSc in Economics	Semester	Fourth Semester
Course Title	Economics of GST		
Course Code:	OE 4.3.4	No. of Credits	3
Contact hours	42 Hours	Duration of SEA/Exam	2 Hours
Formative Assessment Marks	40	Summative Assessment Marks	60

Course Outcomes (COs): After the successful completion of the course, the student will be able to: CO1. Acquire knowledge on indirect taxes with special reference to GST CO2. Acquire the theoretical and application knowledge of GST and its Evolution in India CO3. To enable the students to understand the GST Law, ITC, Valuation of supply and returns CO4. Simple calculation of GST and Input Tax Credit, Valuation of Supply (Numerical on valuation and calculation of tax)	
Contents	42 Hrs
Unit–1: Introduction to Economics of GST	14 Hrs
Chapter 1: Indirect taxes before GST - Indirect Taxes-Meaning, Types with examples - Constitutional framework of Indirect Taxes before GST (Taxation Powers of Union & State Government); - Concept of VAT: Meaning, Variants and Methods;	5
Chapter 2: Reforms in Indirect Taxes - Major Defects in the structure of Indirect Taxes prior to GST; Need for Tax reforms - Kelkar committee on Tax Reforms	4
Chapter 3: Introduction to GST - Rationale for GST; - Constitution [101st Amendment] Act, 2016; - GST- Meaning, Overview of GST - Taxes subsumed under GST - Territorial Jurisdiction of GST	5

- Multiple rates of GST - Recent reforms in GST	
Practicum: 1. Group Discussions on Indirect Taxes defects prior to GST 2. Assignment on Types of Indirect Taxes prior to GST and After introduction of GST	
Unit – 2 Fundamentals of GST	12 Hrs
Chapter 4: GST Structure in India, - GST: Advantages and Disadvantages - One Nation-One Tax, - Structure of GST; - Features of Single and Dual GST Model	4
Chapter 5: Dual GST Mode and GST Council - Dual GST Mode in India: 1 SGST, CGST, UTGST & IGST); - Goods and Services Tax Network [GSTN], - GST Council; Creation, Members, Decisions, Compensation to states. - GST Network, - Registration,	4
Practicum: 1. Group Discussions on advantages and disadvantages of GST 2. Hold the moot of GST Council in the class room and decide the different slabs of GST	4
Unit -3: Taxes and Duties	16 Hrs
Chapter 6: Transactions and taxes covered and not covered - Transactions and taxes covered under GST - Taxes and duties outside the purview of GST - Tax structure Computation - Administration of Tax on items containing alcohol, petroleum products, tobacco products - Taxation on services	4

Chapter 7: Levy and Collection of Tax • Taxable event- “Supply” of Goods and Services • Place of Supply: Within state, Interstate Levy and Collection • Import and Export; Time of supply • Valuation for GST- Valuation rules, • Taxability of reimbursement of expenses; Exemption from GST: Small supplies and Composition Scheme Classification of Goods and Services: Composite and Mixed Supplies.	6
Chapter 8: Input Tax Credit • Eligible and Ineligible Input Tax Credit • Apportionments of Credit and Blocked Credits • Tax Credit in respect of Capital Goods • Recovery of Excess Tax Credit • Availability of Tax Credit in special circumstances • Transfer of Input Credit (Input Service Distribution) • Payment of Taxes; Refund; Doctrine of unjust enrichment	6
Practicum 1. Simple illustrations on calculation of GST and Input Tax Credit, 2. Valuation of Supply (Numerical on valuation and calculation of tax) 3. Simple calculation Adjustment of Input tax credit against output CGST, SGST, IGST.	

Pedagogy: Classroom lecture, tutorials, Problem solving exercise

Note: Strictly follow the Practicum

References	
1	The Central Goods and Services Tax, 2017
2	The Integrated Goods and Services Tax, 2017
3	The Union Territory Goods and Services Tax, 2017
4	The Goods and Services Tax (Compensation to States), 2017
5	The Constitution (One hundred and First Amendment) Act, 2016
6	Gupta, S.S. , <i>GST- How to meet your obligations (April 2017)</i> , Taxmann Publications
7	Datey, V.S. (2019) . <i>Indirect Taxation</i> . New Delhi Vastu and Sevakar Vidhan by Government of India
8	Mehrotra, H.C. & Goyal, S.P.(2019), <i>Indirect Taxes</i> , Agra: Bhawan Publications.



BENGALURU CITY UNIVERSITY

CHOICE BASED CREDIT SYSTEM

**(Semester Scheme with Multiple Entry and Exit Options for
Under Graduate Course)**

**Syllabus for Economics
(V & VI Semester)**

2023-24

Dear Fellow Teacher

There are two models A1 and A3, out of which one has to be followed. In case A1 is followed, there will be one major core subject, in our case, it will be economics in the fifth and sixth semesters. In each of these semesters, there will be four discipline-specific (economics) compulsory papers which will be of four credits each, one discipline (economics) specific elective which will be of three credits, one Vocational paper in economics which is of three credits and one Skill Enhancement Course which is of two credits.

In case A3 is followed there will be two major core subjects, in our case, one will be economics in the fifth and sixth semesters and the other will be of their chosen choice say Political Science / History/ Sociology. In each of these semesters, there will be three discipline-specific papers each of four credits from the economics and other chosen subjects. and one Skill Enhancement Course which is of two credits.

In view of enhancing the skills and employability of the students, every Module is given a practicum, kindly follow in toto. Kindly see that students will get theoretical as well as practical knowledge of economics.

- S.R.Keshava

Acknowledgement

The Chairperson and Members thank Honourable Vice-Chancellor Prof. Lingaraja Gandhi for the opportunity to serve in BOS and other officials of the University for providing the logistics.

BOS Members

Dr.S.R.Keshava	Chairperson
Ms. M.S.Rukmini	Member
Ms. Jayanthi P. N	Member
Ms. Joyce Metilda Irudayam	Member
Dr. Revanna Siddeshwara M Kunthimut	Member
Dr. Shoba V Bhimsen	Member
Ms.Shrilatha A	Member
Mr.Ramesh Kumar L	Member
Mr. Clement Joseph D'souza	Member
Dr. Sudha B V	Member

A1: Undergraduate Programme with two core subjects without practicals in the first two years and one Major Subject (Economics) in the third year.

A1 Curriculum and Credit Framework for the B.A Programme with two core subjects without practicals in the first two years and one Major (Economics) in the third year

Sem.	<i>Discipline Specific - Core (DSC), Elective (DSE) Courses (Credits) (L+T+P)</i>		Vocational Courses(Credits) (L+T+P)	Skills Enhancement Courses (SEC) (Credits) (L+T+P)/Value Added Courses (Credits) (L+T+P) (common for all UG Programs)/	Total Credits
V	DSC - 9	Public Economics (4),	Vocational -1(3) Choose one 1)Entrepreneurial Economics 2)Digital Economics 3)Economics of Dairy Farming	SEC-4: Cyber Security (2)/ Soft skills and Communication Skills (1+0+2)	24
	DSC - 10	Development Economics (4),			
	DSC - 11	HRM (4),			
	DSC- 12 A	Indian Banking Finance (4)			
	DSE-E1, (Choose Anyone) (3)	1)Eco of GST, 2)Eco of Insurance 3)Rural Economics 4)Economics of Marketing			
VI	DSC- 13	International Economics (4),	Vocational-2(3), Choose One 1)Micro Entrepreneurs Development 2)Project, Planning & Management	SEC-5: General Aptitude (2) (1+0+2) / Internship (2)	24
	DSC -14	Indian Public Finance (4),			
	DSC-15	Economic Thoughts Dr. B.R Ambedkar (4),			
	DSC 16	Economics of Environment (4);			
	DSE-E2 (Choose Anyone) (3)	1)Industrial Economics 2)Labour Economics 3)Factor Pricing and Welfare Economics 4) Economics of Non-Farm Sector			

A1: Curriculum and Credit Framework for the BA Program with two core subjects without practicals in the first two years and one Major (Economics) in the third year

Sem. No.	Course Category	Course Code	Course Title	Credits Assigned	Instructional hours per week		Duration of Exam (Hrs.)	Exam/ Evaluation Pattern (Marks)		
					Theory	Practical		IA	Exam	Total
V	DSC	ECO C9	Public Economics	4	4		2.3	40	60	100
		ECO C10	Development Economics	4	4		2.3	40	60	100
		ECO C11	Human Resource Management	4	4		2.3	40	60	100
		ECO C12	Indian Banking and Finance	4	4		2.3	40	60	100
	DSE	ECO E1 (Anyone to be chosen)	A. Economics of GST B. Economics of Insurance C. Rural Economics D. Economics of Marketing	3	3		2.3	40	60	100
	Vocational	ECO V1 (Anyone to be chosen)	A. Entrepreneurial Economics B. Digital Economics C. Economics of Dairy Farming	2+1	2	1	2.3	50	50	100
VI	DSC	ECO C13	International Economics	4	4		2.3	40	60	100
		ECO C14	Indian Public Finance	4	4		2.3	40	60	100
		ECO C15	Economic Thoughts of Dr.B.R Ambedkar	4	4		2.3	40	60	100
		ECO C16	Economics of Environment	4	4		2.3	40	60	100
	DSE	ECO E2 (Anyone to be chosen)	A. Industrial Economics B. Labour Economics	3	3		2.3	40	60	100
			C. Factor Pricing and Welfare Economics D. Economics of Non-Farm Sector				2.3			
	Vocational	ECO V2 (Anyone to be chosen)	A. Micro Entrepreneurs Development B. Project, Planning & Management	2+1	2	1	2.3	50	50	100

A1 Curriculum and Credit Framework for the B.Sc Program with two core subjects without practical in the first two years and one Major (Economics) in the third year

Sem	Discipline Specific - Core (DSC), Elective (DSE) Courses (Credits) (L+T+P)		Vocational Courses(Credits) (L+T+P)	Skills Enhancement Courses (SEC) (Credits) (L+T+P)/Value Added Courses (Credits) (L+T+P) (common for all UG Programs)/	Total Credits
V	DSC - 9	Introduction to R Software	Vocational -1(3)	SEC-4: Cyber Security (2)/ Soft skills and Communication Skills (1+0+2)	24
	DSC - 10	Public Economics	Economics of Tourism Development		
	DSC - 11	Development Economics			
	DSC- 12 A	Indian Banking and Finance			
	DSE-E1, (Choose Anyone) (3)	A. Experimental Economics B. Economics of Artificial Intelligence			
VI	DSC- 13	Actuarial Economics	Vocational-2(3), Choose One	SEC-5: General Aptitude (2) (1+0+2) / Internship (2)	24
	DSC -14	Indian Public Finance	1. Micro Entrepreneurs Development 2. Project, Planning & Management		
	DSC-15	International Economics			
	DSC 16	Economics of Environment			
	DSE-E2 (Choose Anyone) (3)	A. Economics of Information B. Methods of Data Analysis C. Game theory D. Operational Research in Economics			

A1: Curriculum and Credit Framework for the B.Sc Program with two core subjects without practicals in the first two years and one Major (Economics) in the third year

Sem. No.	Course Category	Course Code	Course Title	Credits Assigned	Instructional hours per week		Duration of Exam (Hrs.)	Exam/ Evaluation Pattern (Marks)		
					Theory	Practical		IA	Exam	Total
V	DSC	ECO C9	Introduction to R Software	4	4		2.3	40	60	100
		ECO C10	Public Economics	4	4		2.3	40	60	100
		ECO C11	Development Economics	4	4		2.3	40	60	100
		ECO C12	Indian Banking and Finance	4	4		2.3	40	60	100
	DSE	ECO E1 (Anyone to be chosen)	A. Experimental Economics B. Economics of Artificial Intelligence	3	3		2.3	40	60	100
	Vocational	ECO V1 (Anyone to be chosen)	Economics of Tourism Development	2+1	2	1	2.3	50	50	100
VI	DSC	ECO C13	Actuarial Economics	4	4		2.3	40	60	100
		ECO C14	Indian Public Finance	4	4		2.3	40	60	100
		ECO C15	International Economics	4	4		2.3	40	60	100
		ECO C16	Economics of Environment	4	4		2.3	40	60	100
	DSE	ECO E2 (Anyoneto be chosen)	A. Economics of Information B. Methods of Data Analysis C. Game theory Operational Research in Economics	3	3		2.3	40	60	100
	Vocational	ECO V2 (Anyoneto be chosen)	A. Micro Entrepreneurs Development B. Project, Planning & Management	2+1	2	1	2.3	50	50	100

A3: Undergraduate Programme with two core subjects without practical's in the first two years and two Major (one of the major is Economics, out of two Major Subjects) in the third year.

A3. Curriculum and Credit Framework for BA Programme with two core subjects without practicals in the first three years.

Sem.	Discipline Specific - Core (DSC), DSC1: Economics		Discipline Specific Core DSC2: Pol.Sc or Hist or Soci	Skills Enhancement Courses (SEC)/ (Value Added Courses for all UG Programs)	Total Credits
V	DSC-9	Public Economics (4),	DSC- B9(4), DSC- B10(4), DSC- B11(4),	SEC-4: Cyber Security (2)/ Soft skills and Communication Skills (1+0+2)	26
	DSC 10,	Dept. Economics(4),			
	DSC 11	HRM (4),			
VI	DSC- 12	Indian Banking Finance (4)	DSC-B12(4), DSC- B13(4), B14(4),	SEC-5: General Aptitude (2) (1+0+2) / Internship (2)	26
	DSC-13	International Economics (4),			
	DSC-14	Indian Public Finance (4),			

A3: Curriculum and Credit Framework for the BA Program with two core subjects without practicals in the first three years

Sem. No.	Course Category	Course Code	Course Title	Credits Assigned	Instructional hours per week		Duration of Exam (Hrs.)	Exam/ Evaluation Pattern (Marks)		
					Theory	Practical		IA	Exam	Total
V	DSC	ECO C9	Public Economics	4	4		2.3	40	60	100
		ECO C10	Development Economics	4	4		2.3	40	60	100
		ECO C11	Human Resource Management	4	4		2.3	40	60	100
VI	DSC	ECO C12	Indian Banking and Finance	4	4		2.3	40	60	100
		ECO C13	International Economics	4	4		2.3	40	60	100
		ECO C14	Indian Public Finance	4	4		2.3	40	60	100

A3. Curriculum and Credit Framework for B.Sc Programme with two core subjects without practicals in the first three years.

Sem.	Discipline Specific - Core (DSC), DSC1: Economics		Discipline Specific Core DSC2: Pol.Sc or Hist or Soci	Skills Enhancement Courses (SEC)/ (Value Added Courses for all UG Programs)	Total Credits
V	DSC-9	Introduction to R Software (4)	DSC- B9(4), DSC- B10(4), DSC- B11(4),	SEC-4: Cyber Security (2)/ Soft skills and Communication Skills (1+0+2)	26
	DSC 10	Public Economics (4)			
	DSC 11	Development Economics(4)			
VI	DSC- 12	Indian Banking and Finance (4)	DSC-B12(4), DSC- B13(4), B14(4),	SEC-5: General Aptitude (2) (1+0+2) / Internship (2)	26
	DSC-13	Actuarial Economics (4)			
	DSC-14	Indian Public Finance (4)			

A3: Curriculum and Credit Framework for the B.Sc Program with two core subjects without practicals in the first three years

Sem. No.	Course Category	Course Code	Course Title	Credits Assigned	Instructional hours per week		Duration of Exam (Hrs.)	Exam/ Evaluation Pattern (Marks)		
					Theory	Practical		IA	Exam	Total
V	DSC	ECO C9	Introduction to R Software	4	4		2.3	40	60	100
		ECO C10	Public Economics	4	4		2.3	40	60	100
		ECO C11	Development Economics	4	4		2.3	40	60	100
VI	DSC	ECO C12	Indian Banking and Finance	4	4		2.3	40	60	100
		ECO C13	Actuarial Economics	4	4		2.3	40	60	100
		ECO C14	Indian Public Finance	4	4		2.3	40	60	100

Formative Assessment

Pedagogy: Classroom lectures, tutorials, Problem-solving exercises, seminars, presentations, activities, group discussions, field visits, project work, etc.,

Formative Assessment	
Assessment Occasion/ type	Weightage in Marks
Internal Test	50%
Assignment	20%
Presentation/Project	30%
Total	100
<i>Formative Assessment as per NEP guidelines are compulsory</i>	

Note: Strictly follow the Practicum

Pedagogy; Evaluation process IA MARKS

FORMATIVE ASSESSMENT			
	C1	C2	Total
Assessment Occasion/type			
Internal Test	10	10	20
Assignment/seminar	5	-	05
Quiz/GD	5	-	05
Presentation/Project etc	-	10	10
Total	20	20	40
Semester End Exam Theory			60

Note: Strictly follow the Practicum

Question Paper Pattern for 60 Marks for BA/B.Sc. in Economics (DSC, DSEC & OEC)

Section A

Section A (objective type/multiple choice)

Answer any ten of the following out of 12 questions (1X10 = 10),

1.

- a)
- b)
- c)
- d)
- e)
- f)
- g)
- h)

- i)
- j)
- k)
- l)

Section B (Questions for testing the knowledge of theories and application)

Answer any **six** of the following out of 8 questions (5X6=30)

- 2.
- 3.
- 4.
- 5.
- 6.
- 7.
- 8.
- 9.

Part C (Questions for testing the critical ability of understanding)

Answer any two of the following out of 4 questions (10 X2=20)

- 10.
- 11.
- 12.
- 13.

**BA Honours
in
Economics**

5th & 6th Semester

BA–ECONOMICS
Vth SEMESTER

Program Name	BA in Economics	Semester	Fifth Semester
Course Title	Public Economics		
Course Code:	ECO C9	No. of Credits	4
Contact hours	60 Hours	Duration of SEA/Exam	2 hours
Formative Assessment Marks	40	Summative Assessment Marks	60

Course Outcomes (COs): After the successful completion of the course, the student will be able to:

CO1. Understand introductory Public Finance concepts.

