

Bachelor of Arts (Economics) B.A. (Economics)
(Three-Year, Semester Based, Full Time Program)

Programme Curriculum	Credit Recommended by UGC	Credit offered by IUU	Courses
Maximum Credits on offer in the BA Program	120	190	54
The structure of Credit requirements is shown below:			
Total Number of Major Courses (CORE)	60	88	22
Total Number of Minor Courses	22	50	15
Multi-Disciplinary Course (MDC)	9	12	3
Ability Enhancement Courses (AEC)	8	13	6
Skills Enhancement Courses (SEC)	9	13	5
Value Added Courses (VAC)	8	08	2
Summer Internship Project	4	06	1

Bachelor of Arts (Economics) (Hons.) B.A. (Economics) (Hons.)
(Four-Year, Semester Based, Full Time Program)

Programme Curriculum	Credit Recommended by UGC	Credit offered by IUU	Courses
Maximum Credits on offer in the BA (Hons.) Program	162	259	70
The structure of Credit requirements is shown below:			
Total Number of Major Courses (CORE)	80	116	29
Total Number of Minor Courses	32	74	21
Multi-Disciplinary Course (MDC)	09	12	03
Ability Enhancement Courses (AEC)	08	17	07
Skills Enhancement Courses (SEC)	09	14	06
Value Added Courses (VAC)	08	08	02
Summer Internship Project	04	06	01
Research Project / Dissertation	12	12	01

Semester - I

Sr No	Course Code	Course Name	Periods			Credits	Category
			L	T	P		
1	BAE 101	Introduction To Microeconomics	4	0	0	4	Major
2	BAE 102	Introduction To Macroeconomics	4	0	0	4	Major
3	BAE 103	History Of Economic Thought	4	0	0	4	Major
4	BAE 104	Basic Statistics & Mathematics	4	0	0	4	Major
5	BAE 105	Understanding Business Environment	3	0	0	3	Minor
6	BAE 106	Financial Markets	3	0	0	3	Minor
7	BAE 107	Sustainable Development	3	0	0	3	Minor
8	BAE 108 P	Office Management With Ms-Word And Ms Excel	0	0	4	2	SEC
9	BAE 109	English Communication - I	2	0	2	3	AEC
		Total Credits	27	0	6	30	
		Total Contact Hours	33				
Co-curricular & Extra Curricular Activities IT Lab (1) + Communication Lab (1) + University/School Outdoor Activity (1)			33+3=36				

Semester - II

Sr No	Course Code	Course Name	Periods			Credits	Category
			L	T	P		
1	BAE 110	Intermediate Microeconomics	4	0	0	4	Major
2	BAE 111	Intermediate Macroeconomics	4	0	0	4	Major
3	BAE 112	Mathematical Methods For Economics-I	4	0	0	4	Major
4	BAE 113	Human Resource Development	4	0	0	4	Minor
5	BAE 114	Theory Of Income And Employment-I	4	0	0	4	Major
6	BAE 115	Money and Finance	4	0	0	4	MDC
7	BAE 116 P	Office Management With Advance Ms-Excel And PowerPoint	0	0	4	2	SEC
8	BAE 117 P	English Communication - II	0	0	2	1	AEC
9	BAE 118 P	Personality Development And Soft Skills - I	0	0	4	2	AEC
		Total Credits	24	0	10	29	

		Total Contact Hours	34				
Co-curricular & Extra Curricular Activities Communication Lab (1) + University/School Outdoor Activity (1)			34+2=36				
Semester - III							
Sr No	Course Code	Course Name	Periods			Credits	Category
			L	T	P		
1	BAE 201	Advance Microeconomics	4	0	0	4	Major
2	BAE 202	Advance Macroeconomics	4	0	0	4	Major
3	BAE 203	Statistical Method-II	4	0	0	4	Major
4	BAE 204	Mathematical Method for Economics- II	4	0	0	4	Major
5	BAE 205	Environmental Studies	4	0	0	4	VAC
6	BAE 206	Political Economy	4	0	0	4	Minor
7	BAE 207 P	Data Analysis	2	0	2	3	AEC
8	BAE 208	Research Methodology	4	0	0	4	SEC
9	BAE 209 P	Personality Development And Soft Skills - II	0	0	2	1	AEC
		Total Credits	30	0	4	32	
		Total Contact Hours	34				
Co-curricular & Extra Curricular Activities Communication Lab (1) + University/School Outdoor Activity (1)			34+2=36				

Semester - IV							
Sr No	Course Code	Course Name	Periods			Credits	Category
			L	T	P		
1	BAE 210	Basic Econometrics	4	0	0	4	Major
2	BAE 211	Indian Economy-I	4	0	0	4	Major
3	BAE 212	Public Economics	4	0	0	4	Major
4	BAE 213	International Economics	3	0	0	3	Minor
5	BAE 214	Theory Of Income And Employment-II	4	0	0	4	Major
6	BAE 215	Ethical Principles And Practices	4	0	0	4	VAC
7	BAE 216	Banking Functions And Policies	3	0	0	3	Minor

8	BAE 217	Environmental Economics And Sustainable Business Practices	4	0	0	4	Minor
9	BAE 218	Law and Economics	3	0	0	3	Minor
		Total Credits	33	0	0	33	
		Total Contact Hours	33				
Co-curricular & Extra Curricular Activities IT Lab (1) + Communication Lab (1) + University/School Outdoor Activity (1)			33+3=36				
<p>After completion of Semester - IV students will undergo 6-8 weeks Summer Internship Program (SIP) in reputed Corporate/Industry. The Internship will be based on the choice and interests of students. It will be based on specialisation areas offered in the curriculum viz. (International Economics (INE), Financial Economics (FNE), Agricultural Economics (AGE), etc.</p> <p>On Completion of Summer Internship Program (SIP), a report has to be submitted. Presentation and Viva-Voce will be conducted in Semester - V as Course No. BAE 307.</p>							

Semester - V

Sr No	Course Code	Course Name	Periods			Credits	Category
			L	T	P		
1	BAE 301	Economics of Growth	4	0	0	4	Major
2	BAE 302	Indian Economy-II	4	0	0	4	Major
6	BAE 303	Energy Economics	4	0	0	4	Major
3		Elective-I	3	0	0	3	Minor
4		Elective-II	3	0	0	3	Minor
5	BAE 304	Economics of Infrastructure	4	0	0	4	Minor
7	BAE 305	Development Economics	4	0	0	4	Minor
8	BAE 306	Entrepreneurship & Start-Up Ecosystem	4	0	0	4	MDC
9	BAE 307	Summer Internship Report & Viva-Voce	0	0	0	6	
		Total Credits	30	0	0	36	
		Total Contact Hours	30				
Co-curricular & Extra Curricular Activities Communication Lab (1) + IT Lab (2) + Field Visit / Data Collection (3)			30+6=36				

Semester – VI

Sr No	Course Code	Course Name	Periods			Credits	Category
			L	T	P		
1	BAE 308	Industrial Economics	4	0	0	4	Major
2	BAE 309	Agricultural Economics	4	0	0	4	Major
3	BAE 310	Contemporary Economics Issues	4	0	0	4	SEC
4	BAE 311	Economic Forecasting and Analysis	4	0	0	4	Major
5		Elective-III	3	0	0	3	Minor
6		Elective-IV	3	0	0	3	Minor
7	BAE 312	Data Analytics With R	3	0	2	4	MDC
8	BAE 313 P	Career Skills	0	0	2	1	SEC
9	BAE 314	Team Building and Leadership	2	0	2	3	AEC
		Total Credits	27	0	6	30	
		Total Contact Hours	33				
Co-curricular & Extra Curricular Activities IT Lab (1) + Communication Lab (1) + University/School Outdoor Activity (1)			33+3=36				

Semester - VII (Hons.)

Sr No	Course Code	Course Name	Periods			Credits	Category
			L	T	P		
1	BAE (H) 401	Advanced Research Methodology	4	0	0	4	Major
2	BAE (H) 402	Financial Institutions	4	0	0	4	Minor
3	BAE (H) 403	Time Series and Panel Data Analysis	4	0	0	4	Major
4	BAE (H) 404	Industry and Innovation	4	0	0	4	Major
5	BAE (H) 405	Urban Economics	4	0	0	4	Minor
6	BAE (H) 406	Monetary Theory and Policy	4	0	0	4	Major
7		Elective-V	3	0	0	3	Minor
8	BAE (H) 407 P	Professional Etiquette Lab	2	0	2	4	AEC
9	BAE (H) 408 P	Advanced Career Skills	0	0	2	1	SEC
		Total Credits	29	0	4	32	
		Total Contact Hours	33				

Co-curricular & Extra Curricular Activities IT Lab (1) + Communication Lab (1) + University/School Outdoor Activity (1)	33+3=36	
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Semester - VIII (Hons.)

Sr No	Course Code	Course Name	Periods			Credits	Category
			L	T	P		
1	BAE (H) 409	Labour Economics	4	0	0	4	Major
2	BAE (H) 410 P	Practicum Economics	0	0	6	3	Minor
3	BAE (H) 411	Behavioural Economics	4	0	0	4	Major
4	BAE (H) 412	Population Studies	4	0	0	4	Major
5	BAE (H) 413	Rural Economics	4	0	0	4	Minor
6	BAE (H) 414 P	Research Paper Writing and Seminar (Presentation Skills)	2	0	2	3	Minor
7	BAE (H) 415	Research Publication Ethics	2	0	2	3	Minor
8	BAE (H) 416	Dissertation & Viva-Voce	0	0	0	12	
		Total Credits	20		10	37	
		Total Contact Hours	30				
Co-curricular & Extra Curricular Activities Communication Lab (1) + IT Lab (2) + Field Visit / Data Collection (3)			30+6=36				

LIST OF ELECTIVES

INTERNATIONAL ECONOMICS (INE)						
Sr No	Course Code	Course Name	Periods			Credits
			L	T	P	
1	INE 101 E	Custom Clearance and Procedure	3	0	0	3
2	INE 102 E	Trade Negotiation	3	0	0	3
3	INE 103 E	WTO Agreements	3	0	0	3
4	INE 104 E	Exchange Rate Regimes	3	0	0	3
5	INE 105 E	International Trade	3	0	0	3

FINANCIAL ECONOMICS (FNE)						
Sr No.	Course Code	Course Name	Periods			Credits
			L	T	P	
1	FNE 106 E	Financial Economics	3	0	0	3
2	FNE 107 E	Financial Econometrics	3	0	0	3
3	FNE 108 E	Economics of Insurance	3	0	0	3
4	FNE 109 E	Game Theory	3	0	0	3
5	FNE 110 E	International Finance	3	0	0	3

AGRICULTURAL ECONOMICS (AGE)						
Sr No.	Course Code	Course Name	Periods			Credits
			L	T	P	
1	AGE 111 E	Agribusiness and Cooperative Management	3	0	0	3
2	AGE 112 E	Agri Marketing	3	0	0	3
3	AGE 113 E	Agri Finance, Banking and Cooperatives	3	0	0	3
4	AGE 114 E	Farm Management	3	0	0	3
5	AGE 115 E	Agri Policy and Planning	3	0	0	3

PROGRAM SYLLABI
SEMESTER I

Course: INTRODUCTION TO MICROECONOMICS			Semester: I
Course Code: BAE 101	L T P	4 0 0	Credits: 4