CO2. Study the causes of market failure and corrective actions

CO3. Understand the impact, incidence and shifting of tax

CO4. Study the Economic Effects of tax on production, distribution and other effects

CO5. Enable the students to know the Principles and Effects of Public Expenditure

CO6. Understand the Economic and functional classification of the budget; Balanced and Unbalanced budget

CO7. Understand the Burden of Public debt and know the Classical/ Ricardian views, Keynesian and post-Keynesian views

CO8. To acquaint with the advantages and disadvantages of Deficit Financing,

MODULES	DESCRIPTION	60 Hours
Module I	Introduction to Public Economics	15
	Public Economics: Meaning, definitions, Scope and Significance, Public Finance and Private Finance: Meaning, and Distinction; Public good and private good: Meaning, Characteristics, and Distinction, Principle of Maximum Social Advantage, Market Failures: Meaning, causes-role of externalities; Market failure and role of government; Corrective actions.	
Practicum	Group Discussions on Public Finance and private finance; public good and private good Assignment on Market failure and government intervention	
Module II	Public Revenue and Public Expenditure	18
	Meaning and sources of revenue; Taxation –Cannons of taxation, Characteristics of a sound tax system, Impact, Incidence- Division of Tax burden, Shifting of tax, Economic Effects of tax on production, distribution and other effects, Progressive and Regressive, Proportional Tax, Direct and Indirect Taxes –Merits and Demerits, Taxable Capacity: Meaning and determinants. Public Expenditure; Meaning, classification, principles, Types & Cannons, Reasons for the growth of public	

	expenditure, Wagner's law of increasing state activities, Peacock-Wiseman hypotheses, Effects of public expenditure: Production, Distribution & Other effects	
Practicum	Mini-project/study to ascertain the impact of GST on retailers/wholesalers in your vicinity A case study on the taxable capacity of the different sections of society in the vicinity Assignment on Effects of public expenditure: Production, Distribution & Other Effects	
Module III	Public Debt	12
	Public Debt: Meaning, Purpose, Types & Effects; Sources of Public Borrowing; Burden of Public Debt -Classical/ Ricardian views, Keynesian and post-Keynesian views; Intergenerational equity of public debt; Causes of the Rise in Public Debt; Methods of debt redemption; Debt management.	
Practicum	Studying the burden of public debt through a project/ case study Assignment on Debt Management	
Module IV	Public Budget, Fiscal Policy and Fiscal Deficit	15
	Budget: Meaning, process & Types of budget, Economic and functional classification of the budget; Balanced and unbalanced budget, Types of Budget Deficits; Fiscal Policy: Meaning, objectives & Tools; Fiscal deficit: Meaning, Computation, Deficit Financing: Meaning, Advantages and Disadvantages	
Practicum:	Calculation of various types of budget deficit using the budget data Group discussion on the advantages and disadvantages of deficit financing	

References	
1	Lekhi R.K., Joginder Singh (2018) Public Finance, Kalyani publication, New Delhi
2	Tyagi B.P. (2014) Public Finance published by Jaya Prakash Nath and CO, Meerut
3	Hindriks J. and G. Myles (2006): Intermediate Public Economics, MIT Press.
4	Bhatia H L (2018): Public Finance. Vikas Publishing House.
5	Musgrave, R.A. (1989), The Theory of Public Finance, McGraw Hill
6	Musgrave, R.A. and P.B. Musgrave (1989), Public Finance in Theory and Practice, McGrawHill,

BA–ECONOMICS Vth SEMESTER

Program Name	BA in Economics	Semester	Fifth Semester
Course Title	Development Economics		
Course Code:	ECO C10	No. of Credits	4
Contact hours	60 Hours	Duration of SEA/Exam	2 Hours
Formative Assessment Marks	40	Summative Assessment Marks	60

Course Outcomes (COs): After the successful completion of the course, the student will be able to:

- CO1. Understand the basic concepts and measurements of Development.
- CO2. Learn some classical and partial theories of Development economics and identify the difference.
- CO3. Identify the difference between Developed and Developing Countries.
- CO4. Analyse and tackle the Development issues effectively.

MODULES	DESCRIPTION	60 Hrs
Module 1	Introduction to Economic Development	14
	Concept - Definitions - Distinction between Economic Growth and Development - Indicators of Growth and Development, Measures of Economic Development: Gross National Product (GNP) - Physical Quality of Life Index (PQLI), Human Development Index (HDI), Happiness Index, Inequality and Poverty: Meaning, causes, indicators – Gini Coefficient Index, Human Poverty Index (HPI).	
Practicum:	Assignment on various indicators of growth and development Group discussions about the characteristic features of different countries and their development levels	
Module 2	General Theories of Economic Growth and Development	16
	Adam Smith's Theory, David Ricardo's Theory, T.R. Malthus' Theory, Karl Marx's Theory, Schumpeter's Theory and Rostow's Growth Theory - Harrod-Domar Model.	
Practicum:	Assignment on different theories and their relevance to developing Countries, Debate on present stage of India's growth and estimated stage it may reach by 2047	
Module 3	Partial Theories of Economic Development	16
	Lewis Labour Surplus Model - Rodan's Big Push Theory - Lieberstein's Critical Minimum Effort Approach - Balanced Vs. Unbalanced Growth, Factors in the Development Process Capital Accumulation - Capital-Output Ratio - Technology and Economic Development.	

Practicum:	Group Discussion on Balanced and unbalanced growth strategies in Developed and developing countries Assignment on the Factors in the Development Process Capital Accumulation	
Module 4	Sustainable Development	14
	Inclusive Development - Millennium Development Goals - Sustainable Development Goals, Targets and Achievements with reference to India.	
Practicum	Seminar on MDGs and SDGs and the challenges	

References	
1	Higgins Benjamin & W.W. Norton Economic Development New York & Company.Inc.
2	Mishra S.K and Puri V.K, Economic Development and Planning, Himalaya Pub., House, Mumbai.
3	Taneja M.L. and Meier G. M, Economics of Development and Planning, S. Chand and Co, Delhi.
4	Thirlwall A.P. Growth and Development: With Special Reference to Developing Economies, Palgrave Macmillan, New York.
5	Todoaro. M.P & Orient Longman Economic Development in the Third World, United Kingdom
6	Sustainable Development Reports

BA–ECONOMICS
Vth SEMESTER

Program Name	BA in Economics	Semester	Fifth Semester
Course Title	Economics of Human Resource Management		
Course Code:	ECO C11	No. of Credits	4
Contact hours	60 Hours	Duration of SEA/Exam	2 Hours
Formative Assessment Marks	40	Summative Assessment Marks	60

Course Outcomes (COs): After the successful completion of the course, the student will be able to:

- CO1. Understand the meaning, nature, scope and value of the contemporary approach to human resource management with reference to Economics.
- CO2. To describe an organisation of a human resource management functionary in an establishment, and to identify attributes of a successful personnel manager.
- CO3. To impart knowledge and techniques in human resource planning, Job-Analysis, and Job-Design.
- CO4. To explain various methods of recruitment, selection, induction and placement.
- CO5. To develop the importance and methods adopted for training and development of employees in two days environment in the workplace.

MODULES	DESCRIPTION	60 Hours
Module I	Introduction to Human Resource Management	15 hrs
	Human Resource Management: Concept, Nature, scope, objectives, importance, functions of Human Resource Management with reference to Economics; Organization of personnel department, Qualities of Personnel Manager, role of Personnel Manager, Status of Personnel Manager; Characteristics of a Human Resource Manager, HRD - Responsibility of managers.	
Practicum	Group Discussions on Human Resource Management as a Profession. Assignment on Qualities of Personnel Manager	
Module II	Procurement of Human Resources	15 hrs
	Human Resource Planning – Concept and objectives, importance, process, problems and guidelines; Job Design and Analysis: Concept, process, job description and job specification; Recruitment and Selection Meaning and process of recruitment, recruitment policy and organization, sources and techniques of recruitment, meaning and process of selection.	
Practicum	Assignment on recruitment and selection Group discussion on Techniques of Recruitment	
Module III	Training and Job Evaluation	15 hrs

	Training: Concept, objectives, importance; identifying training needs. Designing training programmes, methods of training, evaluating training effectiveness, retraining Concept, process and objectives of job evaluation, advantages and limitations, essentials of successful job evaluation, methods of job evaluation, Wage and Salary Administration. Objectives and principles, essentials of sound wage structure, factors affecting wages, methods of wage payment, and wage policy in India, executive compensation.	
Practicum	Project on training and job evaluation	
Module IV	Performance Appraisal	15 hrs
	Performance appraisal: Concept, objectives, uses, process, problems, essentials, methods and techniques, appraisal, interview, Transfers, promotions and separations. Purpose of job changes, concept and objectives of transfers. Types of transfer, transfer policy, concept and basis of promotion, promotion policy, demotion, types of separations.	
Practicum	Seminar on transfers and promotions Group discussion on Performance appraisal	

References	
1	Koontz, Weirich & Aryasri, (2004) Principles of Management , Tata McGraw-Hill, New Delhi,.
2	Tripathi & Reddy, (2008) Principles of Management , Tata McGraw-Hill, New Delhi, Laurie
3	Meenakshi Gupta, (2009) Principles of Management , PHI Learning, New Delhi,
4	Gupta (2016), Human resource Management . S Chand Publisher. new delhi
5	Aswathappa K. (2020) Human resource Management , Tata Mc Graw Hill Publishing Co. Ltd.
6	Prasad L. M, (2017) Organisational Behaviour , S. Chand Publishers, New Delhi.

BA–ECONOMICS
Vth SEMESTER

Program Name	BA in Economics	Semester	Fifth Semester
Course Title	Indian Banking and Finance		
Course Code:	ECO C12	No. of Credits	4
Contact hours	60 Hours	Duration of SEA/Exam	2 Hours
Formative Assessment Marks	40	Summative Assessment Marks	60

Course Outcomes (COs): After the successful completion of the course, the student will be able to:

- CO1. Understand the structure of Indian banking and the role of banks in monetary policy.
- CO2. Analyze the functioning of banks and different types of accounts and other services offered by banks.
- CO3. Evaluate recent developments in the Indian banking sector, including digital banking, payment banks, and non-performing assets.
- CO4. Describe the overview of the Indian financial system, including financial markets, financial instruments, and financial regulation.
- CO5. Analyze the challenges faced by Indian banks and the implications of banking reforms for the Indian economy.
- CO6. Develop critical thinking and analytical skills in evaluating various financial products and services banks and capital markets offer.

MODULES	DESCRIPTION	60 Hours
Module I	Introduction to banking: India	15
	Indian Banks: Evolution, structure, functions, types and features- Public sector, private sector, foreign, Cooperative, RRB, Small finance banks, payment banks; Role and importance of banks in the Indian economy; Credit creation and financial intermediation; Central Bank and banking regulation; Regulatory and supervisory powers; Monetary policy and banking channel of credit control; Policy rates and banking; repo, reverse repo, MCLR, Bank rate, CRR, SLR, MSF; Issues in banking sector; NPA crisis; impact of global events on Indian banks.	
Practicum	Compare and contrast the different types of banks, highlighting their strengths and weaknesses- Presentation. Conduct a class discussion and compare and contrast the different scenarios on various loans, highlighting the risks involved and the measures taken by banks to manage these risks.	
Module II	Banking services	15

	Banking services: Bank deposits; Types and features of bank accounts; account opening and importance of KYC; Bank loans; types, features, documents required; eligibility, interest rates, maturity, loan default and consequences; Other services: Locker facility, payment and remittance services and channels; currency exchange; debit cards, credit cards, pre- paid cards; ATMs; internet and mobile banking; Modern banking products: Insurance on deposits and loans, Investment services in capital market- stocks, bonds and mutual funds; advisory services; retirement products.	
Practicum	Group discussion on bank accounts and loan products and making recommendation to different classes Comparison of banking services by visiting bank branches	
Module III	Modern Banking	15
	Modern banking facilities; Digital banking; Digital Wallets; Digital account opening; Biometrics; contact less payment system; instant payments; personal finance management tools; Use of artificial intelligence and machine learning in banks; Cyber security in banking; Credit scoring; Direct lending; Corporate banking; Investment Banking	
Practicum:	Survey bank customers to understand their usage and satisfaction levels with digital banking services. Analyze the adoption rates of digital banking services across different age groups and demographic segments	
Module IV	Financial Market	15
	Introduction to Indian financial markets; Equity markets and stock exchanges; Debt markets and bond markets; Currency markets and forex trading; Commodity markets and trading; Derivatives markets; Mutual funds; Insurance products Investing in capital market products- access, channels; risk in capital market investments; Role of SEBI, Fintech and innovation in capital markets;	
Practicum	Debate: Investing in capital market products. Assignment on Indian financial markets	

References	
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2	RBI (2022) report on the trend and Progress of Banking in India
3	Pathak, B. V. (2018). Indian financial system. Pearson Education
4	Principles and Practices of Banking (2023), Indian Institute of Banking & Finance (IIBF), MacMillian
5	Shekhar, K. C. & Shekhar, L. (2013). Banking Theory and Practice, 21st Edition
6	Taxman's Digital Banking, Indian Institute of Banking & Finance (IIBF), Bharati Law House
7	Reserve Bank of India. (2017). Basic Financial Literacy Guide.

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8	Securities and Exchange Board of India. (2021). Handbook of Statistics on Indian Securities Market. https://www.sebi.gov.in/reports-and-statistics/publications/dec-2022/handbook-of-statistics-2021_66158.html
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BA–ECONOMICS
Vth SEMESTER

Program Name	BA in Economics	Semester	Fifth Semester
Course Title	Economics of GST		
Course Code:	ECO E1A	No. of Credits	3
Contact hours	45 Hours	Duration of SEA/Exam	2 Hours
Formative Assessment Marks	40	Summative Assessment Marks	60

Course Outcomes (COs): After the successful completion of the course, the student will be able to:

- CO1. Understand the indirect tax structure in India and challenges
- CO2. Develop an informed view on the rationale of choosing Goods and Services Tax.
- CO3. Understand the GST laws, tax slabs, GST council and the framework of implementation
- CO4. Demonstrate ability to explain time of supply, place of supply and value of supply
- CO5. Analyze the concept of input tax credit and valuation of supply with examples
- CO6. Explain the GST registration process and GST filing procedure

MODULES	DESCRIPTION	45 Hours
Module I	Indirect Taxes and GST	15
	Indirect taxation before GST- Introduction to Indirect Taxes: Meaning and Features, Types of Indirect Taxes in India: Excise Duty, VAT, Service Tax, etc., VAT types and methods, Drawbacks of the existing Indirect Tax System; Introduction to Goods and Services Tax, Rationale and Key Features for GST, Experience from uniform tax structure in other countries, Advantages and disadvantages of GST framework	
Practicum:	Discussions on the limitation of tax structure before introduction of GST. Assignments on GST tax collection since introduction at state-level Explain the differences between the old tax system and GST, and how the GST system has impacted the economy of India.	
Module II	Fundamentals of GST	15
	Structure of GST in India- Central GST, State GST, UTGST; Integrated GST, Subsuming of Taxes, GST Rate Structure in India; Levy and Collection of GST, Discussion on definition of goods, service, supply: Supply under GST and types of supply: taxable, exempt, zero-rated, and non-taxable, Time of supply, place of supply and valuation of supply: transaction value, open market value, and other methods, Input tax credit with illustration.	
Practicum:	Identify the different types of supply and the valuation methods used under GST for a specific product. Assignment on computing the value of supply or input tax credit for a given scenario and explain how the time and place of supply affect the tax liabilities under GST	
Module III	GST Compliance	15

	GST framework- GST Registration: eligibility, procedure, and threshold limits, exemptions, GST Returns: types, due dates, and penalties, GST Payment; GST Audit; GST Refund: eligibility, procedure, and time limits, GST Council- Structure, objectives, functions, decisions, GST Network; GST & Indian Economy- Compensation to states- Trends of GST collection in India- national level and state level- Challenges and compliance, impact of GST on Economic growth.	
Practicum	Demonstrate GST registration process for different types of business or GST returns filing procedure Assignment of trends and progress in GST collection in India	

References	
1	Mehrotra, H.C. & Agarwal V. P, (2022), Goods and Services Tax, Shaitya Bhawan Publications
2	Balachandran, V. (2023), Textbook of GST & Customs Law, Sultan Chand & Sons
3	Datey, V. (2023). Taxmann's GST Ready Reckoner (2020), Taxmann Publications Pvt. Ltd.
4	Singhania, V.K; Students Guide to GST & Customers Law, Taxmann Publication (P) Ltd
5	Agrawal, R. K. (2023). Bharat's Handbook on G.S.T. (Goods & Service Tax) for May 2023 Exam. Mumbai, India: Bharati Law House.
6	Ahuja, G., & Gupta, R. (2019). Systematic Approach to Income Tax. New Delhi, India: Wolters Kluwer India Pvt Ltd.
7	Central GST Act (2017), Central Board of indirect Taxes and Customs
8	Integrated GST Act (2017), Central Board of indirect taxes and Customs
9	Union Territory GST Act (2017), Central Board of indirect taxes and Customs
10	GST (Compensation to States Act), 2017

BA–ECONOMICS Vth SEMESTER

Program Name	BA in Economics	Semester	Fifth Semester
Course Title	Economics of Insurance		
Course Code:	ECO E1B	No. of Credits	3
Contact hours	45 Hours	Duration of SEA/Exam	2 Hours
Formative Assessment Marks	40	Summative Assessment Marks	60

Course Outcomes (COs): After the successful completion of the course, the student will be able to:

- CO1. Gain knowledge on economics of insurance
- CO2 Understand the Insurance Planning
- CO3. Understand the essential and fundamentals of Life and Health Insurance

MODULES	DESCRIPTION	45 Hrs
Module I	Introduction to Economics of Insurance	15
	Definition of insurance, Scope of economic of insurance, Importance of insurance, Brief history of insurance, Perils and risks in insurance, Classification of risks hazards; How insurance works, Classes of insurance and assumptions, Risk pooling and risk transfer in insurance, Social vs. private insurance, Life vs. non-life insurance	
Practicum:	Identify how insurance works and analyse risk pooling and risk transfer in insurance Assignment on importance of insurance and risks in insurance	
Module II	Insurance Planning	15
	Types of Insurance Planning- Wealth accumulation plan lifecycle planning, Planning for wealth accumulation, Tax advantage and tax non-advantage; Retirement Planning - Essential of individual retirement planning, Investing pension plan, basic principles of pension plans, Pension plans in India; General Insurance Structure - General Insurance, concept of General Insurance, Types of General Insurance, Marine Insurance, Motors Insurance, Agricultural Insurance, Fire Insurance, Personal Accident Insurance.	
Practicum:	Compare and contrast the different types of Insurance Planning, highlighting their strengths and weaknesses. Assignment on types of general Insurance	
Module III	Personal insurance / Health Insurance	15
	Essential of Life and Health Insurance- Fundamentals of Life and Health Insurance, functions of Life and Health Insurance, Health Insurance and Economic Development, Insurance and Farmer Security; Insurance Documentation - Health Insurance products, Health Insurance underwriting, Health Insurance claims ; Insurance Legislation - The insurance act, 1938- Registration- Accounts and	

	Returns, Investments, Limitation on expense of Management, Regulation of Insurance, Insurance regulation in India, role and need of regulation, history of insurance regulation in India, Insurance Reforms Development Authority (IRDA), performance of IRDA, Indian Insurance in global platform, future potential in Indian Insurance Business.	
Practicum	Conduct a survey to know the knowledge about life and health insurance in the neighbourhood Assignment on performance of IRDA	

References	
1	Chambers, R. (1983): Rural Development: Putting the Last First, Longman, Harlow.
2	Dandekar, V.M. and N. Rath (1971): Poverty in India, GIPE, Pune
3	Dantwala, M. L. (1973): Poverty in India: Then and Now, 1870-1970, Macmillan, Bombay.
4	Gupta. K .R. (Ed) (2003): Rural Development in India, Atlantic Publishers and Distributors, New Delhi.
5	Jain, Gopal Lal (1997): Rural Development, Mangal Deep Publications, Jaipur,
6	Singh, Katar (1986): Rural Development: Principles, Policies and Management, Sage Publications, New Delhi, (Second Edition).
7	Karalay, G. N. (2005): Integrated Approach to Rural Development: Policies, Programmes and Strategies, Concept Publishing Company, New Delhi.
8	Maheshwari, S. R. (1985): Rural Development in India, Sage, Publications New Delhi
9	Satya Sundaram, I. (1997): Rural Development, Himalaya Publishing House, Delhi.
10	Mehta, Shiv R. (1984): Rural Development Policies and Programmes, Sage Publications, New Delhi.
11	Tyagi, B. P. (1998): Agricultural Economics and Rural Development, Jai Prakash Math and Co., Meerut

BA–ECONOMICS Vth SEMESTER

Program Name	BA in Economics	Semester	Fifth Semester
Course Title	Rural Economics		
Course Code:	ECO E1C	No. of Credits	3
Contact hours	45 Hours	Duration of SEA/Exam	2 Hours
Formative Assessment Marks	40	Summative Assessment Marks	60

Course Outcomes (COs): After the successful completion of the course, the student will be able to:

- CO1. Understand the meaning, concepts, objectives, nature, feature and scope of Rural Economics
- CO2. Know the various indicators and their Measurement of Rural development.
- CO3. Understand the policies and strategies of rural development.
- CO4. Understand the rural Natural Resources, Rural income and Rural poverty and indebtedness

Modules	DESCRIPTION	45 Hours
Module I	Introduction to Rural Economy	15
	Rural Economics- Definition, Meaning, Objectives, Nature and Scope; Need, Causes and consequences of the Rural Economy; Pattern, Characteristics and Importance of Rural Economy	
Practicum	Assignment on Characteristics and importance of Rural Economy Survey to know the characteristics of rural economy in the neighborhood	
Module II	Measurement, Policies and Strategies of Rural Development	15
	Introduction to measurement of Rural Development – Objectives of measurement of rural development Indicators of Measurement of Rural development: Poverty, GNP per capita, distribution of Income, Per capita rural expenditure, PQLI, Income inequality; Importance and Need for Rural Development Policies - Freedom, Control and Public Policy - Goals of Rural Development Policy - Hierarchy of Policy Goals - Rural Development Policies. Strategies of Rural Development: Growth Welfare, Responsive Oriented and Integrated or Holistic Strategy - Liberalization and Rural Development	
Practicum	Undertake evaluation study on rural development programmes and prepare an assignment. Field visit to nearby village and study the employment opportunities and present situation	
Module III	Rural Resources Rural Income, Poverty and Indebtedness	15
	Natural Resources: Land, Water, Mineral and Forest Resources. Utilization and Potential: Capital and Human Resources - Levels of Technology; Rural Income: Sources of Household Income - Contributions of Agriculture and Allied Activities to National Income - Animal Husbandry - Income Differences between Rural and Urban Sectors - Problems of Rising Rural Incomes. Rural Poverty: Causes and Consequences - Rural Credit:	

	Magnitude of Rural Credit - Multi-Agency Approach to Rural Credit. Rural Indebtedness: Extent of Rural Indebtedness - Nature of Indebtedness -Causes of Rural Indebtedness - Effects of Indebtedness – Government Measures	
Practicum	Debate on Problems of Rising Rural Income Assignment on Causes and consequences of Rural Poverty	

References	
1	Agarwal A N and Singh S P, The Economics of Under Development, OUP, New Delhi.
2	Dalip S Thakur, Poverty, Inequality and Unemployment in Rural India, B R Pub., Corporation, Delhi.
3	Ekans Richard S and K S Parikh, Planning and Growth: Multi-sectoral, Inter-temporal Models Applied to India, The MIT Press, Massachusetts.
4	Higgins Benjamin, Economic Development: Principles, Problems and Policies, Central Book Depot, Allahabad.
5	Jain Gopal Lal, Rural Development, Mangal Deep Publications, Jaipur
6	Katar Singh, Rural Development: Principles, Policies and Management, Sage Publications, New Delhi.
7	Parthasarathy G – Economic Reforms and Rural Development
8	Satya Sundaram I, Rural Development, Himalaya Publishing House, New Delhi.

BA–ECONOMICS Vth SEMESTER

Program Name	BA in Economics	Semester	Fifth Semester
Course Title	Economics of Marketing		
Course Code:	ECO E1D	No. of Credits	3
Contact hours	45 Hours	Duration of SEA/Exam	2 Hours
Formative Assessment Marks	40	Summative Assessment Marks	60

Course Outcomes (COs): After the successful completion of the course, the student will be able to:

- CO1. To understand the basics concepts of marketing and asses the marketing environment.
- CO2. Analyze the issues in rural markets.
- CO3. To study rural consumers behaviors.
- CO4. Outline the recent development in the field of marketing.

Modules	DESCRIPTION	45 Hours
Module I	Introduction of Marketing	15
	Marketing: Definition, Meaning, Nature & Scope, Objectives, Importance, Marketing & Selling, Concept and Importance of Market Segmentation, Role of Marketing in Economic Development, Modern Marketing.	
Practicum	Seminar on the Role of Marketing in Economic Development Assignment on Modern Marketing	
Module II	Consumer Behavior and Rural Marketing	15
	Consumer Behavior: Nature, Importance, buying Decision, Factors influencing consumer buying behaviours. Rural Consumers Behavior: Nature, importance, Characteristics, Influencing Factors. Rural Marketing: Meaning, Definition, Nature & Scope, Features, Importance, Types. Problems and Remedies of Rural Market: Co-Operative Marketing Societies, Importance of Regulated Market	
Practicum	Survey consumers to Know the factors influencing their buying Behavior. Debate on best remedies to solve the problem of rural market.	
Module III	E-Marketing and Service Marketing	15
	E-Marketing: Meaning, Concept, Advantages & Disadvantages, Challenges. Types – Digital, Mobile Marketing, Online, social media - Meaning, Concept, Benefits, Importance, Challenges, Advantages & Disadvantages Service Marketing: Meaning, Concept, and Difference between the marketing of goods Vs Service Marketing, Importance, Problems.	
Practicum	Analyse the adoption of E-Marketing across different types of demographic segments. Debate on Advantages & Disadvantages of e -marketing	

References	
1	Philip Kotler (2015), Principles of Marketing. 13th edition. Pearson Education.
2	Saxena Rajan, (2017) Marketing Management, Tata McGraw-Hill Publishing Company Ltd.,New Delhi. Fifth Edition.
3	Kumar Arun & MeenakshiN (2016), Marketing Management, Vikas Publishing House Pvt. Ltd., New Delhi. Third Edition
4	Panda Tapan (2008), Marketing Management, Excel books, New Delhi, Second Edition.
5	Chhabra, T.N., and S. K. Grover. Marketing Management. Fourth Edition.
6	Marketing Management- A South Asian Perspective-15e – Pearson, Philip Kotler, Kevin Keller,
7	Abraham Koshy, Mithileshwar Jha 7 Principles of Marketing-13e Pearson- Philip Kotler, Gary Armstrong, Prafulla Agnihotri, Ehasanul
8	Haque Marketing Management: Indian Context-Global Perspective, Ramaswamy and Namakumari, sixth edition, SAGE Publication
9	Valarie A Zeithmal & Mary Jo Bitner, Dwayne D. Gremler and Ajay Pandit, 7/e, McGH, (2018) Service Marketing, Integrating Customer Focus Across the Firm.
10	Valarie A Zeithmal & Mary Jo Bitner, 5/e, (2011) e-Marketing-TMH.

BA–ECONOMICS
Vth SEMESTER

Program Name	BA in Economics	Semester	Fifth Semester
Course Title	Entrepreneurial Economics		
Course Code:	ECO V1A	No. of Credits	2+1
Contact hours	30+30 Hours	Duration of SEA/Exam	2 Hours
Formative Assessment Marks	50	Summative Assessment Marks	50

Course Outcomes (COs): After the successful completion of the course, the student will be able to:

- CO1: Acquire the operational procedures knowledge of entrepreneurship
- CO2. To know how to Start your own business as a young Entrepreneur
- CO3. Enabling the students to find various procedures of operations of the business.

MODULES	DESCRIPTION	60 Hrs
Module I	Entrepreneurship and Launching Business	15
	Entrepreneur and Entrepreneurship – Issues of considering for Entrepreneurship, identifying business opportunity and choosing right business, Plan a new entrepreneurship- create a business plan- contents of Business plan- marketing plan-operational plan- financial plan-risk analysis and risk management plan. Choose a business structure, Setting Business Entity & incorporation of the company, Formulation of Memorandum of Association (MOA), Formulate Article of Association (AOA), approving stamp and sign of Business Entity. Registering for e-filing, Applying for Director Identification Number (DIN), Digital Signature Certificate (DSC), and Permanent Account Number (PAN).	
Practicum	Identify career opportunities in business and create a Business Plan Demonstration on Registering for e-filing Assignment on Formulation of Memorandum of Association (MOA)	
Module II	Procedure for Start-up Business	15
	Operational Procedures- Get Government of India, State Government (Karnataka) and Local Government tax IDs, -Apply for all concerned licenses and permits, - Open a business bank current account, - Apply for Business Insurance, - Appraisal of Technical Feasibilities, Economic and Financial viability - Bottom line.	
Practicum	Identify the and write a small report on procedure to open a business bank current account and applying for business Insurance	
Experiential Learning/ Practicum	Visit a Startup/MSME and write a report of 15-20 pages about consisting of the following:	30

Format of the Report	1. Name and Address of the Startup/Micro Enterprise Visited 2. Certificate from the MSME/Startup Stating the students visit and learning about the entrepreneurship and enterprise 3. Certificate from the concerned HOD & Concerned teacher 4. Brief Profile of the MSME/Startup 5. Lessons Learnt about Launching a Business, Product Marketing, Sources of finances, Challenges faced, Strategies to Overcome it, etc....,	
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References	
1	Donald F Kuratko (2014), “Entrepreneurship – Theory, Process and Practice”, 9th Edition, Cengage Learning,.
2	Khanka. S.S (2013) “Entrepreneurial Development” S.Chand & Co. Ltd., RamNagar, New Delhi.
3	Kuratko and Rao, Entrepreneurship: A South Asian Perspective; Ferrell,Fraedrich, Farrell, Business Ethics, Cengage Learning
4	Singh, Nagendra P. Emerging Trends in Entrepreneurship Development. NewDelhi: ASEED.
5	Marc J Dollinger, Entrepreneurship – Strategies and Resources, PearsonEducation
6	Venkateshwara Rao and Udai Pareek, (Eds)Developing Entrepreneurship-A Handbook
7	Donald F Kuratko (2014), “Entrepreneurship – Theory, Process and Practice”, 9 th Edition, Cengage Learning.
9	https://www.sba.gov/business-guide/launch-your-business/open-business-bank-account
10	https://www.businessnewsdaily.com/4686-how-to-start-a-business.html
11	https://www.forbes.com/advisor/in/business/how-to-start-a-business/
12	https://services.gst.gov.in/services/
13	https://www.jotform.com/pdf-templates/proposal
14	https://www.visme.co/templates/proposals/

BA–ECONOMICS Vth SEMESTER

Program Name	BA in Economics	Semester	Fifth Semester
Course Title	Digital Economics		
Course Code:	ECO V1B	No. of Credits	2+1
Contact hours	30+30 Hours	Duration of SEA/Exam	2 Hours
Formative Assessment Marks	50	Summative Assessment Marks	50

Course Objectives: After the completion of the course, the students will be able to understand the - structures of the digital economy, how the community and firms interact in digital markets and how digital markets should be designed and regulated.

Course Outcomes (COs): After the successful completion of the course, the student will be able to:

- CO1. To be able to apply the concepts of business models to digital economy and understand distinguishing features of the digital economy
- CO2. To link the specific distinguishing characteristics of digital economy to market structures and market outcomes
- CO3. To understand implications of business models and behaviors in the digital economy
- CO4. To analyze the structural incentives of digital economy.

MODULES	DESCRIPTION	60 Hrs
Module I	Features of the Digital Economy	15
	Introduction to the Digital Economy – Digitization of the Economy, The Digital Economy Ecosystem; Multi-sided Platforms, Two-sided Markets, Network Effects and Positive Feedbacks, Lock-in and Switching Costs, Formation of Monopolies in Digital Economy, The “Long Tail”, Importance of Data – Prediction Vs. Causality, Privacy; Search and Matching – Low Search Costs and Prices, Search Engines, Recommendations and Matching, Ethical Challenges in the digital economy – Challenges for Society, Challenges for ethics; Recent Legal Developments towards digital economy	
Practicum	Group Discussion on the Digital Economy Ecosystem Assignment on Importance of Data – Prediction Vs. Causality	
Module II	Digital Markets	15

	Main Types of Digital Economy Market Players – Specific Features, Behaviour, Goals Stakeholders and relationships in digital markets, Competition, Cooperation and Coopetition; Digital Innovations, Main types of Digital Economy Business Models, The layered internet model, Strategic Positioning – Business Strategies of Different types of Digital Economy Market Players; Digital Economy and Traditional Companies – Digital Technologies as a risk factor for traditional Companies, Business Models of Traditional Companies in Digital Economy, Coexistence Models of Digital and Traditional Companies; Individual Markets: Media – Copyrights and Streaming, News and Social Media; Advertising, E- commerce – Customization, Auctions, Payment Systems; The sharing/gig economy – Ride-hailing, Labour Markets, Lodging.	
Practicum	Seminar on e-commerce sites Debate on the sharing/gig economy	
Experiential Learning/ Practicum	Conduct a Survey using Interview Schedule on Perception of the consumers who are using digital payments	30
Format of the Report	1. Brief Profile on Digital Payments 2. Different Modes of Digital Payments 3. Collecting the data from the 50 respondents who use Digital Payments Using the pre designed interview schedule 4. Analysis of the data using simple statistical tools 5. Interview Schedule must consist of the following i. Name, Occupation, income and Expenditure ii. Socio-Economic Background of the Consumers iii. From when they are using Digital Payments iv. Products/ Services for which they are using Digital Payments v. Benefits of Digital Payments vi. Difficulties faced by Digital Payments vii. Suggestions to improve	

References	
1	Overby Harald, Jan.A.Audestad (2018), <i>Digital Economics: How Information and Communication Technology is Shaping Markets, Businesses and Innovation</i> , Create Space Independent, Scotts Valley, CA USA
2	Overby Harald, Jan.A.Audestad (2021), <i>Introduction to Digital Economics – Foundations, Business Models and Case Studies</i> , Springer Nature, Switzerland
3	Peitz M & Waldfogel J. (2012), <i>The Oxford Handbook of the Digital Economy</i> , Oxford University Press
4	Kahin.B & Brynjolfsson.E (2000), <i>Understanding the Digital Economy: Data, Tools and Research</i> , Cambridge, Mass: The MIT Press

BA–ECONOMICS
Vth SEMESTER

Program Name	BA in Economics	Semester	Fifth Semester
Course Title	Economics of Dairy Farming		
Course Code:	ECO V1C	No. of Credits	2+1
Contact hours	30+30 Hours	Duration of SEA/Exam	2 Hours
Formative Assessment Marks	50	Summative Assessment Marks	50

Course Outcomes (COs): After the successful completion of the course, the student will be able to:

- CO1. Know the animal husbandry and significance, employment opportunities in dairy farming
- CO2. Acquire the knowledge about dairy farm management.
- CO 3. Understand the facilities of dairy farming.
- CO4. Start the self-dairy farm business.

MODULES	DESCRIPTION	60 Hrs
Module I	Introduction	15
	Animal husbandry, livestock in India, scope and prosperity, dairy development in India, Dairy facilities-selection of site, housing system, classification of dairy plants, layouts and design equipment and utilization, cost aspects of dairy farming, records to be maintained in a dairy farm, finance to Dairy farming.	
Practicum	Visit dairy farm- Survey on Dairy facilities Survey on cost and revenue aspect of dairy farming.	
Module II	Management of a Dairy Farm	15
	Operation flood in India- Definition of Milk and Nutritive value of milk, Classification of dairy, animals-breeds and control, breeding management, Pest, disease and control, care of new born calf, major responsibilities of a dairy former, cooling, cleaning and sanitization of dairy farm, basic principles of feed, importance of Feed ingredients , feed formulation and feed mixing. Milk product and bio-products, procurement of marketing of milk, clean milk production and handling-processing and testing quality Control of milk, storage and distribution of processed milk. Government policies, scheme for dairy business.	
Practicum	Understand the animal breeds and management, diseases and its control, cleaning and sanitization Basic principles of feed and marketing.	
Experiential Learning/ Practicum	Visit a milk federation/dairy co-operative society/ Milk Union	30

Format of the Report	1. Name and Address of the milk federation/dairy co-operative society/ Milk Union Visited 2. Certificate from the milk federation/dairy co-operative society/ Milk Union Stating the students visit and learning about the Dairy Management 3. Certificate from the concerned HOD & Concerned teacher 4. Brief Profile of the milk federation/dairy co-operative society/ Milk Union Visited 5. Lessons Learnt about Managerial Functions, Operational Functions – Reception of the milk, Milk Trading, Testing of milk, dispatch of milk, Payments, Accounting, Cleanliness, Standardization of milk and other functions, dairy Product Marketing, Sources of finances, Challenges faced, Strategies to Overcome it, etc....,	
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References	
1	Banerjee G. C. (2010) -Textbook of Animal Husbandry, Oxford Publication, IBH Publishing Co. Pvt Ltd, Delhi
2	Muller CJC, The Dairy Farming Handbook, Directorate Animal Science Research and Technology Development Services.
3	Dairy India 2007, 6 th Edition
4	Principles and Practices of Dairy Farm – Jagadish Prasad.
5	Economics of Milk Production – Bharati Pratima Acharya Publishers.
6	Saras Applied Zoology- Fifth Edition 2015, SaraS Publication, Tamilnadu.
7	Dilip Dutt, Chairman, National Dairy Development Board- Good Dairy Husbandry Practices.
8	Fao Animal Production And Health- Guide To Good Dairy Farming Practice, Published by food and agriculture organization of the united nations and international dairy federation, rome, 2011
9	Dairying- 2019, www.cstaricalcutta.gov.in

6th Semester

BA–ECONOMICS
VIth SEMESTER

Program Name	BA in Economics	Semester	Sixth Semester
Course Title	International Economics		
Course Code:	ECO C13	No. of Credits	4
Contact hours	60 Hours	Duration of SEA/Exam	2 Hours
Formative Assessment Marks	40	Summative Assessment Marks	60

Course Outcomes (COs): After the successful completion of the course, the student will be able to:

- CO1. Understand the international trade theories and their application in international trade
- CO2. Explain the concept of terms of trade and demonstrate the effect of trade barriers; and display the ability to analyse the stages of economic integration
- CO3. Understand the concept of BoP and assess the BoP position and examine the changes in forex rate
- CO4. Analyse the role of International trade and financial institutions
- CO5. Demonstrate good inter-personal and communication skills through class participation and contributing to critical discussion on trade issues

MODULES	DESCRIPTION	60 Hours
Module I	International Trade Theories	15
	Meaning and Importance of International trade; Differences between Internal and International Trade; Trade Theories: Mercantilist view; Absolute cost and comparative cost advantage theories; Haberler's Opportunity cost theory; Heckscher-Ohlin theory; Leontief's paradox	
Practicum	Assignment on Ricardo's Comparative cost advantage and Leontief's paradox	
Module II	Terms of Trade and Commercial Policy	18
	Terms of trade- Concept and Types, Factors determining Terms of Trade; Commercial Policy: Free trade v/s Protection; Tariffs: Types and effects; Quotas; Anti-dumping; Economic Integration: Meaning and stages.	
Practicum	Debate: Free trade v/s Protection Mini project: Trace the evolution of India towards Economic Integration	
Module III	Balance of Payment and Capital Flow	12
	Balance of Payment: Concept, Components; Disequilibrium in Balance of Payment: Causes and Measures to correct disequilibrium; Foreign Exchange rate: Meaning and types; determination of Foreign exchange rate: Demand for and Supply of Forex; Purchasing Power Parity (PPP) theory; Capital Flow: Meaning and concept of Foreign Investment; Forms of FDI; Advantages and disadvantages of FDI.	
Practicum	Prepare India's Balance of Payment statement using recent Economic Survey	

	Assignment on Forms of FDI	
Module IV	International Finance and Trade Institutions	15

	Bretton Woods Institutions: IMF and IBRD -IDA and IFC: Organization, Objectives, Functions and their role in developing countries; Evolution of WTO: GATT – principles and objectives; WTO: Organization, Objectives, Functions, Agreements and current issues; WTO and developing countries;	
Practicum:	Group Discussion: Effectiveness of IMF and IBRD in developing countries Seminar: Agreements of WTO or current issues of WTO	
References		
1	Sodersten. B. (1993): International Economics, MacMillan, 3 Edition, London,	
2	Salvatore, D. (2016): International Economies, 12 Edition, Wiley Publication	
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8	Jackson, JD. (1998) The World Trading System, Cambridge University Press, Mass.Cherunilam, International Economics, TMH, New Delhi.	
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10	Jhingan M.L.(2016): International Economics, Vrinda Publications Pvt Ltd-Delhi	
11	Dwivedi D.N.(2013): International Economics Theory & Policy,Vikas Publishing House Pv.t Ltd.	
12	K.C. Rana & K.N. Verma (2017): International Economics;Vishal Publishing Co.	
13	Krishnamurthy H.R (2013) : Antararashtrereya Arthashastra ; (Kannada version), Sapna, Bengaluru	