OBJECTIVE	This course is designed to expose the students to the basic principles of microeconomic theory. The emphasis will be on thinking like an economist and the course will illustrate how microeconomic concepts can be applied to analyze real-life situations.		
LEARNING OUTCOME	<p>Upon completion of the course students should be able to:</p> <p>The course introduces the students to the first course in economics from the perspective of individual decision making as consumers and producers. The students learn some basic principles of microeconomics, interactions of supply and demand, and characteristics of perfect and imperfect markets.</p>		
COURSE DETAILS	Module No.	Topic	Hours
	1.	What is microeconomics? Scope and method of economics; the economic problem: scarcity and choice; the concept of opportunity cost; the question of what to produce, how to produce and how to distribute output; science of economics; institutions for allocating resources; the basic competitive model; prices, property rights and profits; incentives and information; rationing; positive versus normative analysis. The scientific method; the role of assumptions; models and mathematics; why economists sometimes disagree Interdependence and gains from trade; specialization and trade; absolute advantage; comparative advantage and trade	13
	2.	Supply and demand: How markets work, markets and welfare Markets and competition; determinants of individual demand/supply; demand/supply schedule and demand/supply curve; market versus individual demand/supply; shifts in the demand/supply curve, demand and supply together; how prices allocate resources; elasticity and its application; controls on prices; taxes and the costs of taxation; consumer surplus; producer surplus and the efficiency of the markets Application to international trade; comparison of equilibria with and without trade, the winners and losers from trade; effects of tariffs and quotas; benefits of international trade; some arguments for restricting trade	14
	3.	The Households The consumption decision - budget constraint, consumption and income/price changes, demand	12

		for all other goods and price changes; description of preferences (representing preferences with indifference curves); properties of indifference curves; consumer's optimum choice; income and substitution effects; labour supply and savings decision; choice between leisure and consumption	
	4.	"The firm and perfect market structure Behaviour of profit maximizing firms and the production process; short-run costs and output decisions; costs and output in the long-run. Imperfect Market Structure Monopoly and anti-trust policy; government policies towards competition; imperfect competition"	12
	5.	Input Markets Labour and land markets: Basic concepts (derived demand, productivity of an input, marginal productivity of labour, marginal revenue product); demand for labour; input demand curves; shifts in input demand curves; competitive labour markets; labour markets and public policy	09
		Total Hours	60
TEXT BOOK	1. Bernheim, B., Whinston, M., Microeconomics. McGraw-Hill. 2. Pindyck, R. S., Rubinfeld, D.L. and Mehta, P. L.; <i>Microeconomics</i> ; Pearson Education		
REFERENCE BOOK/ SUGGESTED READING	1. Samuelson, P.A. and Nordhaus, W.D.; <i>Economics</i> ; McGraw Hill 2. Browning, E.K., and Browning J.M.; <i>Microeconomic Theory and Applications</i> ; Kalyani Publishers 3. Salvatore, D.; <i>Microeconomic Theory</i> ; McGraw Hill 4. Mankiw, N. G.; <i>Principles of Microeconomics</i> ; Cengage Learning 5. Koutsoyiannis, A.; <i>Modern Microeconomics</i> ; Macmillan		

Course: INTRODUCTION TO MACROECONOMICS			Semester: I
Course Code: BAE 102	LTP	4 0 0	Credits: 4

OBJECTIVE	This is the first module in a three-module sequence that introduces students to the basic concepts of Macroeconomics. Macroeconomics deals with the aggregate economy. This course discusses the preliminary concepts associated with the determination and measurement of aggregate macroeconomic variable like GDP, savings, investment, money, inflation, and the balance of payments. It also introduces students to simple analytical frameworks (e.g., the IS-LM model) for determination of equilibrium output.		
LEARNING OUTCOME	This course aims to develop broad conceptual frameworks which will enable students to understand and comment upon real economic issues like inflation, money supply, GDP and their interlinkages. It will also allow them to critically evaluate various macroeconomic policies in terms of a coherent logical structure.		
COURSE DETAILS	Module No	Topic	Hours
	1	Introduction to macroeconomics and national income accounting Basic issues studied in macroeconomics: Measurement of gross domestic product; income, expenditure, and the circular flow; real versus nominal GDP; price indices; national income accounting for an open economy; balance of payments: current and capital accounts	15
	2	Money Functions of money; quantity theory of money; determination of money supply and demand; credit creation; tools of monetary policy	12
	3	Inflation: Inflation types and its social costs; hyperinflation causes, measure to control	10
	4	The closed economy in the short run Classical and Keynesian systems; simple Keynesian model of income determination; IS-LM model; fiscal and monetary multipliers	13
	5	The Open economy- IS-LM & BOP adjustment	10
		Total Hours	60
TEXT BOOK	1. Abel, A., Bernanke, B., Macroeconomics, Pearson Education. 2. Jones, C., Macroeconomics, W. W. Norton		
REFERENCE BOOK/ SUGGESTED READING	3. Blanchard, O., Macroeconomics, Pearson Education. 4. Dornbusch, R., Fischer, S., Startz, R., Macroeconomics, McGraw Hill. 5. Mankiw, N., Macroeconomics, Worth Publishers.		