BA–ECONOMICS
VIth SEMESTER

Program Name	BA in Economics	Semester	Fifth Semester
Course Title	Indian Public Finance		
Course Code:	ECO C14	No. of Credits	4
Contact hours	60 Hours	Duration of SEA/Exam	2 Hours
Formative Assessment Marks	40	Summative Assessment Marks	60

Course Outcomes (COs): After the successful completion of the course, the student will be able to:

- CO1. Understand the structure of Indian Public Finance
- CO2. Enable the students to know the Source and nature of public revenue and expenditure
- CO3. Understand the Budget and different concept of deficits
- CO4. Know the Public debt and its management
- CO5. Understand the fiscal and monetary policy and their tools and importance
- CO7. To enable the students to know the Indian federal financing system and Financial Commissions

MODULES	DESCRIPTION	60 Hours
Module I	Public Revenue	18
	Direct Tax Revenue - Sources of Revenue-Tax and Non-Tax Revenue; Trends and Patterns of Tax Revenue in India; Direct and Indirect Taxes in India; Personal Income Tax Rates and Slabs; Corporate Tax- Tax Rate and Slabs; Indirect Tax Revenue - Indirect Taxes – Earlier Taxes-VAT and MODVAT; Goods and Services Tax (GST)- Objectives and Classification of GST, Tax Rates of GST; Trends and Patterns of GST; Impact of GST on Indian Economy; Tax Reform Commissions.	
Practicum	Collection and analysis of data on Direct tax Collection and analysis of GST from businesses	
Module II	Public Expenditure	15
	Revenue Expenditure - Classification of Public Expenditure in India; Revenue Account Expenditure- Trends and Patterns; Capital Account Expenditure-Trends and Patterns; Fiscal Responsibility and Budget Management (FRBM) Act; Impact of Public Expenditure on Indian Economy; Expenditure Reforms Commission (ERC) in India; Union Budget and Its Analysis - Meaning and Classification of Budgets; Zero-Based Budget; Composition of Union Budget; Union Budget Analysis (current one); Different Concept of Deficits- Revenue, Fiscal, Primary Deficits	
Practicum	Analysis of Union Budget (Current one) Group Discussion on Budget Deficits	
Module III	Public Debt and Its Management	14

	Public Borrowings and Debt - Meaning and Nature of Public Debt; Sources of Public Borrowings; Classification of Public Debt; Trends and Patterns of Central Government Debt; Main Characteristics of Indian Public Debt; Crowding out of Private Investment; Causes of Public Debt in India; Burden of Public Debt and Management in India - Meaning of Burden of Public Debt; Importance of Public Management; Principles of Public Debt Management; Repayment of Public Debt in India; Impact of Public Debt on Indian Economy; Finance Commissions in India	
Practicum	Assignment to write on Indian Public Debt and sources of repayment Group Discussion on Burden of Public Debt	
Module IV	Fiscal and Monetary Policies and Federal Finance in India	13
	Fiscal and Monetary Policy India - Meaning and Objectives of Fiscal Policy; Importance of Fiscal Policy; Tools of Fiscal Policy; Meaning and Objectives of Monetary Policy; Importance of Monetary Policy; Tools of Monetary Policy; Indian Federal Finance - Meaning and Importance- Stages of Growth; Allocation of Resources- Division of Functions and Resources; Principles of Federal Finance; Shortcomings of Federal Financing; Finance Commission and Their Recommendations.	
Practicum	Group Discussion about the Role of Fiscal and Monetary Policies in controlling inflation Assignment to write the State List, Union List and Concurrent list	

References	
1	Bhatia H L (2021): Public Finance, S. Chand and Co., New Delhi.
2	Lekhi R.K (2020): <i>Public Finance</i> , Kalyani Publishers, New Delhi.
3	Musgrave R.A and Musgrave P.A (2017): <i>Public Finance in Theory and Practice</i> , McGraw- Hill Kogakusha, Tokyo.
4	Om Prakash (2021): <i>Public Economics: Theory a practice</i> , Vishal Publishing Co. Ludhiana.
5	S.K. Singh (2019): <i>Public Economics: Theory and Practice</i> S. Chand and Co., New Delhi.
6	Tyagi, B.P (2018): <i>Public Finance</i> , Jai Prakash Nath and Company, Meerut, India.

BA–ECONOMICS VIth SEMESTER

Program Name	BA in Economics	Semester	Sixth Semester
Course Title	Economic Thoughts of Dr.B.R Ambedkar		
Course Code:	ECO C15	No. of Credits	4
Contact hours	60 Hours	Duration of SEA/Exam	2 hours
Formative Assessment Marks	40	Summative Assessment Marks	60

Course Outcomes (COs): After the successful completion of the course, the student will be able to:

- CO1. derive inspiration from the life and works of B R Ambedkar
- CO2. Appreciate the socio-economic scenario during Ambedkar's period and compare it with present day
- CO3. Comprehend the contributions of Ambedkar on various economic aspects
- CO4. Assess the economic views of Ambedkar in the light of present-day socio-economic problems
- CO5. develop the traits of critical thinking and critiquing

MODULES	DESCRIPTION	60 Hours
Module 1	Ambedkar's views on Economy, Society and Equity	15 Hrs
	Socio- Economic-Political Context of India during Ambedkar's period; Brief outline of Ambedkar's life and career; Ambedkar's views on: a) economy and society; b) role of state c) Socialism and State Socialism; d) Women Empowerment , e) Objectives of economy: growth & equity; Socio-economic inequality: Economics of Caste, discrimination and deprivation; reforms suggested there in by Dr Ambedkar: Constitutional Provisions; Hindu code Bill	
Practicum	Assignment: Socio-economic inequality and status of affirmative actions in India	
Module 2	Thoughts of Ambedkar on Agriculture	15Hrs
	Ambedkar's views on: Agrarian Economy; Consolidation of land holdings and land revenue; Comparison with Ricardian view; Collective farming; views on land-ownership and land lessness; Nationalization of land and ceiling on land holdings; Surplus labour utilisation in agriculture and capital formation;	
Practicum	Mini Project: Using the Agriculture census data (https://agcensus.dacnet.nic.in/), chart the average size of operational holdings (by group) for different social classes in your tehsils and district (for 2001-2 and 2015-16); compare with the corresponding figures of state and nation.	
Module 3	Ambedkar on Industrialisation and Planning	15 Hrs
	Ideas on Industrialisation; views on types of industries Labour: views on labour exploitation and labour reforms; Social security Planning: Measures to develop Irrigation and Power sector: River linking;	
Practicum	Debate 1): Small & cottage industries of rural areas v/s large scale industries in	

	urban areas Debate 2) Industrialize or perish v/s Industrialize and perish	
Module 4	Ambedkar's contribution to Fiscal and Monetary Economics	15 Hrs
	Fiscal Economics: study of sources of revenue; canons of expenditure Monetary Economics: Price stability and exchange rate stability; Currency reform	
Practicum	Seminar: Ambedkar's views on „The Problem of Rupee“	

References (In order of importance of usage)	
1	Heggade O D (1998) - Economic Thoughts of B R Ambedkar
2	Heggade O D – ಅಂಬೇಡ್ಕರ್ ರ ಆರ್ಥಿಕ ವಿಚಾರಧಾರೆ, Arjun Pub. House, Mysuru
3	Speeches and writing of Dr. B R Ambedkar, W R Mujawar (4 Volumes)
4	ಡಾ.ಬಾಬಾಸಾಹೇಬ ಅಂಬೇಡ್ಕರ್ ರ ಬರಹಗಳು ಮತ್ತು ಭಾಷಣಗಳು – Vol 1, Vol.2 Part 1& 2, Vol 3 Vol 6 Part 1& 2, Vol 10 Part 1, 2, & 3, Vol 12 part 2, Pub by Govt of Karnataka
5	Nagar and Nagar (2010), Economic Thoughts and Policy of Dr. B. R. Ambedkar
6	Permaiah, P.K and Sateesh Reddy (1994) – Dr Ambedkar's Economic Philosophy, Delta Pub, New Delhi
7	Dongre M K – Economic Thought of Dr B R Ambedkar
8	Ramaiah Reddy (ed) (1987)- Dr B R Ambedkar's Economic Philosophy
9	Sukhadeo Thorat(1998), Ambedkar's Role in Economic Planning and Water Policy, Shipra Publications, New Delhi.
10	Ambedkar B. R. (1936) Annihilation of Caste , Government of Maharashtra , Writings and Speeches of Dr B R Ambedkar , Volume 1, Mumbai. Also see https://www.brambedkar.in/annihilation-of-caste/
11	Ambedkar B. R. (1923) THE PROBLEM OF THE RUPEE: ITS ORIGIN AND ITS SOLUTION (HISTORY OF INDIAN CURRENCY & BANKING) http://drarnbedkar.co.in/wp-content/uploads/books/category1/13the-problem-of-the-rupee.pdf
12	Vasant Moon (Compiled) (1989) DR. BABASAHEB AMBEDKAR WRITINGS AND SPEECHES VOL. 1Part V of https://www.mea.gov.in/Images/attach/amb/Volume_01.pdf

BA–ECONOMICS
VIth SEMESTER

Program Name	BA in Economics	Semester	Sixth Semester
Course Title	Environmental Economics		
Course Code:	ECO C16	No. of Credits	4
Contact hours	60 Hours	Duration of SEA/Exam	2 Hours
Formative Assessment Marks	40	Summative Assessment Marks	60

Course Outcomes (COs): After the successful completion of the course, the student will be able to:

- CO1. Understand how economic methods can be applied to environmental issues facing society
- CO2. Examine the linkages between Environmental Degradation and Economic Development
- CO3. Develop an informed view regarding the potential of economics to help societies achieve their environmental goals
- CO4. Demonstrate good inter-personal and communication skills through writing an essay and contributing to critical discussion
- CO5. Analyze environmental problems and to assess environmental policies

MODULES	DESCRIPTION	60 Hours
Module I	Environment and Ecology	15
	Meaning, Nature and Scope of Economics of Environment; Linkages between Environment and the Economy; Environmental Kuznets curve; Environmental Stress; Population and Environment; Poverty and Environment; Meaning and elements of ecology; Biotic and Abiotic components; Food, Hydrological and Carbon Cycles; Material Balanced Principle (Entropy law); Meaning and strategies to achieve Sustainable Development; Rio Summit; Green Accounting Introduction to SDGs	
Practicum:	Making charts relating to SDGs or Assignments on environment-economy linkages at the local level	
Module II	Natural Resources Scarcity and Conservation	15
	Meaning and Characteristics of Renewable and Non-renewable resources; Non-Renewable Resources and the problem of depletion and problem of overuse ; Resource Scarcity and Economic Growth (Limits to Growth Model); Energy and Economic Development; Energyresources and their Pricing; Alternative energy sources; Conservation of Natural Resources-3Rs – Reduce, Reuse and Recycling Measures	
Practicum:	Identifying local resources; Project on resource conservation (esp. water) at the College level; Discussion on Limits to Growth	
Module III	Environmental Pollution	15

	Environmental regulatory system in India; Pollution Control Boards and their Functions; Provisions of the Environmental Protection Act, 1986; Environmental Movements in India (Chipko); Role of Citizens and NGOs in Environmental Protection.	
Practicum:	visiting the Pollution Control Board office and observing its functions	
Module IV	Environmental Pollution and Regulation	15
	Environmental regulatory system in India; Pollution Control Boards and their Functions; Provisions of the Environmental Protection Act, 1986; Environmental Movements in India (Chipko); Role of Citizens and NGOs in Environmental Protection.	
Practicum:	Assignments on types of pollution in local areas; Seminars on climate change and its consequences; visiting the Pollution Control Board office and observing its functions	

References	
1	Bhattacharya, R.N (Ed) (2001), <i>Environmental Economics: An Indian Perspective</i> , Oxford University Press.
2	Karpagam M. (1993), <i>Environmental Economics</i> , Sterling Publishers, New Delhi.
3	Shankar, U, (2001), <i>Environmental Economics</i> , Oxford University Press, New Delhi.
4	Singh, Katar and Anil Shisodia (2007): <i>Environmental Economics: Theory and Applications</i> , Sage Publications, New Delhi
5	Mahajan V.S (2003): <i>Environmental Protection – Challenges & Issues</i> , Deep & Deep Publishers New Delhi
6	Sengupta, R.P. (Ed.) (2001), <i>Ecology and economics: An Approach to Sustainable Development</i> , Oxford University Press, New Delhi.
7	Nick Hanley, Jason F, Shogren and Ben White (2005): <i>Environmental Economics in Theory and Practice</i> , Macmillan India Ltd.

BA–ECONOMICS VIth SEMESTER

Program Name	BA in Economics	Semester	Sixth Semester
Course Title	Industrial Economics		
Course Code:	ECO E2A	No. of Credits	3
Contact hours	45 Hours	Duration of SEA/Exam	2 hours
Formative Assessment Marks	40	Summative Assessment Marks	60

Course Outcomes (COs): After the successful completion of the course, the student will be able to:

- CO1. Understand Industrial Economics in the Indian context.
- CO2. Critically examine and summarize the theories of industrial location.
- CO3. Describe the working of different industrial finance institutions.
- CO4. Identify the major issues involved in Indian industry and Government policies.

MODULES	DESCRIPTION	45 Hours
Module – I	Framework of Industrial Economics	15
	Industrial Economics: Meaning, Nature & Scope, Importance - Concepts: Plant, Firm and Industry; Organization of a Firm; Classification of Firms on the basis of Ownership (Public, Private, Joint and Cooperative Sectors), - Industrial Combinations, causes, Mergers & Acquisitions and Amalgamations; Industrial Location: Meaning, Determinants, Weber's theory, Florence's theory, Industrial location policy in India, Industrial Location trend in India.	
Practicum	Visit to nearest firm/organization and prepare the report	
Module – II	Industrial Growth and Finance in India	15
	Industrial growth in India: Review of recent trends in Indian industrial growth and structural transformation, Changing role of Public enterprises, efficiency, productivity and performance constraints - Performance and role of Micro, Small, Medium Enterprises (MSME), Role of MNC's in India, The IT sector in India viewed in world context; Industrial Finance : Internal & External and other components of Funds, Role, Nature, Volume and types of Industrial Finance - Role of Commercial Banks, IDBI, SIDBI, IFCI, SFCs etc.	
Practicum	Discussion on sources of Industrial Finance.	
Module – III	Issues in Indian Industry and Government Policies	15

	Major Issues in Indian Industry: Industrial Backwardness, Problems of Regional Imbalance, Industrial Sickness: Industrial Disputes: Causes and Measures, Industrial Proliferation and Environmental Protection; Government Policies for Industries : Global Competition emerging trend, Government's recent policies - Industrial policy 1991 and subsequent changes, Technology and Foreign Collaboration Policy,	
Practicum	Seminar on Industrial disputes.	

References	
1	Barthwal R.R. (2022), <i>Industrial Economics: An Introductory Textbook</i> , 3 rd Edn, NewAge International Publishers.
2	Bhalerao N & Desai SSM (2010), <i>Industrial Economy of India</i> , 5 th Edition, Himalaya Publishing House, Bombay.
3	Cherunilam, F. (1994), <i>Industrial Economics: Indian Perspective</i> , Himalaya Publishing House, Mumbai.
4	Hay, D. and D.J. Morris (1979), <i>Industrial Economics: Theory and Evidence</i> , Oxford University Press, New Delhi.
5	Singh, Sai A. and A. N. Sadhu (1988), <i>Industrial Economics</i> , Himalaya Publishing House, Bombay.
6	Sivayya, K.V. and Das, V.B.M. (2004), <i>Indian Industrial Economy</i> , S. Chand & Co., New Delhi.

BA–ECONOMICS
VIth SEMESTER

Program Name	BA in Economics	Semester	Sixth Semester
Course Title	Labour Economics		
Course Code:	ECO E2B	No. of Credits	3
Contact hours	45 Hours	Duration of SEA/Exam	2 Hours
Formative Assessment Marks	40	Summative Assessment Marks	60

Course Outcomes (COs): After successfully completing the course, the student will be able to:

CO1. Understand the basic concepts of Labour Economics.

CO2. analyze and tackle the labour issues effectively

CO3. Understand the theories of wages as well as wage policy
analyse

MODULES	DESCRIPTION	45 Hrs
Module - I	Introduction Labour Economics	15
	Concept and Definition - Nature, Scope and Importance - Labour as a Unique Factor of Production - Labour Economics as a Branch of Economics - Interdisciplinary Character of Labour Economics; Labour Market Concept of Labour Market and its Features - Difference between Labour Market and Commodity Market - Labour Market Imperfections and Factors Contributing to Imperfections - Determinants of the Supply and the Demand for Labour - Organized and Unorganized Labour.	
Practicum	Group Discussion on Labour as a Unique Factor of Production. Assignment on Labour Economics as a branch of economics Visit to Organized and Unorganized Labour Market	
Module II	Employment and Wage	15
	Concept of Employment and Full Employment - Need for Full Employment - Theories of Employment - Classical, Neo-Classical and Modern Approaches to Employment - Unemployment, Causes and Consequences - Technology and Employment - Information Technology Revolution and Employment; Wages Wage Concept and Definitions – Wage and Development – Theories of Wages, Classical, Marginal Productivity and Collective Bargaining Theory of Wage – Wage Differentials – Wage Policy, Objectives and Importance.	
Practicum	Presentation on Theories of Employment Undertake evaluation study on wage policies and prepare an assignment.	
Module III	Labour Productivity and Labour Welfare	15
	Concept of Labour Productivity - Measurement and Importance of Labour Productivity - Determinants - Causes for Low Labour Productivity and Measures to Increased Labour Productivity - Technology and Labour Productivity. State and	

	Labour: Need for State Intervention in Labour Matters - Methods of Intervention - Labour Social Security and Labour Welfare Measures; Labour Policy, Objectives and Importance - Emerging Perception on State Intervention.	
Practicum	Survey on the conditions of Labour in different sectors Debate on need for State Intervention in Labour Matters	

References	
1	Bhagoliwal T.N. <i>Economics of Labour and Industrial Relations</i> , Sahitya Bhavan, Agra.
2	McConnell C.R. and S.L. Brue <i>Contemporary Labour Economics</i> , McGraw Hill, New York.
3	Mittal and Sanjay Prakash Sharma. <i>Labour Economics</i> , RSBA, Jaipur.