Course: History of Economic Thought			Semester: I
Course Code: BAE 103	L T P	4 0 0	Credits: 4

OBJECTIVE	The purpose of this course is to provide information about the biography and contribution of the most influential economist who influenced the economic fraternity and to whom we are obliged to for shaping up the economic thought process.		
LEARNING OUTCOME	Students will get information about the genesis of economics and its modern scenario. Establish the relation of economic with other subjects.		
COURSE DETAILS	Module No.	Topic	Hours
	1.	Emergence of systems-cantillon —physiocracy, physiocrats—turgot, locke and hume on property—hume on money, general survey of smith's intentions—the wealth of nations: analytical-policy	13
	2.	Nineteenth-century classicism- general review—malthus on population, value and distribution: historical origin—analytical, overall equilibrium, international trade, john stuart mill	13
	3.	Other mid-nineteenth century thought mill (cont.)—saint-simon and marx, marx (cont.)—list and the historical school	11
	4.	Beginnings of modern analysis-the historical school (cont.)—precursors of change: cournot, von thünen, and rae, the marginal revolution: jevons and menger,	11
	5.	The marginal revolution (iii): costs (wieser)—the pricing of factor services (wieser, clark, wicksteed), walras—pareto, marshall, money: fisher, marshall, wicksell,	12
		Total Hours	60
TEXT BOOK	1. Negishi, T., <i>History of economic theory</i> . Elsevier. 2. Robbins, L., <i>A history of economic thought: the LSE lectures</i> . Princeton University Press. 3. Barber, W. J., <i>A history of economic thought</i> . Wesleyan University Press.		
REFERENCE BOOK/ SUGGESTED READING	1. Niehans, Jürg, <i>A history of economic theory</i> . Johns Hopkins University Press 2. Rubin, I. I., & Colliot-Thélène, C., <i>A history of economic thought</i> , London: Ink links. 3. Colander, D., <i>Complexity and the history of economic thought</i> . Routledge. 4. Roncaglia, A., <i>The wealth of ideas: a history of economic thought</i> . Cambridge University Press. 5. Brue, S. L., & Grant, R. R., <i>The evolution of economic thought</i> . Thomson/South-Western.		

Course: BASIC STATISTICS & MATHEMATICS			Semester: I
Course Code: BAE 104	L T P	4 0 0	Credits: 4

OBJECTIVE	The purpose of this course is to acquaint students with statistical use in the field of Economics. The field of economics depends greatly on the likelihood that something is going to happen.		
LEARNING OUTCOME	Upon completion of the course students should be able to: <ol style="list-style-type: none"> 1. Differentiate between various sampling techniques. 2. Utilize inferential statistics. 3. Calculate test statistics. 4. Use various test statistics to assess the significance of a model. 5. Recognize, describe, and calculate the measures of the center of data: mean, median, and mode. 6. Recognize, describe, and calculate the measures of the spread of data: variance, standard deviation, and range. 		
COURSE DETAILS	Module No	Topic	Hours
	1.	Introduction to Statistics: Meaning, Characteristics, Importance, Limitations of Statistics Collection of Data, Classification & Tabulation of Data, Diagrammatic & Graphic Presentation of Data	11
	2.	Measures of Central Tendency: Types of Averages: Arithmetic Mean, Weighted Arithmetic Mean, Median, Quartiles, Deciles, Percentiles, Mode, Interrelation between Mean, Median & Mode, Geometric Mean & Harmonic Mean	12
	3.	Measures of Dispersion: Range, Quartiles, Inter quartile Range, Mean Deviation, Standard Deviation, Coefficient of Variation & Lorenz Curve Moments, Skewness & Kurtosis	11
	4.	Measure of Association between Variables: Correlation Analysis-Meaning & types of Correlation, Methods of Correlation- Scatter Diagram, Karl Pearson & Rank Correlation.	10
	5.	Regression Analysis: Uses of Regression Analysis, Difference between Regression & Correlation Analysis. Regression Equations- X on Y & Y on X, Coefficients of Regression. Difference between Association & Correlation Notation & Terminologies, Consistency of Data, Methods of Association.	16
		Total Hours	60

TEXT BOOK	<ol style="list-style-type: none"> 1. Gupta, S.P., Statistical Methods, Sultan Chand Publishers, forty fourth ed. 2. Gupta, S.C. & Kapoor V.K., Fundamentals of Applied statistics, Sultan Chand Publishers, fourth ed. 3. Richard L. David. R., Sanjay. R, Masood H.S, Pearson.
REFERENCE BOOK/ SUGGESTED READING	<ol style="list-style-type: none"> 1. Fundamentals of Mathematical statistics By S.C. Gupta & V.K Kapoor, Sultan Chand Publishers. 2. An Introduction to Mathematical Statistics and its applications- Larsen Richard J, Prentice Hall, 3. Business Statistics by S.P. Gupta & M.P Gupta, by Sultan Chand Publishers.

Course: UNDERSTANDING BUSINESS ENVIRONMENT			Semester: I
Course Code: BAE 105	L T P	3 0 0	Credits: 3

OBJECTIVE	To familiarize the students with various Social, Political, Legal, Economic and Technological Factors which influence the Business Environment.		
LEARNING OUTCOME	Upon completion of the course students should be able to: <ol style="list-style-type: none"> 1. Understand the basic concepts of a business environment. 2. Identify the different environmental factors. 3. Analyze the responsiveness of companies to different factors in a business environment. 4. Identify the rules and regulations governing the business environment. 5. Compare the strategies of different companies based on different business environment 		
COURSE DETAILS	Module No.	Topic	Hours
	1.	Introduction: Concept, Significance and nature of Business Environment, Types of Environments, Difference between Internal and External Environments; Nature and Structure of Economy, Techniques for Environment Analysis, Approaches and Significance of Environment Forecasting.	08
	2.	Economic Environment of Business: Economic Environment, History of Economic Systems, Market, Planned and Mixed Economy, planning in India: Emergence and Objective, NITI Aayog, Monetary Policy and Fiscal Policy, Union Budget as instrument of Growth and its Impact on Business, Industrial Policy: Meaning, Objective and Recent Developments in New Economic Policy and its Impact on Business, Disinvestment in Public Sector Units.	12
	3.	Political Environment of Business: Politico-Legal Environment, Political Institutions: Legislature, Executive, and Judiciary, Relationship between Business and Government, Role of Government, Constitutional Provisions affecting Business.	09
	4.	Technological and Legal Environment of Business: Factors Influencing Technological Environment, Role and Impact of Technology on Business, Transfer of Technology: Channels, Methods and Limitations, Intellectual Property Rights and Trademarks, Competition Act, 2002, Information Technology Act, 2000, Consumer Protection Act, 1986,	10

		SEBI Act.	
	5.	Business and Social Environment: Population Size, Declining Birth Rate, Changing Age Structure and its Impact on Business, Business and Society, Business and Culture, Culture and Organisational Behavior, Consumerism, Social Responsibility of Business.	06
		Total Hours	45
TEXT BOOK	1. Paul, Justin.; <i>Business Environment</i> ; McGraw Hill 2. George, A. and Steiner, G.A.; <i>Business Environment and Society</i> ; Macmillan		
REFERENCE BOOK/ SUGGESTED READING	1. Aswathappa, K.; <i>Business Environment and Strategic Management</i> ; Himalaya Publishing House 2. Dhingra, I.C.; <i>Indian Economy: Environment and Policy</i> ; Sultan Chand and Sons 3. Cherunilam, Francis.; <i>Business Environment</i> ; Himalaya Publishing House		

Course: FINANCIAL MARKETS			Semester: I
Course Code: BAE 106	L T P	3 0 0	Credits: 3

OBJECTIVE	To familiarize the students with the financial markets of India, and their functioning and financial services provided.		
LEARNING OUTCOME	1. Defines the functions of financial markets and intermediary institutions. 2. Explain the structure of banking industry. 3. Explains functions of Central Banks and other forms of bank.		
COURSE DETAILS	Module No.	Topic	Hours
	1.	Introduction: Meaning, role & functions of a financial system. Organised and un-organized financial system. Financial assets and instruments, Financial intermediaries and Financial markets. Financial regulation in India.	11
	2.	Financial Markets in India: Capital Markets: Meaning, Role and Importance, Development Initiatives and Reforms, Composition: Primary and Secondary Market -- Meaning, Features, Objectives and Functions. Concept of book building for new issues. ASBA (Applications Supported by Blocked Amount) concept for subscribing to new issues. Money Markets: Functions, Players and Instruments in Money Market. Role and functions of SEBI as regulator. Listing of securities, stock market indices.	11
	3.	Financial Services: Meaning and concept, Need for financial services, various types of financial services, Fund based and non-fund based financial services, Characteristics and role of financial intermediaries.	11
	4.	Capital Market, Debt Market & Money Market: Function of the Primary Market, Intermediaries Functioning in the Primary Market; Functions of Secondary Market; Dematerialization, Listing and Trading Requirements, Settlements. Debt market in India, Participants in the debt market, Link between debt and money markets; Investment banking, Scope of advisory services offered by investment bankers, Investment banking in India.	12
		Total Hours	45
TEXT BOOK	1. Bhole, L.M. and Mahakud, J.; <i>Financial Institutions and Markets</i> ; McGraw Hill		

REFERENCE BOOK/ SUGGESTED READING	<ol style="list-style-type: none"> 1. Desai, Vasant; <i>The Indian Financial System and Development</i>; Himalaya Publishing House 2. Khan, M.Y.; <i>Indian Financial System</i>; McGraw Hill 3. Guruswamy, S.; <i>Financial Markets and Institutions</i>; McGraw Hill 4. Pathak, B.; <i>The Indian Financial System</i>; Pearson Education
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Course: SUSTAINABLE DEVELOPMENT			Semester: I
Course Code: BAE 107	L T P	3 0 0	Credits: 3

OBJECTIVE	The course aims to provide the learners an understanding of the key challenges and pathways to sustainable development i.e., also socially inclusive and environmentally sustainable.		
LEARNING OUTCOME	After completion of the course, learners will be able to: <ol style="list-style-type: none"> 1. Analyse key initiatives required to enhance the contribution of an organisation towards Sustainable Development. 2. Analyse the significance of various steps taken by UNDP to ensure Sustainable Development. 3. Assess the results of Smart Cities Mission Initiative of Government of India. 4. Examine the key achievements of National Programmes/Initiatives aligned with SDGs. 		
COURSE DETAILS	Module No.	Topic	Hours
	1.	Introduction: Sustainable Development: Meaning, Principles, History of Sustainable Development. Components of sustainability, Goal Based Development, Feasibility of Sustainable Development; Sustainable Development and International Contribution: International Summits, Conventions, Agreements. Triple Bottom Line approach. Environmental, social and governance (ESG) factors. Role of ICT in Sustainable Development. Community Engagement. Policy framework on Sustainable Development in India.	10
	2.	Sustainable Development Goals (SDGs)-I: Sustainable Development Goals (SDGs): Meaning, Background, Transition from Millennium Development Goals (MDGs) to SDGs. Role of UNDP; SDG Integration. SDGs (1-6): No Poverty, Zero Hunger, Good Health and Well-Being, Quality Education, Gender Equality, Clean Water and Sanitation. SDGs (1-6) in India: Key indicators of performance.	10
	3.	Sustainable Development Goals (SDGs)-II: SDGs (7-17): Affordable and Clean Energy, Decent Work and Economic Growth, Industry, Innovation and Infrastructure, Reduced Inequalities, Sustainable Cities and Communities, Climate Action, Life Below Water, Life on Land. Peace, Justice and Strong Institutions, Partnerships for the Goals. SDGs (7-17) in India: Key indicators of performance.	08

	4.	Responsible Production and Mindful Consumption: Responsible Production and mindful consumption: concept, rationale, implications, challenges and opportunities. Global initiatives on Sustainable Development by Industry: World Business Council for Business Development.	08
	5.	Responsible Investment Responsible Investment: concept, rationale, implications, challenges, and opportunities. Socially Responsible Investment: Green Bonds, Carbon Credits. Socially Responsible Mutual Funds. Global Reporting Initiatives.	09
		Total Hours	45
TEXT BOOK	1. Edwards, A. R., & Orr, D. W., The Sustainability Revolution: Portrait of a Paradigm Shift. British Columbia: New Society Publishers.		
REFERENCE BOOK/ SUGGESTED READING	1. Reid, D., Sustainable Development: An Introductory Guide. London: Earthscan Publications Ltd. 2. Rogers, P. P., Jalal, K. F., & Boyd, J. A. An Introduction to Sustainable Development. Abingdon: Routledge. 3. Stokke, O. Sustainable Development. Abingdon: Routledge.		