BA–ECONOMICS VIth SEMESTER

Program Name	BA in Economics	Semester	Sixth Semester
Course Title	Factor Pricing and Welfare Economics		
Course Code:	ECO E2C	No. of Credits	3
Contact hours	45 Hours	Duration of SEA/Exam	2 Hours
Formative Assessment Marks	40	Summative Assessment Marks	60

Course Outcomes (COs): After the successful completion of the course, the student will be able to:

- ☐ CO1. Understand the concepts of Welfare Economics
- ☐ CO2. The students can be able to analyze and theories of welfare economics effectively.
- ☐ CO3. To understand the importance of the theories and models that can be used to improve the economic and social welfare of people

MODULES	DESCRIPTION	45 Hours
Module I	Theories and Pricing of Factors of Production	15
	Meaning and Significance of factor pricing - Functional (factor) and Personal incomes - Demand and Supply of Factors of Production in Perfect and Imperfect Competitive Markets. Rent: Ricardian Theory, Modern Theory, and Quasi Rent Theory; Wages: Subsistence Theory, Wage-Fund Theory, Residual Claimant Theory, Marginal Productivity Theory, and Modern Theory; Interest: Classical Theory - Loanable Funds Theory, Liquidity Preference Theory, and Hicks -Hansen Theory (IS-LM); Profit: Dynamic Theory, Innovation Theory, Risk-bearing Theory and Uncertainty bearing Theory; Factor pricing in perfectly competitive markets - Marginal productivity theory of factor pricing; Factor pricing in imperfectly competitive markets - Monopsony power: Trade Unions and wage determination - Bilateral monopoly; Prices of Fixed Factors: Rents and Quasi Rents - Non-Homogeneous Factors and Wage Differentials	
Practicum	Collecting information on labour supply to understand the reasons for its backward bending seminars about the above theories	
Module II	General Equilibrium Theory	15
	Interdependence in the Economy (Circular Flow) - Partial and General Equilibrium Analyses; Two-Sector Model: Equilibrium of Production and Equilibrium of Consumption - Simultaneous Equilibrium (Edgeworth box diagrams) – Walrasian General Equilibrium Analysis – Pareto Optimality and Market Equilibrium; Market failure – Meaning of Market Efficiency – Reasons for Market Failure - Externalities, Public goods, Property rights, Coase Theorem, Asymmetric information - Meaning - adverse selection, moral hazards, agency problems; Theory of second best.	
Practicum	Collecting information on market failures and to ascertain the reasons for it Describing the graphs used	

Module III	Welfare Economics	15
	Individual welfare and social welfare – Pigouvian Welfare Economics - Social welfare function – Kaldor-Hicks Compensation criteria - Collective Choice, Social Choice and Social Welfare - Arrow's impossibility theorem - Samuelson's Utility Possibility Curve - Value Judgments and Welfare Economics – Amartya Sen's Contributions to Welfare Economics; Government Intervention – Need for Public Policy - Economics Justification for Welfare Schemes.	
Practicum	Conducting surveys to understand the notion of welfare Preparing a list of government programmes and giving justification for it from the point of view of Economics	

References	
1	Ahuja H.L, (2007) <i>Advanced Economic Theory</i> , S. Chand and Company, New Delhi.
2	Ferguson C.E and Maurice S. Charles, (1978) <i>Economic Analysis - Theory and Applications</i> , Richard D. Irwin Inc. USA.
3	Sen A.K, (2017) <i>Collective Choice and Social Welfare</i> , Holden-Day, San Francisco.
4	Jhingan, M.L. (2016): <i>Microeconomics</i> , Vrinda Publications, New Delhi
5	Mankiw, N. Gregory (2020). <i>Principles of Economics</i> (Ninth ed.). Boston, MA.
6	Koutsoyianis, A (1979): <i>Modern Microeconomics</i> , London, Macmillan
7	Samuelson, Paul (2004): <i>Economics</i> , McGraw-Hill, New Delhi
8	Salvatore, Dominick (2008) <i>Microeconomics Theory and Applications</i> , Oxford University Press, New York

BA–ECONOMICS VIth SEMESTER

Program Name	BA in Economics	Semester	Sixth Semester
Course Title	Economics of Non-Farm Sector		
Course Code:	ECO E2D	No. of Credits	3
Contact hours	45 Hours	Duration of SEA/Exam	2 Hours
Formative Assessment Marks	40	Summative Assessment Marks	60

Course Outcomes (COs): After the successful completion of the course, the student will be able to:

- CO1. Understand the Meaning, Concepts, objectives, Nature and scope of Economics of Non-Farm Sector.
- CO2. To know the sustainable development of non-farm sector
- CO3. To understand the importance of non-farm sector in the Indian economy
- CO4. To study the Government programmes and policies for non-farm sector.

MODULES	DESCRIPTION	45 Hours
Module I	Introduction to Non-Farm Sector	15
	Meaning and Definition of Non-Farm Sector, Nature of Non-Farm Sector Economics, Importance of non-farm sector, Role of non-farm sector in the rural Economy, the demand for and supply of non-farm labour in the rural Economy. Need of sustainable development of non-farm sector in India,	
Practicum	Collecting the information on demand for and supply of nonfarm jobs Collecting information on how to develop and sustain non-farm sector Seminars and discussion	
Module II	Non-Farm Sector and Employment	15
	Types of unemployment in rural India, Nature of nonfarm Employment- Construction, Mining and quarrying, small businesses. Women and women employment in non-farm sector, Agro based Industries, and agro processing industries, Rural Markets, Rural MSMEs, women employment in households and cottage industry, Textile and handlooms, Rural Trade and Transportation. Rural Tourism-Swadesh Darshan.	
Practicum	Collecting the information on mining and quarrying workers condition Collecting information on rural trade and transportation Seminars and discussion	
Module III	Government Schemes and Policies for Non-Farm Sector	15
	Role of NGOs in non-farm sector, Government Schemes, MGNREGA, Skill India, , Pradhan Mantri Kaushal Vikas Yojna, National Apprenticeship Promotion	

	Scheme , Aajeevika, Deen Dayal Upadhyay Gramin Kaushal Yojana, Pradhan Mantri MUDRA Yojana (PMMY), National Institute of Rural Development and Panchayati Raj (NIRDPR), Establishing cooperative societies.	
Practicum	Collecting the information on National Apprenticeship Scheme Collecting information on MUDRA Yojana Seminars and discussion	

References	
1	Nayyar Rohini and Sharma N Alakh, (2005), Rural Transformation in India : The Role of Non-Farm Sector: Institute for Human Development
2	Rao M Koteswars (2000). Rural Employment: The Non-Farm Sector. Deep and Deep publication New Delhi
3	Chattopadhyay Apurba Kumar and Chakrabarti Saumya (2013) Economics of Rural Non-Farm Sector: Certain Characteristics and Determinants Serial Publication New Delhi
4	Fisher Thomas (1997), Forgotten Sector: Non-farm employment and enterprises in rural India: Practical Action Publication
5	Jami.B.Kilangla and M Giribabu. (Eds) : 2020 AGRICULTURE AND RURAL TRANSFORMATION: Issues and Challenges (With Special Reference to North-East India) .Rawat Publication .Jaipur
6	Government of India. 2020-21. Annual Report: Department of Agriculture, Cooperation and Farmers Welfare
7	Antony Piyush, V. R.P Gayathri,. Mamgain; (2001) “Social and Economic Security in India” (ed.), Institute for Human Development, New Delhi

BA–ECONOMICS
VIth SEMESTER

Program Name	BA in Economics	Semester	Sixth Semester
Course Title	Micro Entrepreneurs Development		
Course Code:	ECO V2A	No. of Credits	2+1
Contact hours	30+30 Hours	Duration of SEA/Exam	2 hours
Formative Assessment Marks	50	Summative Assessment Marks	50

Course outcomes; On completion of the course, the students should be able to

- CO1. To know how to start own Micro Entrepreneur Unit.
- CO2. To enable the students to find out various procedure of operations of Micro Entrepreneurship.
- CO3. To enable the students to gain knowledge and skills needed to run micro enterprises successfully.

MODULES	DESCRIPTION	60 Hours
Module I	Micro Enterprises : Technical Feasibility	15
	Management Evaluation – Micro Enterprises Promotion - Types of Enterprises and Management – Sole Proprietorship, Partnership, Limited Liability Partnership, Private Limited - Profile of the Management - Idea of Product – Product Line – Product Demand Estimation – Promotion and Competition Management. Technical Feasibility – Manufacturing Process – Digital Technology – AI in Manufacturing – Plant Location, Plant and Machinery Technical Feasibility, Raw-material Utilities and Human Resources, Contracts and Annual Maintenance Agreements (AMCs) – Project Monitoring and Implementation – Plant Optimization.	
Practicum	Assignment on Micro Entrepreneurs Development Survey to analyse Technical Feasibility in Micro Enterprises	
Module II	Micro Enterprises: Financial and Economic Viability	15
	Appraisal of Financial Feasibilities – Cost of the Project – Land and Building, Plant and Machinery, Furniture's and Fixtures, Pre-Operative Expenses, Fixed and Working Capital – Means of Strategic Finance – Own Contribution and Venture Capital, Term Loans, Subsidy and Government Schemes, Other Sources, Economic Viability – Profit and Losses, Break Even and Bottom Line.	
Practicum	Identify the factors of economics viability in micro enterprises and write an assignment	
Experiential Learning/ Practicum	Visit a Micro Enterprise and write a report of 15-20 pages about consisting of the following:	30
Format of the	1. Name and Address of the Micro Enterprise Visited	

Report	2. Certificate from the Micro Enterprise Stating the students visit and learning about the Micro Enterprises : Technical Feasibility 3. Certificate from the concerned HOD & Concerned teacher 4. Brief Profile of the Micro Enterprise 5. Lessons Learnt about Micro Enterprises: Technical Feasibility, Financial and Economic Viability, Launching a Business, Product Marketing, Sources of finances, Challenges faced, Strategies to Overcome it, etc....,	
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References	
1	Bessant J and Tidd J (2011): Innovation and Entrepreneurship, 2nd Edition, John Wiley & Sons.
2	Desai, V (2021): Small Scale Industries and Entrepreneurship, Himalaya Publishing House, Mumbai.
3	Desai, V (2011) : Dynamics of Entrepreneurial Development and Management, Himalaya Publishing House, Mumbai.
4	Donald F K (2014): Entrepreneurship – Theory, Process and Practice, 9th Edition, Cengage learning.
5	Hirsch, R.D., Peter, M and Shepherd D (2006): Entrepreneurship, 6 th Edition, Tata McGraw-Hill, Mumbai.
6	Kanaka S S (2013): Entrepreneurial Development, S.Chand & Co. New Delhi.
7	Nagendra and Manjunath, V.S. (2010): Entrepreneurship and Management, Pearson.
8	Roy R (2011): Entrepreneurship, 2 nd Edition, Oxford University Press.
9	Stokes, D and Wilson, N. (2010): Small Business Management and Entrepreneurship, 6 th Edition, Cengage Learning.
10	Sundar, K (2011) : Entrepreneurial Development, Vijay Nicole Imprints Pvt. Ltd.

BA–ECONOMICS
VIth SEMESTER

Program Name	BA in Economics	Semester	Sixth Semester
Course Title	Project Planning and Management		
Course Code:	ECO V2B	No. of Credits	2+1
Contact hours	30+30 Hours	Duration of SEA/Exam	2 hours
Formative Assessment Marks	50	Summative Assessment Marks	50

Course outcomes; On completion of the course, the students should be able to

- CO1-formulate and present a practicable project idea
- CO2-prepare a realistic economic plan
- CO3-describe models and methods to lead, carry out, document and evaluate project
- CO4-describe an intended project in a complete project plan
- CO5-review and evaluate own and others' project plans critically.
- CO6-Understand the content for preparing a Project Report for new projects and differentiate between financial, technical analysis and business feasibility.

MODULES	DESCRIPTION	60 Hours
Module I	Introduction to Project Planning and Management	15
	Meaning, Definition, Nature & Scope, Types - Schedule planning, Resource planning, Budget planning, Procurement management, Quality planning, Communications planning. Key elements of a successful project planning, and Process of Project planning.	
Practicum	Assignments on project planning and management activities. Group discussion on project planning.	
Module II	Project Management Implementation and Stakeholder Management and Project Controlling	15
	Project Management: Meaning, definition, Objectives, Nature and Importance, Project Management Skills - Qualities of the best project manager, Project Management life Cycle; Project Implementation: Definition, Implementation Tools, and Process, Performance and quality control measurements. Stakeholder Management: Definition, Features, Importance, Risk Management; Definition, importance, techniques; Project Controlling System: Meaning, Pre-requisites, Process, Essentials, Methods, Project completion.	
Practicum	Discussion on the Skills of project management, Decision Making, Problem-Solving, and risk-management skills In small groups, try to identify the LARGEST project each of you has been involved with.	
Experiential Learning/ Practicum	Visit an Enterprise and write a report of 15-20 pages about consisting of the following:	30
Format of the Report	1. Name and Address of the Enterprise Visited 2. Certificate from the Enterprise Stating the students visit and learning about the Project Planning and Management	

	3. Certificate from the concerned HOD & Concerned teacher 4. Brief Profile of the Enterprise 5. Lessons Learnt about Project Planning and Management Implementation, Stakeholder Management and Project Controlling Launching a Business, Product Marketing, Sources of finances, Challenges faced, Strategies to Overcome it, etc.....,	
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References	
1	Adrienne Watt (2014) Project Management – 2nd Edition, publisher, BC CAMPUS open access books library.
2	<u>Davies A. Igberaese</u> (2023) .Introduction to Project Management ,Routledge Taylor &Francis Group
3	Harold Kerzner (2013), Project Management; A Systems Approach to Planning, Scheduling, and Controlling, WILEY INDIA
4	Joseph Heagney (2019) Fundamentals of Project Management, 5th Edition, Amacom Publication
5	Kalpesh Ashar (2022), Project Management Essentials; You Always Wanted To Know, Vibrant Publication
6	Project Management from Simple to Complex, open text book Publisher: University of Minnesota Libraries Publishing
7	Albert lester(2021)Project management ,planning and control
8	Rory Burke (2009), Project Management Planning And Control Techniques, 4Th Edition, WILEY INDIA.

BA–ECONOMICS
VIth SEMESTER

Program Name	BA in Economics Internship	Semester	Sixth Semester
Course Title	Internship		
Course Code:	Skill Enhancement Course	No. of Credits	2
Contact hours		Duration of SEA/Exam	Practical
Formative Assessment Marks	50	Summative Assessment Marks	NA

INTRODUCTION:

Internship [Organizational work] is an integral part of the National Education policy- 2020. Its objective is to equip students with job skills and communication abilities, enabling them to bridge the gap between theoretical knowledge and practical application. The internship program incorporates various interventions that offer students exposure to real-life job experiences and expectations, empowering them with insights into the workings of different industries.

The internship is strategically positioned during the 6th semester of the Bachelors of Arts in Economics program. This timing provides students with a strong foundation in economics, enabling them to apply their knowledge in real-world settings. Additionally, the program caters to the critical need for teaching skills in economics and administration, enhancing the academic qualifications of students. Overall, the internship program aims to prepare students for the job market, thereby bridging the gap between academia and the professional world.

OBJECTIVES:

The objectives of conducting program are:

1. To boost students' employability by imparting soft skills that are essential in everyday life.
2. To enable students discover their professional strengths and weaknesses and align them with the changing economic environment.
3. To provide an opportunity for students to apply theoretical concepts and knowledge in real life situations at the work place.
4. To prepare students to understand organization culture and familiarize them with the organization needs.

5. To enable students to manage resources, meet deadlines, identify and undertake specific goal-oriented tasks.
6. To sharpen domain knowledge and provide core competency skills.

Internship Requirements & General Guidelines:

A. Nature of internship project work:

1. Every Student is required to work in an organization (a firm, self- help groups/cooperatives/farms or any rural economy components) for at least two months as part of Internship.
2. The student shall identify an internship work place.
3. Maximum five students of the same department from a College/University shall work for Internship in the same organization.
4. Internship work may be to carry out Professional work.
5. The internship shall be paid or unpaid.
6. While, working from the organizational premises is encouraged, in certain cases, virtual internship shall be considered.

B. Duration of Internship:

1. The Internship works shall be for a period of TWO months [Sixty Days].
2. The internship commence from the first day of the sixth semester.
3. Student is expected to carry out his/her Internship works during the first FIVE days of the week, and shall report to the department on a weekly basis.
4. The duration of the work shall be specified by the organization at the beginning of the program and the number of hours spent shall be in line with the prevailing rules.

C. Guide and Mentor:

1. An internal mentor shall be assigned by the University/College for the smooth conduct and supervision of the internship program.
2. The internal mentor shall provide guidance students in securing internship and to monitor the progress.

D. Protocol of the Internship work:

1. The head of the institution shall issue an internship work authorization letter during the 5th semester to the College or Organization where student is expected to join the internship work.
2. Student is expected to take up the preliminary work such as identifying the organization and engaging in securing in an offer from an organization
3. During the 5th semester, students who secured an offer must get consent offer signed by the principal/head to carry out internship.
4. Student must submit the joining report with the date of joining for internship to the department head through internal mentor.
5. In case of professional work, the student is expected to be regular in performing his/her duties/tasks assigned to him/her by the Organization.

E. Evaluation:

1. All the students should obtain a certificate of internship from the workplace. This certificate shall mention the name of the candidate, the organizations name and duration of work. A letter describing the work of the candidate is desirable. The certificate shall be submitted to the department head.
2. The performance of a candidate shall be assessed for maximum of 100 marks.
3. The assessment methods shall be decided by the Universities based on the existing conventions.
4. The assessment method shall consist of an internship report submitted by the students based on the work experience and a viva-voce/presentation.
5. **Viva-voce/Presentation:** There shall be a viva-voce examination will be conducted for by the department where each student is expected to give a presentation and submit necessary documents.

F. Marks allocation for Internship Work:

Statement of Marks Secured		
Item	Maximum Marks	Marks Obtained
Candidate Attendance for teaching/work		
Candidate Punctuality for teaching/work		
Course Work Preparation/ Work Commitment		
Students Feedback/Employer Feedback		
Behavioural Attitudes		

Overall Observation		
Total		
Total Marks Secured by student in Words:		

Viva-voce by Chairman and an Expert Drawn from Other University for 30 Marks			
Sl. No	Aspects	Maximum Marks	Marks Obtained
1	Presentation Skills		
2	Communication Skills		
3	Subject Knowledge		
Total			

Note: Assessment needs to be done as per the regulation.

BSc Honours
in
Economics
5th & 6th Semester

BANGALORE CITY UNIVERSITY,
BENGALURU

BSc–ECONOMICS
Vth SEMESTER

Program Name	B.Sc. in Economics	Semester	Fifth Semester
Course Title	Introduction to R Software		
Course Code:	ECO C9	No. of Credits	4
Contact hours	60 Hours	Duration of SEA/Exam	2 Hours
Formative Assessment Marks	40	Summative Assessment Marks	60

Course Outcome: After the successful completion of the course, the student will be able to:

- CO1. Enables to do programming in R
- CO2. Students can able to gain skill in analysing the data.
- CO3. To acquaint with the recent advances in R

Modules	Description	60 Hours
Module I	Introduction to R	10
	Installation Procedure - Help - Demo Examples - Packages and Libraries - Command Line - Data Editor - R Studio.	
Practicum	Develop an R script and execute it	
Module II	Basics in Calculations	16
	Basics and R as a Calculator - Multiplication and Division - Addition and Subtraction Built in Functions and Assignments - Matrix Operations - Creation of a Matrix - Properties - Transpose - Multiplication - Addition and Subtraction - Submatrices - Inverse.	
Practicum	Solve a problem on Submatrices - Inverse	
Module III	Missing Data and Logical Operations	16
	Missing Data - Logical Operations and Comparisons - Control Statements - Loops - Conditional Execution - Sequences - Repeats, Sorting and Ordering - Lists - Vector Indexing - Data Management with Strings - Display and Formatting.	
Practicum	Group Discussion on Missing Data and Logical Operations	
Module IV	Descriptive Statistics and Functions in R	18
	Frequencies - Absolute and Relative, Partition Values - Quartile - Decile - Percentile, Graphics - Bar Plots - Pie Chart - Histogram - Scatter Plot, Descriptive Statistics - Mean - Median - Mode - Variability - Variance - Range - Standard Deviation, Statistical Distribution - Skewness - Kurtosis, Statistical Functions - Correlation - Regression - Regression Line - Goodness of Fit.	
Practicum	Presentation on Descriptive Statistics and Functions in R	

References

1	Alain F. Zuur, Elena N. Ieno, Erik H.W.G. Meesters (2009), A Beginner's Guide to R (Use R), Springer Cham Publications.
2	Gareth James, Daniela Witten, Trevor Hastie, and Robert Tibshirani, (2013), Introduction to Statistical Learning with Applications in R, Springer Cham Publications.
3	Christian Heumann, Michael Schomaker, Shalabh (2017), Introduction to Statistics and Data Analysis - With Exercises, Solutions and Applications in R, Springer Cham Publications.
4	McKinney, W. (2012). Python for data analysis: Data wrangling with Pandas, NumPy, and IPython, O'Reilly Media, Inc.

BSc–ECONOMICS Vth SEMESTER

Program Name	B.Sc. in Economics	Semester	Fifth Semester
Course Title	Public Economics		
Course Code:	ECO C10	No. of Credits	4
Contact hours	60 Hours	Duration of SEA/Exam	2 hours
Formative Assessment Marks	40	Summative Assessment Marks	60

Course Outcomes (COs): After the successful completion of the course, the student will be able to:

CO1. Understand introductory Public Finance concepts.

CO2. Study the causes of market failure and corrective actions

CO3. Understand the impact, incidence and shifting of tax

CO4. Study the Economic Effects of tax on production, distribution and other effects

CO5. Enable the students to know the Principles and Effects of Public Expenditure

CO6. Understand the Economic and functional classification of the budget; Balanced and Unbalanced budget

CO7. Understand the Burden of Public debt and know the Classical/ Ricardian views, Keynesian and post-Keynesian views

CO8. To acquaint with the advantages and disadvantages of Deficit Financing,

MODULES	DESCRIPTION	60 Hours
Module I	Introduction to Public Economics	15
	Public Economics: Meaning, definitions, Scope and Significance, Public Finance and Private Finance: Meaning, and Distinction; Public good and private good: Meaning, Characteristics, and Distinction, Principle of Maximum Social Advantage, Market Failures: Meaning, causes-role of externalities; Market failure and role of government; Corrective actions.	
Practicum	Group Discussions on Public Finance and private finance; public good and private good Assignment on Market failure and government intervention	
Module II	Public Revenue and Public Expenditure	18
	Meaning and sources of revenue; Taxation –Cannons of taxation, Characteristics of a sound tax system, Impact, Incidence- Division of Tax burden, Shifting of tax, Economic Effects of tax on production, distribution and other effects, Progressive and Regressive, Proportional Tax, Direct and Indirect Taxes –Merits and Demerits, Taxable Capacity: Meaning and determinants. Public Expenditure; Meaning, classification, principles, Types & Cannons, Reasons for the growth of public	

	expenditure, Wagner's law of increasing state activities, Peacock-Wiseman hypotheses, Effects of public expenditure: Production, Distribution & Other effects	
Practicum	Mini-project/study to ascertain the impact of GST on retailers/wholesalers in your vicinity A case study on the taxable capacity of the different sections of society in the vicinity Assignment on Effects of public expenditure: Production, Distribution & Other Effects	
Module III	Public Debt	12
	Public Debt: Meaning, Purpose, Types & Effects; Sources of Public Borrowing; Burden of Public Debt -Classical/ Ricardian views, Keynesian and post-Keynesian views; Intergenerational equity of public debt; Causes of the Rise in Public Debt; Methods of debt redemption; Debt management.	
Practicum	Studying the burden of public debt through a project/ case study Assignment on Debt Management	
Module IV	Public Budget, Fiscal Policy and Fiscal Deficit	15
	Budget: Meaning, process & Types of budget, Economic and functional classification of the budget; Balanced and unbalanced budget, Types of Budget Deficits; Fiscal Policy: Meaning, objectives & Tools; Fiscal deficit: Meaning, Computation, Deficit Financing: Meaning, Advantages and Disadvantages	
Practicum:	Calculation of various types of budget deficit using the budget data Group discussion on the advantages and disadvantages of deficit financing	

References	
1	Lekhi R.K., Joginder Singh (2018) Public Finance, Kalyani publication, New Delhi
2	Tyagi B.P. (2014) Public Finance published by Jaya Prakash Nath and CO, Meerut
3	Hindriks J. and G. Myles (2006): Intermediate Public Economics, MIT Press.
4	Bhatia H L (2018): Public Finance. Vikas Publishing House.
5	Musgrave, R.A. (1989), The Theory of Public Finance, McGraw Hill
6	Musgrave, R.A. and P.B. Musgrave (1989), Public Finance in Theory and Practice, McGrawHill,

BSc–ECONOMICS
Vth SEMESTER

Program Name	B.Sc. in Economics	Semester	Fifth Semester
Course Title	Development Economics		
Course Code:	ECO C11	No. of Credits	4
Contact hours	60 Hours	Duration of SEA/Exam	2 Hours
Formative Assessment Marks	40	Summative Assessment Marks	60

Course Outcomes (COs): After the successful completion of the course, the student will be able to:

- CO1. Understand the basic concepts and measurements of Development.
- CO2. Learn some classical and partial theories of Development economics and identify the difference.
- CO3. Identify the difference between Developed and Developing Countries.
- CO4. Analyse and tackle the Development issues effectively.

MODULES	DESCRIPTION	60 Hrs
Module 1	Introduction to Economic Development	14
	Concept - Definitions - Distinction between Economic Growth and Development - Indicators of Growth and Development, Measures of Economic Development: Gross National Product (GNP) - Physical Quality of Life Index (PQLI), Human Development Index (HDI), Happiness Index, Inequality and Poverty: Meaning, causes, indicators – Gini Coefficient Index, Human Poverty Index (HPI).	
Practicum:	Assignment on various indicators of growth and development Group discussions about the characteristic features of different countries and their development levels	
Module 2	General Theories of Economic Growth and Development	16
	Adam Smith's Theory, David Ricardo's Theory, T.R. Malthus' Theory, Karl Marx's Theory, Schumpeter's Theory and Rostow's Growth Theory - Harrod-Domar Model.	
Practicum:	Assignment on different theories and their relevance to developing Countries, Debate on present stage of India's growth and estimated stage it may reach by 2047	
Module 3	Partial Theories of Economic Development	16
	Lewis Labour Surplus Model - Rodan's Big Push Theory - Lieberstein's Critical Minimum Effort Approach - Balanced Vs. Unbalanced Growth, Factors in the Development Process Capital Accumulation - Capital-Output Ratio - Technology and Economic Development.	

Practicum:	Group Discussion on Balanced and unbalanced growth strategies in Developed and developing countries Assignment on the Factors in the Development Process Capital Accumulation	
Module 4	Sustainable Development	14
	Inclusive Development - Millennium Development Goals - Sustainable Development Goals, Targets and Achievements with reference to India.	
Practicum	Seminar on MDGs and SDGs and the challenges	

References	
1	Higgins Benjamin & W.W. Norton Economic Development New York & Company.Inc.
2	Mishra S.K and Puri V.K, Economic Development and Planning, Himalaya Pub., House, Mumbai.
3	Taneja M.L. and Meier G. M, Economics of Development and Planning, S. Chand and Co, Delhi.
4	Thirlwall A.P. Growth and Development: With Special Reference to Developing Economies, Palgrave Macmillan, New York.
5	Todoaro. M.P & Orient Longman Economic Development in the Third World, United Kingdom
6	Sustainable Development Reports

BSc–ECONOMICS
Vth SEMESTER

Program Name	B.Sc. in Economics	Semester	Fifth Semester
Course Title	Indian Banking and Finance		
Course Code:	ECO C12	No. of Credits	4
Contact hours	60 Hours	Duration of SEA/Exam	2 Hours
Formative Assessment Marks	40	Summative Assessment Marks	60

Course Outcomes (COs): After the successful completion of the course, the student will be able to:

- CO1. Understand the structure of Indian banking and the role of banks in monetary policy.
- CO2. Analyze the functioning of banks and different types of accounts and other services offered by banks.
- CO3. Evaluate recent developments in the Indian banking sector, including digital banking, payment banks, and non-performing assets.
- CO4. Describe the overview of the Indian financial system, including financial markets, financial instruments, and financial regulation.
- CO5. Analyze the challenges faced by Indian banks and the implications of banking reforms for the Indian economy.
- CO6. Develop critical thinking and analytical skills in evaluating various financial products and services banks and capital markets offer.

MODULES	DESCRIPTION	60 Hours
Module I	Introduction to banking: India	15
	Indian Banks: Evolution, structure, functions, types and features- Public sector, private sector, foreign, Cooperative, RRB, Small finance banks, payment banks; Role and importance of banks in the Indian economy; Credit creation and financial intermediation; Central Bank and banking regulation; Regulatory and supervisory powers; Monetary policy and banking channel of credit control; Policy rates and banking; repo, reverse repo, MCLR, Bank rate, CRR, SLR, MSF; Issues in banking sector; NPA crisis; impact of global events on Indian banks.	
Practicum	Compare and contrast the different types of banks, highlighting their strengths and weaknesses- Presentation. Conduct a class discussion and compare and contrast the different scenarios on various loans, highlighting the risks involved and the measures taken by banks to manage these risks.	
Module II	Banking services	15

	Banking services: Bank deposits; Types and features of bank accounts; account opening and importance of KYC; Bank loans; types, features, documents required; eligibility, interest rates, maturity, loan default and consequences; Other services: Locker facility, payment and remittance services and channels; currency exchange; debit cards, credit cards, pre- paid cards; ATMs; internet and mobile banking; Modern banking products: Insurance on deposits and loans, Investment services in capital market- stocks, bonds and mutual funds; advisory services; retirement products.	
Practicum	Group discussion on bank accounts and loan products and making recommendation to different classes Comparison of banking services by visiting bank branches	
Module III	Modern Banking	15
	Modern banking facilities; Digital banking; Digital Wallets; Digital account opening; Biometrics; contact less payment system; instant payments; personal finance management tools; Use of artificial intelligence and machine learning in banks; Cyber security in banking; Credit scoring; Direct lending; Corporate banking; Investment Banking	
Practicum:	Survey bank customers to understand their usage and satisfaction levels with digital banking services. Analyze the adoption rates of digital banking services across different age groups and demographic segments	
Module IV	Financial Market	15
	Introduction to Indian financial markets; Equity markets and stock exchanges; Debt markets and bond markets; Currency markets and forex trading; Commodity markets and trading; Derivatives markets; Mutual funds; Insurance products Investing in capital market products- access, channels; risk in capital market investments; Role of SEBI, Fintech and innovation in capital markets;	
Practicum	Debate: Investing in capital market products. Assignment on Indian financial markets	

References	
1	Khan, M. Y. (2019). Indian Financial System (11th ed.). McGraw Hill Education (India) Private Limited.
2	RBI (2022) report on the trend and Progress of Banking in India
3	Pathak, B. V. (2018). Indian financial system. Pearson Education
4	Principles and Practices of Banking (2023), Indian Institute of Banking & Finance (IIBF), MacMillian
5	Shekhar, K. C. & Shekhar, L. (2013). Banking Theory and Practice, 21st Edition
6	Taxman's Digital Banking, Indian Institute of Banking & Finance (IIBF), Bharati Law House
7	Reserve Bank of India. (2017). Basic Financial Literacy Guide.

	https://www.rbi.org.in/Scripts/BS_FlgGuidelines.aspx
8	Securities and Exchange Board of India. (2021). Handbook of Statistics on Indian Securities Market. https://www.sebi.gov.in/reports-and-statistics/publications/dec-2022/handbook-of-statistics-2021_66158.html
9	Financial Education Handbook (2021) National Centre for Financial Education (NCFE) https://www.ncfe.org.in/resources/downloads
10	Investor Education material by National Stock Exchange (https://www.nseindia.com/invest/how-to-invest-in-capital-market)

BSc–ECONOMICS Vth SEMESTER

Program Name	BSc in Economics	Semester	Fifth Semester
Course Title	EXPERIMENTAL ECONOMICS		
Course Code:	ECO E1A	No. of Credits	3
Contact hours	45 Hours	Duration of SEA/Exam	2 Hours
Formative Assessment Marks	40	Summative Assessment Marks	60

Course Outcome: After the successful completion of the course, the student will be able to:

- CO1. name several experiments performed in each fields of economics, and describe how the results affirm (or differ from) economic theory and/or field data.
- CO2. Understand how to design and run an experiment.
- CO3. Develop the ability to read recent journal articles in experimental economics and evaluate the quality of the papers. Students are expected to read assigned journal articles and book chapters during class and present one article and/or chapter in class.

MODULES	DESCRIPTION	45 Hours
Module I	Introduction to Experimental Economics	15
	Experimental Economics and Behavioral Game Theory-Risk and Time Preferences - Basic Principles of Experimental Design	
Practicum	Group Discussion on Basic Principles of Experimental Design	
Module II	Behavioral Game Theory	15
	Social Preferences: Ultimatum, Dictator and Trust Games- Mixed-Strategy Equilibrium-Bargaining - Dominant Solvable Games - Level-k Model	
Practicum	Conduct an Experimental session on Behavioral Game Theory	
Module III	Markets and Strategic Behavior	15
	Learning - Coordination and Equilibrium Selection-Signaling, Reputation and Cheap Talk - Neuroeconomics: fMRI and Eye tracking - Field Experiments-Prediction Markets and Asset Bubbles -Market Design	
Practicum	Demonstrate the difference between economic theoretical predictions and actual behavior.	

References	
1	C. A. Holt, Pearson Addison Wesley (2007) Markets, Games & Strategic Behavior,
2	J. H. Kagel and A. E. Roth, Princeton University Press (1997), The Handbook of Experimental Economics.

BSc–ECONOMICS Vth SEMESTER

Program Name	BSc in Economics	Semester	Fifth Semester
Course Title	Economics of Artificial Intelligence		
Course Code:	ECO E1B	No. of Credits	3
Contact hours	45 Hours	Duration of SEA/Exam	2 Hours
Formative Assessment Marks	40	Summative Assessment Marks	60

Course Outcome: After the successful completion of the course, the student will be able to:

- CO1 Acquaint with Artificial Intelligence?
- CO2. Understand the importance of Artificial Intelligence in the growth and development of the economy.
- CO3. Understand the impact and implications of Artificial Intelligence on the various aspects of the economy
- CO4. The Implications of Artificial Intelligence for Public Policy

MODULES	DESCRIPTION	45 Hours
Module I	Introduction to Artificial Intelligence	15
	What is Intelligence? - agents and their goals, substrates; Evolution of biological intelligence – history, benefits and costs, emotions, empathy and cooperation, language and human culture; Evolution of artificial intelligence: history of AI - second machine age, the third digital revolution, the fourth industrial revolution; Machine Learning – Its impact on Economics, Ubiquitous computing, Clouds, Big data, Block chains, Software agents, robots and Digital Innovations; Artificial Intelligence - Theory of Decision Making, General Purpose Technology; Economic Potential of Artificial Intelligence – Innovations; AI and Privacy	
Practicum	Presentation on Machine Learning – Its impact on Economics	
Module II	Artificial Intelligence and the Economy	18
	Intelligent Economy – Platform economy, Gig economy, Sharing economy, Block chain economy, Crypto currency economy; Artificial Intelligence and Economic Growth – Productivity Gains, Knowledge Production Function; Implications of automation and AI on the demand for labor, wages, and employment; Artificial Intelligence – Research and Development, Structural Transformation, Income redistribution and Employment, Role of Demand; AI and Industrial Organization – Need for firm level data; Impact of AI and Machine Learning on Market Design; Macroeconomic Impact of AI.	
Practicum	Identify the role of Crypto currency in economic development and write a report	
Module III	Policy Implications of Artificial Intelligence	12
	Public Policy in an AI Economy - redistribution vs predistribution, concerns about inequality, steering technological progress; What shall be taxed? - labour vs capital; robots vs scarce factors? AI and International Trade -	

	policy implications with respect to investments in research, and behind-the-border regulations such as privacy, data localization, standards, and competition; Economics of Tort Liability – Punishing Robots; AI and Behavioural Economics; Ethical Challenges in the Intelligent economy – Challenges for Society, Challenges for ethics; Social attitudes: deriving meaning & dignity from work	
Practicum	Debate on Policy implications of Artificial Intelligence	

References	
1	Agrawal Ajay, Gans Joshua & Goldfarb Avi (2019). <i>The Economics of Artificial Intelligence – An Agenda</i> , NBER and University of Chicago Press
2	Brynjolfsson, Erik and Andrew McAfee (2015), <i>The Second Machine Age: Work, Progress, and Prosperity in a Time of Brilliant Technologies</i> , W.W. Norton.
3	Kahin.B & Brynjolfsson.E (2000), <i>Understanding the Digital Economy: Data, Tools and Research</i> , Cambridge, Mass: The MIT Press
Academic Articles	
1	Berg, Andrew, Edward F. Buffie, and Luis-Felipe Zanna (2017), “Robots, Growth, and Inequality: Should We Fear the Robot Revolution? (The Correct Answer is Yes),” forthcoming, <i>IMF Working Paper</i> .
2	European Political Strategy Centre, <i>The age of artificial intelligence</i> , EPSC Strategic Notes, March 2018.
3	Frey, Carl Benedikt, and Michael A. Osborne (2013), “The Future of Employment: How Susceptible Are Jobs to Computerisation?” Oxford University paper.
4	Gries T. and Naudé W., <i>Artificial Intelligence, Jobs, Inequality and Productivity: Does Aggregate Demand Matter?</i> , Institute of Labor Economics, Discussion paper No 12005, November 2018.
5	Korinek, Anton and Joseph Stiglitz (2019), “Artificial Intelligence and Its Implications for Income Distribution and Unemployment,” in Agrawal et al.: <i>The Economics of Artificial Intelligence</i> , NBER and University of Chicago Press, May 2019.
6	McKinsey Global Institute, <i>Notes from the AI frontier – Modeling the impact of AI on the world economy</i> , discussion paper, September 2018.
7	OECD, <i>Digital economy outlook 2017</i> , October 2017.
8	PricewaterhouseCoopers, <i>The macroeconomic impacts of artificial intelligence</i> , February 2018.

BSc–ECONOMICS Vth SEMESTER

Program Name	BSc in Economics	Semester	Fifth Semester
Course Title	Economics of Tourism Development		
Course Code:	ECO V1A	No. of Credits	2+1
Contact hours	30+30 Hours	Duration of SEA/Exam	2 hours
Formative Assessment Marks	50	Summative Assessment Marks	50

Course outcomes; On completion of the course, the students should be able to ☐ CO1. Interpret and evaluate tourism as a phenomenon and as a business system. ☐ CO2. Understand economic benefits such as tax revenues, job creation, or diversification of Local economies ☐ CO3. Contextualize tourism within broader cultural, environmental and economic Dimensions ☐ CO4. Develop and evaluate tourism policy and planning initiatives. ☐ CO5. Propose and conduct a research project to inform tourism practice ☐ CO6. Critique tourism practices for their implications locally and globally		
MODULES	DESCRIPTION	60 Hours
Module I	Introduction to Tourism	15
	Tourism: Concepts, definition, objectives, Nature and scope, significance, History, Tourist, Traveler, Excursionist .Types and forms: Inter-regional and intra-regional tourism, Inbound, outbound, Domestic and International. . Forms of Tourism: religious, Medical Tourism, historical, social, adventure, health, business, conferences, conventions, incentives, sports and adventure tourism. Tourism system: Nature, characteristics and components of Tourism Industry. Tourism Demand and supply: Measures, patterns, Characteristics and factors influencing tourism Demand and Supply.	
Practicum	Assignments on Types and forms of Tourism, Group discussions on factors influencing Demand and supply of Tourism.	
Module II	Growth, Development & Impact of Tourism on Economic development	15
	Growth and Development of Tourism: post - second world war phenomenon, causes of rapid growth and modern tourism. Role and functions of Important Tourism Organizations: ITDC, State Tourism Development Corporations, Ministry of Railways & Civil Aviation, WTO, IATA, (International Air Transport Association), TAAI, (Travel Agents Association of India) WTTC (World Travel and Tourism Council) FHRAI. (The federation of Hotel and Restaurant Association of India), Important Tourism Destinations of India and Karnataka. Policy initiatives of Tourism Development Economic Impact: contribution to GDP/SDP, Economic benefits, the multiplier effect, development of infrastructure, Regional development, effects on	

	employment, tourism & economic value of cultural resources. Social, Cultural and Environmental Impacts.	
Practicum	Presentation on economic, social, cultural and Environmental impacts	
Experiential Learning/ Practicum	Education trip to important tourist destinations for the students and submit report consisting 15-20 pages	30
Format of the report	Name of the place – location - means of traveling to the destination - employability of tourism- climate - best season to visit - picturesque landscape - lodging and food - recreational facilities - places of interest in the area - local language/dress - handicrafts/products - overall experience	

References	
1	Bhatia A.K (2003) International Tourism, Sterling Publishers Pvt Ltd, New Delhi
2	Bhatia A.K (2003) International Tourism, Sterling Publishers Pvt Ltd, New Delhi
3	Bhatia AK (2002), Tourism Development: Principles and Practices, Revised edition Sterling Publishers Private Limited, New Delhi.
4	Dennis L & Foseter – Glencoe (2003), an Introduction to Travel & Tourism, McGrawHill International
5	Revathy Girish (2007), Indian Tourist Panorama, Dominant Publishers and Distributors, New Delhi.
6	Introduction to Tourism-A K Bhatia
7	Tourism System-Mill R C and Morrison
8	Tourism Development- R Garther
9	Sati V.P (2001), Tourism Development in India, Pointer Publications,Jaipur.
10	Singh Anand (2005), Tourism in Ancient India, Serials Publications, New Delhi.
11	Sinha R.K (2003), Growth and Development of Modern Tourism, Dominant Publishers, New Delhi.