Course: OFFICE MANAGEMENT WITH MS-WORD AND MS-EXCEL			Semester: I
Course Code: BAE 108 P	L T P	0 0 4	Credits: 2

OBJECTIVE	To familiarize the students with the basic use of different types of office Management software's widely used in business organizations.		
LEARNING OUTCOME	On successful completion of the course, students will be able to: <ol style="list-style-type: none"> 1. Understand the evolution of computers and their basic technical terms. 2. Understand applications and use of MS Word and its features. 3. Learn the basics application of MS word for creating and formatting documents. 4. Learn the advanced application of MS word for merging documents and use of macros. 5. Learn the basics application of MS Excel for creating and formatting of documents. 		
COURSE DETAILS	Module No.	Topic	Hours
	1.	Computer Evolution: Characteristics of computers, Evolution of computers, Generation of computers, Classification of computers, Computer system, Components, Applications of computers, Memory, types of memory, software, types of software, computer language, peripheral devices.	05
	2.	Word Processing: Word processors, various types of word processing editors, MS word IDE. MS Word: Text Basics, Typing the text, Alignment of text, Editing Text: Cut, Copy, Paste, Select All, Clear, Find & Replace. Formatting Tools: Text Formatting and saving file, New, Open, Close, Save, Save As, Font Size, Font Style, Font Colour, Use the Bold, Italic, and Underline, Change the Text Case, Line spacing, Paragraph spacing, Shading text and paragraph, Working with Tabs and Indents Working with Objects: Shapes, Clipart and Picture, Word Art, Smart Art, Columns and Orderings - To Add Columns to a Document, Change the Order of Objects, Page Number, Date & Time, Inserting Text boxes, Inserting Word art, Inserting symbols, Inserting Chart, Tables, Working with Tables, Table Formatting, Merge and split option, Adding a Footnote, Adding Endnote.	08

	3.	Advanced MS Words Features: Mail Merge features, need of mail merge, business applications of mail merge, Merging Documents, Typing new address list, Importing address list from Excel file, Write and insert field, Conditional sorting, Preview Result, Merging to envelopes, Merging to label, Setting rules for merges, Equation editor, Macros and use of macros.	06
	4.	MS Excel: Introduction of MS Excel software, Business Applications, MS Excel IDE, Workbook, Sheets, cells, cell references, types of cell references, protecting the workbook, sheet, cell, Naming Cells, Working with excel workbook and sheets. Formatting Excel workbook: New, Open, Close, Save, Save As, Formatting Text: Font Size, Font Style, Font Color, Use the Bold, Italic, and Underline, format the cell, Wrap text, Merge and Centre, Currency, Accounting, and other formats	06
	5.	Use of Excel Functions: Perform Calculations with Functions, Creating Simple Formulas, Setting up your own formula, Date and Time Functions, Financial Functions, Logical Functions, Lookup and Reference, Functions Mathematical Functions, Statistical Functions, Text Functions.	05
		Total Hours	30
TEXTBOOKS:	1. Tiwari, H. N. and Jain, H.C; <i>Fundamentals of Computers and Information System</i> ; International Book House 2. Microsoft; <i>Microsoft Office 2016, Step by Step</i> ; Microsoft Press		
REFERENCE BOOK/ SUGGESTED READING	1. Norton, Peter; <i>Introduction to Computers</i> ; McGraw Hill 2. Walkenbach, John; <i>Microsoft Excel 2016 BIBLE</i> ; WILEY		

Course: ENGLISH COMMUNICATION - I			Semester: I
Course Code: BAE 109	L T P	2 0 2	Credits: 3

OBJECTIVE	To enhance students' ability to communicate effectively in the business world with special focus on writing and speaking skills. Students will develop effective speaking skills and learn to draft formal documents. They will also develop relevant soft skills in order to be effective in the corporate world.		
LEARNING OUTCOME	Upon completion of the course students should be able to: <ol style="list-style-type: none"> 1. Demonstrate skills related to the corporate world. 2. Learn the basics of formal communication. 3. Develops other essential skills required for the smooth functioning of any organization. 4. Create and effectively deliver oral presentations. 5. Demonstrate an understanding of global perspectives of business. 		
COURSE DETAILS	Module No.	Topic	Hours
	1	Fundamentals of Communication: <ol style="list-style-type: none"> a. Features of Indian/ colloquial English – Correction of sentences – structures of sentences – Tenses – identifying clichés and removing ambiguity – Idiomatic/phrasal distortions. b. Informal conversation Vs Formal expression, Types of Verbal Communication. Identifying barriers to effective communication and effective ways to overcome the barriers	08
	2	Business Communication/ Correspondence: <ol style="list-style-type: none"> a. Business Correspondence – Principles, Features, Types, Formats, and layout of Business Letter. b. Types of Business Correspondence – Letters of Enquiry, Quotation, Order, Instructions, Sales, Credit, Complaint, Adjustment, Collection, etc. c. Some more types of Business Correspondence-- Notice, Agenda, Minutes, Memorandum. Job Application letters -- Covering letter, Resume, Biodata and C.V. 	10

	3	Business Proposal and Business Report: <ol style="list-style-type: none"> Business Proposal – Introduction, purpose, features, types, format, importance, process of preparation. Writing Business Proposals. Business Report -- Features, Types, Style, Format, Relevance. Writing Business Reports. 	09
	4	Soft Skills: Kinesics, Para language, Proxemics. Presentation skills - Features, Types, Structure, Aids and Importance. Group Discussion skills - Features and Importance.	08
	5	Effective Presentation Skills: <ol style="list-style-type: none"> Management presentations – types of presentation – video conferencing – participation in meetings – chairing sessions. Formal and informal interviews- ambience and polemics – interviewing in different settings and for different purposes e.g. eliciting and giving information, recruiting, performance appraisal. 	10
		Total Hours	45
TEXT BOOK	<ol style="list-style-type: none"> Chaturvedi, Courtland L., Bovee J.V, Thill, Mukesh; Business Communication Today, Pearson Raymond V. Lesikav, John D. Pettit Jr.: Business Communication; Theory and Application, All India Traveller Bookseller, New Delhi Shirley Taylor and Chandra, V.; <i>Communication for Business</i>; Pearson Education 		
REFERENCE BOOK/ SUGGESTED READING	<ol style="list-style-type: none"> Rentz, Flatley and Lentz, Lesikar's Business Communication Connecting in a Digital World, New York. McGraw-Hill Irwin. Basic Communication Skills for Technology, Andre J. Rutherford: Pearson Education Asia Edmund H Weiss: Writing Remedies: Practical Exercises for Technical Writing. Universities Press, Hyderabad Ronald E. Duleck and John S. Fielden.; <i>Principles of Business Communication</i>. Macmillan. Herta A Murphy and Herbert W. Hildebrandt.; Effective Business Communication; McGraw-Hill, Inc. 		

SEMESTER II

Course: INTERMEDIATE MICROECONOMICS			Semester: II
Course Code: BAE 110	L T P	4 0 0	Credits: 4

OBJECTIVE	The course is designed to provide sound training in microeconomic theory to formally analyze the behaviour of individual agents. Since students are already familiar with the quantitative techniques in the previous semesters, mathematical tools are used to facilitate understanding of the basic concepts. This course looks at the behaviour of the consumer and the producer and also covers the behaviour of a competitive firm.		
LEARNING OUTCOME	Upon completion of the course students should be able to: The course trains the students of Economics about the basic elements of consumer theory and production theory and the functioning of perfectly competitive market. This course aims to give students a solid grasp of microeconomic analysis at the intermediate level using mathematical techniques where appropriate.		
COURSE DETAILS	Module No.	Topic	Hours
	1.	Consumer theory. Preference; utility; budget constraint; choice; demand; Slutsky equation; buying and selling; choice under risk and intertemporal choice; revealed preference	13
	2.	Production, costs and perfect competition Technology; isoquants; production with one and more variable inputs; returns to scale; short run and long run costs; cost curves in the short run and long run; review of perfect competition	14
	3.	General equilibrium, efficiency and welfare Equilibrium and efficiency under pure exchange and production; overall efficiency and welfare economics	12
	4.	Market structure and game theory Monopoly; pricing with market power; price discrimination; peak-load pricing; two-part tariff; monopolistic competition and oligopoly; game theory and competitive strategy	12
	5.	Market failure Externalities; public goods and markets with asymmetric information	09
		Total Hours	60
TEXT BOOK	1. Bernheim, B., Whinston, M., Microeconomics, McGraw Hill. 2. Pindyck, R. S., Rubinfeld, D.L. and Mehta, P. L.; <i>Microeconomics</i> ; Pearson Education		

REFERENCE BOOK/ SUGGESTED READING	<ol style="list-style-type: none">1. Samuelson, P.A. and Nordhaus, W.D.; <i>Economics</i>; McGraw Hill2. Browning, E.K., and Browning J.M.; <i>Microeconomic Theory and Applications</i>; Kalyani Publishers3. Salvatore, D.; <i>Microeconomic Theory</i>; McGraw Hill4. Mankiw, N. G.; <i>Principles of Microeconomics</i>; Cengage Learning5. Koutsoyiannis, A.; <i>Modern Microeconomics</i>; Macmillan
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Course: INTERMEDIATE MACROECONOMICS			Semester: II
Course Code: BAE 111	L T P	4 0 0	Credits: 4

OBJECTIVE	This is the second module of a three-module sequence on Macroeconomics. This course introduces students to formal modeling of macroeconomy in terms of analytical tools. It discusses various alternative theories of output and employment determination in a closed economy in the short run as well as medium run, and the role of policy in this context.		
LEARNING OUTCOME	This course enables students to analyse the macroeconomic performance of various countries using formal analytical tools. It also allows them to evaluate important macroeconomic policies and their implications. It also introduces students to various micro-founded theories of macro behaviour, e.g., consumption and investment behaviour of households and the demand for money generated in the household sector.		
COURSE DETAILS	Module No.	Topic	Hours
	1.	The labour market Wage determination; wages, prices, and employment; natural rate of unemployment; from employment to output	12
	2.	Aggregate demand and aggregate supply curves Derivation of aggregate demand and aggregate and supply curves; interaction of aggregate demand and supply to determine equilibrium output, price level and employment	12
	3.	Inflation, unemployment and expectations Phillips curve; adaptive and rational expectations; policy ineffectiveness debate	12
	4.	Microeconomic foundations Consumption: Keynesian consumption function; Fisher's theory of optimal intertemporal choice; lifecycle and permanent income hypotheses; rational expectations and random walk of consumption expenditure	12
	5.	Investment: determinants of business fixed investment; residential investment and inventory investment	12
		Total Hours	60
TEXT BOOK	1. Abel, A., Bernanke, B., Macroeconomics, Pearson Education. 2. Blanchard, O., Macroeconomics, Pearson Education. 3. Dornbusch, R., Fischer, S., Startz, R., Macroeconomics, McGraw Hill.		