6th Semester

BSc–ECONOMICS
VIth SEMESTER

Program Name	B.Sc. in Economics	Semester	Sixth Semester
Course Title	Actuarial Economics		
Course Code:	ECO C13	No. of Credits	4
Contact hours	60 Hours	Duration of SEA/Exam	2 Hours
Formative Assessment Marks	40	Summative Assessment Marks	60

Course Objective:

- To understand the basic actuarial techniques
- To understand the concepts of finance and its application in actuarial economics

Course Outcome: After the successful completion of the course, the student will be able to:

- CO1. Enables understanding on Actuarial Economics and Insurance sector.
- CO.2.To acquaint with advances in financial models

Modules	Description	60 Hours
Module I	Introduction to Actuarial Economics	10
	Principles of Actuarial Economics - Importance of Finance and Mathematics in Actuarial Economics - The concept of Insurance - Classification of Insurance - Types of Life Insurance - History of Insurance in India - Insurance regulatory and development Act.	
Practicum	Assignment on Principles and Importance of Finance and Mathematics in Actuarial Economics	
Module II	Theory of Interest	18
Chapter 4	Time value of money - Simple interest, compound interest, depreciation, investing over a period. Cash flow models - Zero coupon bonds, fixed interest securities, index linked securities, equity, annuity, an interest on loan, repayment loan. Interest rates - Nominal rate, effective rate and force of interest.	
Practicum	Calculate Simple interest, compound interest, depreciation	
Module III	Theory of Uncertainty and Risk Models	18
	Axioms of choice under uncertainty; utility functions; expected utility theorem; measures of risk-absolute and relative risk aversions; measures of investment risk-variance of return, semi-variance of return Decision Theory: Zero-sum two-player games – Domination - The Minimax criterion - Saddle points.	
Practicum	Presentation on Theory of Uncertainty and Risk Models	
Module IV	Portfolio Theory	14
	Portfolio Theory - Benefits of Diversification, Models of Asset Returns: - Multifactor Models - The Single Index Model, Asset Pricing Models: - The	

	Capital Asset Pricing Models (CAPM) – Limitations of CAPM.	
Practicum	Group discussion on Portfolio Theory and Benefits of Diversification	

References	
1	Stephen G. Kellison, The theory of interest. Irwin Mc Graw Hill, 2008.
2	John Hull, Futures, Options and financial derivatives, Prentice hall publication
3	Panjer, Harry,H. (1998), Financial economics with applications to investments, Insurance and pensions. The Actuarial foundation.

BSc–ECONOMICS
VIth SEMESTER

Program Name	B.Sc. in Economics	Semester	Fifth Semester
Course Title	Indian Public Finance		
Course Code:	ECO C14	No. of Credits	4
Contact hours	60 Hours	Duration of SEA/Exam	2 Hours
Formative Assessment Marks	40	Summative Assessment Marks	60

Course Outcomes (COs): After the successful completion of the course, the student will be able to:

- CO1. Understand the structure of Indian Public Finance
- CO2. Enable the students to know the Source and nature of public revenue and expenditure
- CO3. Understand the Budget and different concept of deficits
- CO4. Know the Public debt and its management
- CO5. Understand the fiscal and monetary policy and their tools and importance
- CO7. To enable the students to know the Indian federal financing system and Financial Commissions

MODULES	DESCRIPTION	60 Hours
Module I	Public Revenue	18
	Direct Tax Revenue - Sources of Revenue-Tax and Non-Tax Revenue; Trends and Patterns of Tax Revenue in India; Direct and Indirect Taxes in India; Personal Income Tax Rates and Slabs; Corporate Tax- Tax Rate and Slabs; Indirect Tax Revenue - Indirect Taxes – Earlier Taxes-VAT and MODVAT; Goods and Services Tax (GST)- Objectives and Classification of GST, Tax Rates of GST; Trends and Patterns of GST; Impact of GST on Indian Economy; Tax Reform Commissions.	
Practicum	Collection and analysis of data on Direct tax Collection and analysis of GST from businesses	
Module II	Public Expenditure	15
	Revenue Expenditure - Classification of Public Expenditure in India; Revenue Account Expenditure- Trends and Patterns; Capital Account Expenditure-Trends and Patterns; Fiscal Responsibility and Budget Management (FRBM) Act; Impact of Public Expenditure on Indian Economy; Expenditure Reforms Commission (ERC) in India; Union Budget and Its Analysis - Meaning and Classification of Budgets; Zero-Based Budget; Composition of Union Budget; Union Budget Analysis (current one); Different Concept of Deficits- Revenue, Fiscal, Primary Deficits	
Practicum	Analysis of Union Budget (Current one) Group Discussion on Budget Deficits	
Module III	Public Debt and Its Management	14

	Public Borrowings and Debt - Meaning and Nature of Public Debt; Sources of Public Borrowings; Classification of Public Debt; Trends and Patterns of Central Government Debt; Main Characteristics of Indian Public Debt; Crowding out of Private Investment; Causes of Public Debt in India; Burden of Public Debt and Management in India - Meaning of Burden of Public Debt; Importance of Public Management; Principles of Public Debt Management; Repayment of Public Debt in India; Impact of Public Debt on Indian Economy; Finance Commissions in India	
Practicum	Assignment to write on Indian Public Debt and sources of repayment Group Discussion on Burden of Public Debt	
Module IV	Fiscal and Monetary Policies and Federal Finance in India	13
	Fiscal and Monetary Policy India - Meaning and Objectives of Fiscal Policy; Importance of Fiscal Policy; Tools of Fiscal Policy; Meaning and Objectives of Monetary Policy; Importance of Monetary Policy; Tools of Monetary Policy; Indian Federal Finance - Meaning and Importance- Stages of Growth; Allocation of Resources- Division of Functions and Resources; Principles of Federal Finance; Shortcomings of Federal Financing; Finance Commission and Their Recommendations.	
Practicum	Group Discussion about the Role of Fiscal and Monetary Policies in controlling inflation Assignment to write the State List, Union List and Concurrent list	

References	
1	Bhatia H L (2021): Public Finance, S. Chand and Co., New Delhi.
2	Lekhi R.K (2020): <i>Public Finance</i> , Kalyani Publishers, New Delhi.
3	Musgrave R.A and Musgrave P.A (2017): <i>Public Finance in Theory and Practice</i> , McGraw- Hill Kogakusha, Tokyo.
4	Om Prakash (2021): <i>Public Economics: Theory a practice</i> , Vishal Publishing Co. Ludhiana.
5	S.K. Singh (2019): <i>Public Economics: Theory and Practice</i> S. Chand and Co., New Delhi.
6	Tyagi, B.P (2018): <i>Public Finance</i> , Jai Prakash Nath and Company, Meerut, India.

BSc–ECONOMICS VIth SEMESTER

Program Name	B.Sc. in Economics	Semester	Sixth Semester
Course Title	International Economics		
Course Code:	ECO C15	No. of Credits	4
Contact hours	60 Hours	Duration of SEA/Exam	2 Hours
Formative Assessment Marks	40	Summative Assessment Marks	60

Course Outcomes (COs): After the successful completion of the course, the student will be able to:

- CO1. Understand the international trade theories and their application in international trade
- CO2. Explain the concept of terms of trade and demonstrate the effect of trade barriers; and display the ability to analyse the stages of economic integration
- CO3. Understand the concept of BoP and assess the BoP position and examine the changes in forex rate
- CO4. Analyse the role of International trade and financial institutions
- CO5. Demonstrate good inter-personal and communication skills through class participation and contributing to critical discussion on trade issues

MODULES	DESCRIPTION	60 Hours
Module I	International Trade Theories	15
	Meaning and Importance of International trade; Differences between Internal and International Trade; Trade Theories: Mercantilist view; Absolute cost and comparative cost advantage theories; Haberler's Opportunity cost theory; Hecksher-Ohlin theory; Leontief's paradox	
Practicum	Assignment on Ricardo's Comparative cost advantage and Leontief's paradox	
Module II	Terms of Trade and Commercial Policy	18
	Terms of trade- Concept and Types, Factors determining Terms of Trade; Commercial Policy: Free trade v/s Protection; Tariffs: Types and effects; Quotas; Anti-dumping; Economic Integration: Meaning and stages.	
Practicum	Debate: Free trade v/s Protection Mini project: Trace the evolution of India towards Economic Integration	
Module III	Balance of Payment and Capital Flow	12
	Balance of Payment: Concept, Components; Disequilibrium in Balance of Payment: Causes and Measures to correct disequilibrium; Foreign Exchange rate: Meaning and types; determination of Foreign exchange rate: Demand for and Supply of Forex; Purchasing Power Parity (PPP) theory; Capital Flow: Meaning and concept of Foreign Investment; Forms of FDI; Advantages and disadvantages of FDI.	
Practicum	Prepare India's Balance of Payment statement using recent Economic Survey Assignment on Forms of FDI	

Module IV		International Finance and Trade Institutions	15
		Bretton Woods Institutions: IMF and IBRD -IDA and IFC: Organization, Objectives, Functions and their role in developing countries; Evolution of WTO: GATT – principles and objectives; WTO: Organization, Objectives, Functions, Agreements and current issues; WTO and developing countries;	
Practicum:		Group Discussion: Effectiveness of IMF and IBRD in developing countries Seminar: Agreements of WTO or current issues of WTO	
References			
1		Sodersten. B. (1993): International Economics, MacMillan, 3 Edition, London,	
2		Salvatore, D. (2016): International Economies, 12 Edition, Wiley Publication	
3		Vaish, M. C. and Sudama Singh (1980): International Economics, 3 Edition, Oxford and IBH Publication, New Delhi.	
4		Carbaugh, R. J. (1999): International Economics, International Thompson Publishing, New York	
5		Dana, M. S. (2000): International Economics: Study Guide and work Book, 5. Edition, Routledge Publishers, London.	
6		Kenen, P. B. (1994). The International Economy, Cambridge University Press, London.	
7		Krugman, P.R. and M. Obstfeld (1994): International Economics: Theory and Policy Addison-Wesley Publications.	
8		Jackson, JD. (1998) The World Trading System, Cambridge University Press, Mass.Cherunilam, International Economics, TMH, New Delhi.	
9		D M Mithani, International Economics, Himalaya , Mumbai.	
10		Jhingan M.L.(2016): International Economics, Vrinda Publications Pvt Ltd-Delhi	
11		Dwivedi D.N.(2013): International Economics Theory & Policy, Vikas Publishing House Pv.t Ltd.	
12		K.C. Rana & K.N. Verma (2017): International Economics; Vishal Publishing Co.	
13		Krishnamurthy H.R (2013) : Antararashtrereya Arthashastra ; (Kannada version), Sapna, Bengaluru	

BSc–ECONOMICS
VIth SEMESTER

Program Name	B.Sc. in Economics	Semester	Sixth Semester
Course Title	Environmental Economics		
Course Code:	ECO C16	No. of Credits	4
Contact hours	60 Hours	Duration of SEA/Exam	2 Hours
Formative Assessment Marks	40	Summative Assessment Marks	60

Course Outcomes (COs): After the successful completion of the course, the student will be able to:

- CO1. Understand how economic methods can be applied to environmental issues facing society
- CO2. Examine the linkages between Environmental Degradation and Economic Development
- CO3. Develop an informed view regarding the potential of economics to help societies achieve their environmental goals
- CO4. Demonstrate good inter-personal and communication skills through writing an essay and contributing to critical discussion
- CO5. Analyze environmental problems and to assess environmental policies

MODULES	DESCRIPTION	60 Hours
Module I	Environment and Ecology	15
	Meaning, Nature and Scope of Economics of Environment; Linkages between Environment and the Economy; Environmental Kuznets curve; Environmental Stress; Population and Environment; Poverty and Environment; Meaning and elements of ecology; Biotic and Abiotic components; Food, Hydrological and Carbon Cycles; Material Balanced Principle (Entropy law); Meaning and strategies to achieve Sustainable Development; Rio Summit; Green Accounting Introduction to SDGs	
Practicum:	Making charts relating to SDGs or Assignments on environment-economy linkages at the local level	
Module II	Natural Resources Scarcity and Conservation	15
	Meaning and Characteristics of Renewable and Non-renewable resources; Non-Renewable Resources and the problem of depletion and problem of overuse ; Resource Scarcity and Economic Growth (Limits to Growth Model); Energy and Economic Development; Energyresources and their Pricing; Alternative energy sources; Conservation of Natural Resources-3Rs – Reduce, Reuse and Recycling Measures	
Practicum:	Identifying local resources; Project on resource conservation (esp. water) at the College level; Discussion on Limits to Growth	
Module III	Environmental Pollution	15

	Environmental regulatory system in India; Pollution Control Boards and their Functions; Provisions of the Environmental Protection Act, 1986; Environmental Movements in India (Chipko); Role of Citizens and NGOs in Environmental Protection.	
Practicum:	visiting the Pollution Control Board office and observing its functions	
Module IV	Environmental Pollution and Regulation	15
	Environmental regulatory system in India; Pollution Control Boards and their Functions; Provisions of the Environmental Protection Act, 1986; Environmental Movements in India (Chipko); Role of Citizens and NGOs in Environmental Protection.	
Practicum:	Assignments on types of pollution in local areas; Seminars on climate change and its consequences; visiting the Pollution Control Board office and observing its functions	

References	
1	Bhattacharya, R.N (Ed) (2001), <i>Environmental Economics: An Indian Perspective</i> , Oxford University Press.
2	Karpagam M. (1993), <i>Environmental Economics</i> , Sterling Publishers, New Delhi.
3	Shankar, U, (2001), <i>Environmental Economics</i> , Oxford University Press, New Delhi.
4	Singh, Katar and Anil Shisodia (2007): <i>Environmental Economics: Theory and Applications</i> , Sage Publications, New Delhi
5	Mahajan V.S (2003): <i>Environmental Protection – Challenges & Issues</i> , Deep & Deep Publishers New Delhi
6	Sengupta, R.P. (Ed.) (2001), <i>Ecology and economics: An Approach to Sustainable Development</i> , Oxford University Press, New Delhi.
7	Nick Hanley, Jason F, Shogren and Ben White (2005): <i>Environmental Economics in Theory and Practice</i> , Macmillan India Ltd.

BSc–ECONOMICS
VIth SEMESTER

Program Name	BSc in Economics	Semester	Sixth Semester
Course Title	Economics of Information		
Course Code:	ECO E2A	No. of Credits	3
Contact hours	45 Hours	Duration of SEA/Exam	2 Hours
Formative Assessment Marks	40	Summative Assessment Marks	60

Course Outcome: After the successful completion of the course, the student will be able to:

- CO1. Students shall be able to understand the role of information in contemporary economics.
- CO2. Students are expected to understand the strategies for pricing information.
- CO3. Students are expected to understand relevance of information policy in contemporary digital economy.

MODULES	DESCRIPTION	45 Hours
Module I	Role of Information in Economy	15
	Foundations of the Information economy-Introduction to Information economy-Definition of information good-The cost of producing information-Managing intellectual property-Economic and public good-The economics of attention-Technology Systems competition Lock-in and switching costs-Positive feedback, network externalities, and standards Policy	
Practicum	Assignment on Role of Information in Economy	
Module II	Strategies for Pricing Information	15
	Pricing Information Goods-Cost of producing information-Costs and competition-Product Personalization-Product pricing-Personalized pricing-Versioning-Group pricing- Price sensitivity, Network effects, Lock-in, Sharing Versioning Information-Types of versioning-Value-subtracted versions-Avoiding pitfalls in versioning-On-line and off-line versions-Goldilocks pricing-Customizing the browser-Bundling-Promotional pricing	
Practicum	Survey on Strategies for Pricing Information and write a report on it	
Module III	3 Strategies for Information Industries and Information Policy in New Economy	15
	Cooperation and Compatibility-How standards change the game-Winnersand Loser from standards-Tactics in formal standard-setting-Managing open standards-Case Study- Linux Adoption in the Public Sector: An Economic Analysis-Waging a Standards War-Classification of standards wars-Information-age standards wars-Key assets in network markets-Two basic tactics in standards wars-Capstone case: Microsoft Netscape Information Policy overview-Price differentiation-Competition policy-Telecommunications regulation and policy in brief (Indian context)	

	The components of Digital Economics-Twelve theme of the new economy-The ten technology shift-The Internet Economy and its Indicators-E-commerce and Digital Economy	
Practicum	Presentation on 3 Strategies for Information Industries and Information Policy in New Economy	

References [Please refer to the Latest Editions]	
1	Don Tapscott. The digital economy: Promise and peril in the age of networked intelligence. McGraw-Hill. (ISBN : 0-07-063342-8)
2	Amrit Tiwana. The knowledge Management Toolkit: Practical techniques for building a knowledge Management System. Pearson Education . (ISBN 981-405-873-4)

BSc–ECONOMICS
VIth SEMESTER

Program Name	BSc in Economics	Semester	Sixth Semester
Course Title	METHODS OF DATA ANALYSIS		
Course Code:	ECO E2B	No. of Credits	3
Contact hours	45 Hours	Duration of SEA/Exam	2 Hours
Formative Assessment Marks	40	Summative Assessment Marks	60

Course Outcome: After the successful completion of the course, the student will be able to:

- CO1. What are Theoretical Distributions?
- CO2. Hypothesis Testing
- CO3. Techniques of Data Analysis – t test, ANOVA, Factor Analysis, Regression and correlation

MODULES	DESCRIPTION	45 Hours
Module I	Hypothesis Testing	15
	Types of Analysis: Univariate, Bivariate and Multivariate Data Analysis - Descriptive vs. Inferential Analysis – Theoretical Distributions – Normal, Chi-square, t, F, Binomial and Poisson Distributions – Concept of Estimator - Sampling Distribution of Estimator - Point and Interval Estimation - Properties of Good Estimator for Small and Large Samples Hypothesis Testing: Steps in Testing of Hypothesis - Approaches to Hypothesis Testing - Confidence Interval Approach -Test of Significance Approach and P-Value Approach- Formulation of Hypothesis - Null and Alternative - Level of Significance - One Sided and Two Sided Hypothesis - Type-I and Type-II Error - Test Statistic- Critical Value	
Practicum	Conduct independent research and analysis and formulate and test the hypothesis	
Module II	Techniques of Data Analysis	15
	Estimation of Mean and Variance - Test of Single Sample Mean - Two Independent Means Test - Testing for Means of Paired Data - Test of Single Sample Variance - Two Sample Variance Test – Test of Proportions - Non-Parametric Tests - Testing of Hypotheses: Concepts,. Non-Parametric Tests: Advantages & Disadvantages - Chi-square Tests - Tests for Randomness. Analysis of Variance - Assumptions for Analysis of Variance - Testing for the Equality of K Proportion Means - Between Treatments Estimate of Population Variance - Within Treatments Estimate of Population Variance - Comparing the Variance of Estimates - The F Test - Multiple Comparison Procedures.	
Practicum	Presentation on Techniques of Data Analysis	
Module III	Advanced Data Analysis	15

	Factor Analysis: Meaning of Factor Analysis - Objectives of Factor Analysis - Designing a Factor Analysis - Assumptions in Factor Analysis - Deriving Factors and Assessing Overall Fit - Interpreting the Factors - Validation of Factor Analysis. Regression Analysis: Simple Regression, Partial Regression and Multiple Regression Analysis - Assumptions - Estimation of Regression Model. Correlation Analysis: Correlation Analysis - Types of Correlation: Cross Tabulation, Charles Spearman's Coefficient of Correlation, Karl Pearson's Coefficient of Correlation, Coefficient Multiple and Partial Correlation.	
Practicum	Debate on Applications of advanced data analysis	

References	
1	Anderson, Sweeney and Willams, (2012) <i>Statistics for Business and Economics</i> , Thomson South Western, US.
2	Hair, Anderson, Tatham and Black (2009) <i>Multivariate Data Analysis</i> , Pearson Education, Singapore

BSc–ECONOMICS
VIth SEMESTER

Program Name	BSc in Economics	Semester	Sixth Semester
Course Title	Game Theory		
Course Code:	ECO E2C	No. of Credits	3
Contact hours	45 Hours	Duration of SEA/Exam	2 Hours
Formative Assessment Marks	40	Summative Assessment Marks	60

Course Outcome: After the successful completion of the course, the student will be able to:

- CO1. Describe the basic elements of a game, including players, strategies, and preferences and explain the basic assumptions for the analysis.
- CO2. Analyze games with simultaneous moves and apply best response analysis to determine the equilibrium of a game.
- CO3. Analyze games with sequential moves and apply backwards induction to determine the equilibrium of a game.
- CO4. Describe and analyze a number of strategic situations frequently observed in economic, political, and social environments and explain the nature of the equilibrium.
- CO5. Describe and analyze a number of strategic situations frequently observed in the business world, including imperfect competition and incentives in organizations.

MODULES	DESCRIPTION	45 Hours
Module I	Introduction to Game Theory	15
	Basic Ideas and Examples – The GPA RAT Race – Why Professors So Mean? - How to Think about Strategic Games – Decisions versus Games - Classifying games : Sequential or Simultaneous - Conflict or Commonality – Single or Repeated with same or changing opponents - Equal or Asymmetric Information – Games with Fixed rules or Manipulable –Cooperative or Non-cooperative – some Terminology: Strategies – Payoffs – Rationality – Common Knowledge of Rules – Equilibrium – Observation and experiment – Uses of game Theory.	
Practicum	Group Discussion on the notion of a strategic game and equilibria and identify the characteristics of main applications of these concepts and write an assignment	
Module II	Games with Sequential Moves	10
	Game Trees: Nodes – Branches – Paths of Play – Uncertainty and Nature’s Moves – Outcomes and Payoff – Strategies – Tree Construction — Adding More Players – Adding More Moves	
Practicum	Solve Games using Trees – Solve Games Adding More Players and Moves	
Module III	Simultaneous Move Games – Discrete and Continuous Strategies	20
	Depicting Simultaneous Move Games with Discrete Strategies – Nash Equilibrium – Nash Equilibrium as a System of Beliefs and Choices –	

	Dominance; Both Players have Dominant Strategies - One Players has a Dominant Strategy – Successive Elimination of Dominant Strategies – Best-Response Analysis - Simultaneous Move Games with Continuous Strategies; Pure Strategies that are Continuous variables - Price Competition – Some Economics of Oligopoly – Political campaign Advertisement – General Method of Finding Nash Equilibria	
Practicum	Real World Evidence of Nash Equilibrium Computer Software to Solve Game Problems	

References	
1	Avinash K. Dixit and Barry J. Nalebuff: The Art of Strategy, W.W. Norton, 2008.
2	Martin Osborne, An Introduction to Game Theory, Oxford University Press, 2003

BSc–ECONOMICS
VIth SEMESTER

Program Name	BSc in Economics	Semester	Sixth Semester
Course Title	Operational Research in Economics		
Course Code:	ECO E2D	No. of Credits	3
Contact hours	45 Hours	Duration of SEA/Exam	2 Hours
Formative Assessment Marks	40	Summative Assessment Marks	60

Course Outcome: After the successful completion of the course, the student will be able to:

- CO1. Explain the concepts of operational research and history of it.
- CO2. Explain the different approaches to decision analysis
- CO3. To optimize the objective function with given constraints.
- CO4. Solve different types of problems involving linear programming
- CO5. Discuss the concept of system analysis and identify the various categories of systems
- CO6. Describe model and analyze the different types of models
- CO7. Able to draw decision tree
- CO8. Defined simulation and highlight the various types of simulation models
- CO9. Able to perform Monte Carlo simulation.

MODULES	DESCRIPTION	45 Hours
Module I	Fundamentals of Operation Research	15
	Operations Research (OP) – Objectives, History and Development, Definition, Characteristics of Operation Research; Scientific Methods in Operations Research- The Judgment Phase, The Research Phase, The Action Phase ; Necessity of Operations Research in Industry ; Scope and Applications of Operations Research; Scope of Operations Research in Financial Management Tools of OP: Linear Programming (LP)- Formulation of LP Problems, Constrained maximization and minimization, Graphical and algebra solution for LP problems.	
Practicum	Designing LP Problem Empirically optimizing objective function Verification of graphical solutions with algebra method. Solving the LP problem in Excel Sheet.	

Module II	Modeling in Operational Research	15
	Introduction, Objectives, Definition, and Classification of Modeling; Characteristics of Good Models , Advantages of Models, Limitations of Models, Constructing a Model ; Types of Mathematical Models ; Introduction to Decision Tree: Definition, Benefits and Disadvantages of Using Decision Tree, Components of the Decision Tree, Structure of a , Decision Tree , Analysis of Decision Tree.	
Practicum	Construction of different operation research models Drawing decision tree	
Module III	Simulation and System Analysis	15
	Introduction to Simulation: Objectives, Definition, Advantages of Simulation Technique, Application of Simulation, Limitations of Simulation Technique, Monte Carlo Simulation Introduction to System Analysis: Objectives, Definition, The Systems Theory, Elements of a System, Types of Systems; Forms of Systems - Conceptual System, Mechanical System, Social System, Deterministic System, Probabilistic System; The Concept of Entropy in a System.	
Practicum	Simulation experiments Monte Carlo Simulation using software Analysis of probability systems.	

References	
1	Dixon – Ogbechi, B.N. (2001). <i>Decision Theory in Business</i> . Lagos: Philglad Nig. Ltd.
2	Gupta, P.K. & Hira, D.S. (2012). <i>Operations Research</i> , New Delhi: S. Chand & Company.
3	Rama Murthy P (2007). <i>Operations Research</i> , New Delhi: New Age International (P) Limited, Publishers
4	Taylor III, B.W. (2007). <i>Introduction to Management Science</i> , (9th ed.). New Jersey: Pearson Education Inc.

BSc–ECONOMICS
VIth SEMESTER

Program Name	BSc in Economics	Semester	Sixth Semester
Course Title	Economics of Stock Market		
Course Code:	ECO V2A	No. of Credits	2+1
Contact hours	30+30 Hours	Duration of SEA/Exam	2 Hours
Formative Assessment Marks	50	Summative Assessment Marks	50

Course Outcomes (COs): After the successful completion of the course, the student will be able to:

- CO1. Understand the functioning, structure, and regulation of the stock market in India.
- CO2. Analyze different types of stocks, their characteristics, and their impact on risk and returns tradeoffs.
- CO3. Demonstrate the process of investing in the stock market, including opening a demat account, understanding trading windows, and buying and selling stocks.
- CO4. Utilize technical analysis tools such as chart analysis, trend analysis, and major indicators to develop effective trading strategies.
- CO5. Conduct fundamental analysis by interpreting financial statements, calculating financial ratios, and applying valuation methods.
- CO6. Apply risk management techniques and investment biases in real-time stock trading scenarios.

Modules	Description	60 Hrs
Module I	Fundamentals of stock market	15
	Overview of capital market, Stock market in India: Function, structure and regulation, features and participants; Types of stocks and their characteristics; Stock market indices; Equity Issue methods; primary and secondary markets; Risk and returns tradeoff; Diversification, The process to invest: Opening demat account; Trading window; Day trade vs. long term investment; Buying and selling stocks; types of orders in stock trading; payments and trade settling cycle; stop-loss	
Practicum	Conducting mock stock trading sessions using real-time data Analyze the risk associated with stock market investments	
Module II	Technical and Fundamental analysis	15
	Technical analysis: Meaning, advantages and role, Chart analysis- types of charts and interpretation; candle charts and pattern study. Trend analysis, moving averages, support and resistance levels, sentimental indicators, volume and open interest; Major Indicators & Oscillators; Trading Strategies; Dow Theory And Elliot Wave Theory; Trading Psychology And Risk Management; Fundamental analysis: Introduction, relevance and steps; Time value of money; discount factors; risk free rate; equity risk premium; CAPM Beta; Sharpe ratio;	

	Financial Statements: Balance Sheet, Income statement, cash flow statement; Financial ratios; Valuation methods: Discounted cash flow method; Dividend discount method; Free cash flows;	
Practicum:	Complete National Stock Exchange Academy's certification in technical analysis. Using charts, demonstrate a trading strategy Assignment on various investor biases in trading	
Experiential Learning/ Practicum	Visit an Retail Brokerage Firm and write an report to know about opening a demat trading account, Online Trading and research to wide area Financial Products	30
Format of the Report	1. Name and Address of the Retail Brokerage Firm Visited 2. Certificate from the Retail Brokerage Firm Stating the students visit and learning about the Fundamentals of stock market 3. Certificate from the concerned HOD & Concerned teacher 4. Brief Profile of the Retail Brokerage Firm 5. Lessons Learnt about Fundamentals of stock market, Technical and Fundamental analysis, Sources of finances, Challenges faced, Strategies to Overcome it, etc....,	

References	
1	Graham, B. (2006). The Intelligent Investor. Collins Business Essentials.
2	NCFM, Technical Analysis module. National Stock Exchange Academy
3	NCFM, Fundamenta Analysis module. National Stock Exchange Academy
4	Patel, R. (2010). Guide to Technical Analysis & Candlesticks. Mumbai: Vision Books.
5	Sadekar, B. M. (2011). How to Make Money Trading with Candlestick Charts.
6	Palat, R. (2019). Fundamental analysis for investors (4th ed.). McGraw-Hill Education.
7	Gala, K., & Gala, A. (2019). Fundamental Analysis Shares: Become An Intelligent Investor.
8	Khan, M. Y. (2019). Indian Financial System (11th ed.). McGraw Hill Education
9	Lynch, P., & Rothchild, J. (2000). One Up on Wall Street: How to Use What You Already Know to Make Money in the Market. Penguin.
10	Paul, P. (2015). How to Avoid Loss and Earn Consistently in the Stock Market: An Easy-to-understand and Practical Guide for Every Investor. Vision Books.

BSc–ECONOMICS
VIth SEMESTER

Program Name	BSc in Economics	Semester	Sixth Semester
Course Title	Micro Entrepreneurs Development		
Course Code:	ECO V2B	No. of Credits	2+1
Contact hours	30+30 Hours	Duration of SEA/Exam	2 hours
Formative Assessment Marks	50	Summative Assessment Marks	50

Course outcomes; On completion of the course, the students should be able to

- CO1. To know how to start own Micro Entrepreneur Unit.
- CO2. To enable the students to find out various procedure of operations of Micro Entrepreneurship.
- CO3. To enable the students to gain knowledge and skills needed to run micro enterprises successfully.

MODULES	DESCRIPTION	60 Hours
Module I	Micro Enterprises : Technical Feasibility	15
	Management Evaluation – Micro Enterprises Promotion - Types of Enterprises and Management – Sole Proprietorship, Partnership, Limited Liability Partnership, Private Limited - Profile of the Management - Idea of Product – Product Line – Product Demand Estimation – Promotion and Competition Management. Technical Feasibility – Manufacturing Process – Digital Technology – AI in Manufacturing – Plant Location, Plant and Machinery Technical Feasibility, Raw-material Utilities and Human Resources, Contracts and Annual Maintenance Agreements (AMCs) – Project Monitoring and Implementation – Plant Optimization.	
Practicum	Assignment on Micro Entrepreneurs Development Survey to analyse Technical Feasibility in Micro Enterprises	
Module II	Micro Enterprises: Financial and Economic Viability	15
	Appraisal of Financial Feasibilities – Cost of the Project – Land and Building, Plant and Machinery, Furniture's and Fixtures, Pre-Operative Expenses, Fixed and Working Capital – Means of Strategic Finance – Own Contribution and Venture Capital, Term Loans, Subsidy and Government Schemes, Other Sources, Economic Viability – Profit and Losses, Break Even and Bottom Line.	
Practicum	Identify the factors of economics viability in micro enterprises and write an assignment	
Experiential Learning/ Practicum	Visit a Micro Enterprise and write a report of 15-20 pages about consisting of the following:	30

Format of the Report	1. Name and Address of the Micro Enterprise Visited 2. Certificate from the Micro Enterprise Stating the students visit and learning about the Micro Enterprises : Technical Feasibility 3. Certificate from the concerned HOD & Concerned teacher 4. Brief Profile of the Micro Enterprise 5. Lessons Learnt about Micro Enterprises: Technical Feasibility, Financial and Economic Viability, Launching a Business, Product Marketing, Sources of finances, Challenges faced, Strategies to Overcome it, etc....,	
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References	
1	Bessant J and Tidd J (2011): Innovation and Entrepreneurship, 2nd Edition, John Wiley & Sons.
2	Desai, V (2021): Small Scale Industries and Entrepreneurship, Himalaya Publishing House, Mumbai.
3	Desai, V (2011) : Dynamics of Entrepreneurial Development and Management, Himalaya Publishing House, Mumbai.
4	Donald F K (2014): Entrepreneurship – Theory, Process and Practice, 9th Edition, Cengage learning.
5	Hirsch, R.D., Peter, M and Shepherd D (2006): Entrepreneurship, 6 th Edition, Tata McGraw-Hill, Mumbai.
6	Kanaka S S (2013): Entrepreneurial Development, S.Chand & Co. New Delhi.
7	Nagendra and Manjunath, V.S. (2010): Entrepreneurship and Management, Pearson.
8	Roy R (2011): Entrepreneurship, 2 nd Edition, Oxford University Press.
9	Stokes, D and Wilson, N. (2010): Small Business Management and Entrepreneurship, 6 th Edition, Cengage Learning.
10	Sundar, K (2011) : Entrepreneurial Development, Vijay Nicole Imprints Pvt. Ltd.

BSc–ECONOMICS
VIth SEMESTER

Program Name	BSc in Economics	Semester	Sixth Semester
Course Title	Project Planning and Management		
Course Code:	ECO V2C	No. of Credits	2+1
Contact hours	30+30 Hours	Duration of SEA/Exam	2 hours
Formative Assessment Marks	50	Summative Assessment Marks	50

Course outcomes; On completion of the course, the students should be able to

- CO1-formulate and present a practicable project idea
- CO2-prepare a realistic economic plan
- CO3-describe models and methods to lead, carry out, document and evaluate project
- CO4-describe an intended project in a complete project plan
- CO5-review and evaluate own and others' project plans critically.
- CO6-Understand the content for preparing a Project Report for new projects and differentiate between financial, technical analysis and business feasibility.

MODULES	DESCRIPTION	60 Hours
Module I	Introduction to Project Planning and Management	15
	Meaning, Definition, Nature and scope, Types - Schedule planning, Resource planning, Budget planning, Procurement management, Quality planning, Communications planning. Key elements of a successful project planning, and Process of Project planning.	
Practicum	Assignments on project planning and management activities. Group discussion on project planning.	
Module II	Project Management Implementation and Stakeholder Management and Project Controlling	15
	Project Management: Meaning, definition, Objectives, Nature and Importance, Project Management Skills - Qualities of the best project manager, Project Management life Cycle; Project Implementation: Definition, Implementation Tools, and Process, Performance and quality control measurements. Stakeholder Management: Definition, Features, Importance, Risk Management; Definition, importance, techniques; Project Controlling System: Meaning, Pre-requisites, Process, Essentials, Methods, Project completion.	
Practicum	Discussion on the Skills of project management, Decision Making, Problem-Solving, and risk-management skills In small groups, try to identify the LARGEST project each of you has been involved with.	
Experiential Learning/ Practicum	Visit an Enterprise and write a report of 15-20 pages about consisting of the following:	30
Format of the	1. Name and Address of the Enterprise Visited	

Report	2. Certificate from the Enterprise Stating the students visit and learning about the Project Planning and Management 3. Certificate from the concerned HOD & Concerned teacher 4. Brief Profile of the Enterprise 5. Lessons Learnt about Project Planning and Management Implementation, Stakeholder Management and Project Controlling Launching a Business, Product Marketing, Sources of finances, Challenges faced, Strategies to Overcome it, etc....,	
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References	
1	Adrienne Watt (2014) Project Management – 2nd Edition, publisher, BC CAMPUS open access books library.
2	<u>Davies A. Igberaese</u> (2023) .Introduction to Project Management ,Routledge Taylor &Francis Group
3	Harold Kerzner (2013), Project Management; A Systems Approach to Planning, Scheduling, and Controlling, WILEY INDIA
4	Joseph Heagney (2019) Fundamentals of Project Management, 5th Edition, Amacom Publication
5	Kalpesh Ashar (2022), Project Management Essentials; You Always Wanted To Know, Vibrant Publication
6	Project Management from Simple to Complex, open text book Publisher: University of Minnesota Libraries Publishing
7	Albert lester(2021)Project management ,planning and control
8	Rory Burke (2009), Project Management Planning And Control Techniques, 4Th Edition, WILEY INDIA.

CBCS Question Paper Pattern for UG Semester
DSC, DSEC & OEC

Paper Code:		Paper Title:	
Duration of Exam	2 Hours	Max Marks	60 Marks
Instruction:	Answer all the sections		

Section-A

1. Answer <u>ALL</u> the following sub-questions, each sub-question carries ONE mark	(10X1=10)
A. B. C. D. . J. <i>Note for Section-A: Three sub-questions from each unit and remaining one sub-question (J) from unit I to III.</i>	

Section-B

Answer any <u>FOUR</u> of the following questions, each question carries FIVE marks	(4X5=20)
2. 3. 4. 5. 6. 7. <i>Note for Section-B: Minimum Two question from each unit (Q No 2 to 6)</i>	

Section-C

Answer any <u>THREE</u> of the following questions, each question carries TEN marks	(3X10=30)
8. 9. 10. 11. 12. <i>Note for Section-C: Minimum Two question from each unit (Q No 8 to 12) Sub-questions such as 'a' and 'b' may be given for a question in section-C only.</i>	