REFERENCE BOOK/ SUGGESTED READING	<ol style="list-style-type: none"> 1. Jones, C., Macroeconomics, W. W. Norton. 2. Mankiw, N., Macroeconomics, Worth Publishers
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Course: MATHEMATICAL METHODS FOR ECONOMICS-I			Semester: II
Course Code: BAE 112	L T P	4 0 0	Credits: 4

OBJECTIVE	The objective of this sequence is to transmit the body of basic mathematics that enables the study of economic theory at the undergraduate level, specifically the courses on microeconomic theory, and macroeconomic theory.		
LEARNING OUTCOME	Upon completion of the course students should be able to: <ol style="list-style-type: none"> 1. Use mathematical techniques to analyse economic problems. 2. Model economic questions in mathematical framework. 3. Evaluate range of problems using mathematical techniques. 4. Acquire mathematical skills used in economic analysis. 		
COURSE DETAILS	Module No.	Topic	Hours
	1.	Number System and Mathematical logic: Introduction, Real numbers, Integers, Rational & Irrational Numbers, Statements: Logical connectivity, Conjunction, disjunction, Negation, Truth & False tablet, Autology and Contradiction, Logical equivalence.	11
	2.	Set Theory: Introduction, Sets and their Representation, Types of Sets, Subset, Venn diagram and Application of Sets, Cartesian Product	12
	3.	Functions & Relations (One Variable Function): Meaning, Types: Polynomial, Linear, Quadratic, Exponential, Log, Power. Different types of graphs. Sequence and Series. Limit & Continuity	11
	4.	Matrix Algebra Types, Matrix operations Addition, Subtraction and Multiplication. Rank of Matrix. Determinants: Matrix inversion, Crammer's Rule. Vector Spaces: algebraic and geometric properties, scalar products, norms, orthogonality; linear transformations	10
	5.	Differentiation: Definition, Derivative of a function, Rules of Differentiation, Second and Higher order derivatives, Properties, and application.	16
		Total Hours	60
TEXT BOOK	1. K. Sydsaeter and P. Hammond, Mathematics for Economic Analysis, Pearson Educational Asia, Delhi, 2002.		
REFERENCE BOOK/ SUGGESTED READING	<ol style="list-style-type: none"> 1. Mathematics for Economists-Simon & Blume 2. Fundamental Method of Mathematical Economics-Alpha Chiang 		

Course: HUMAN RESOURCE DEVELOPMENT			Semester: II
Course Code: BAE 113	L T P	4 0 0	Credits: 4

OBJECTIVE	The course highlights the importance of Planning and Development of Human Resources for upgrading the organization's system & growth.		
LEARNING OUTCOME	Upon completion of the course students should be able to: <ol style="list-style-type: none"> 1. understand how to develop employees for achieving personal and organizational goals. 2. Analyse the strategic issues and strategies required in manpower planning. 3. Make sound career decisions by getting acquainted with individual and organizational development tools. 4. Develop skills to address the realities of organizations while developing context specific strategies for human resource development. 5. Learn the techniques of HRD program application and trends like Competency mapping, Balanced Score Card etc. 		
COURSE DETAILS	Module No.	Topic	Hours
	1.	Human Resource Planning: Human Resource Planning: Objectives, Concept and Importance, Human Resource Planning Process, Human Resource Forecasting Process, Techniques of Ascertaining HR Demand: Trend Analysis, Delphi Technique, Nominal Group Technique, HR Budgets, Downsizing and Restructuring.	10
	2.	Career Planning: Concept, Objective, Career Stages, Significance of Career Planning, Need and Components of Career Planning, Succession Planning: Evolution and Importance, Succession Management Process, Process of Career Planning and Career Development	10
	3.	Human Resource Development (HRD): HRD: Concept, Origin and Need, Relationship between Human Resource Management and Human Resource Development; HRD as a Total System; Activity Areas of HRD: Training, Education and Development; Roles and competencies of HRD Professionals.	10
	4.	Human Resource Development Process (HRDP): Assessing the need for HRD; Designing and Developing Effective HRD Programs; Implementing HRD Programs; Evaluating HRD Programs. Training and Development: Need, Design, Conduct and Evaluation.	12

	5.	Application and Assessment of Human Resource Development Program: HRD Applications: Coaching and Mentoring, Career Management and Development; Employee Counselling; Competency Mapping, High Performance Work Systems, Balanced Score Card, Appreciative Inquiry. Integrating HRD with Technology. HRD Assessment: Data Gathering; Analysis and Feedback.	12
	6	Issues in Human Resource Planning and Development: Challenges and Contemporary Issues in Human Resource Planning and Development	06
		Total Hours	60
TEXT BOOK	1. Belcourt, M. and McBey, K.J.; <i>Strategic Human Resource Planning</i> ; Cengage Learning		
REFERENCE BOOK/ SUGGESTED READING	1. Bhattacharyya, D.K., <i>Human Resource Planning</i> ; Excel Books 2. Werner, J.M. and DeSimone, R.L.; <i>Human Resource Development: Foundation, Framework and Application</i> ; Southwestern 3. Rao, T.V.; <i>Human Resource Development</i> ; Oxford University Press 4. Rao, T.V.; <i>Future of HRD</i> ; Macmillan Publishers India 5. Werner, J. M., & DeSimone, R. L.; <i>Human Resource Development</i> ; Cengage Learning		

Course: THEORY OF INCOME AND EMPLOYMENT-I			Semester: II
Course Code: BAE 114	L T P	4 0 0	Credits: 4

OBJECTIVE	The objective of this course is to provide students with a thorough understanding of the fundamental principles of macroeconomics that establishes the functional relationship between large aggregates. This course also looks at the determination of income and employment, consumption function, theories of investment, multiplier and accelerator.		
LEARNING OUTCOME	<p>On completion of this course, the students will be able to:</p> <ol style="list-style-type: none"> 1. Evaluate the circular flow of income and expenditure in various sectors of the economy. 2. Measure and analyze the income and employment determination under classical and Keynesian economics. 3. Conceptualize the various terminologies used in national income, consumption and investment. 4. Understand the concepts of consumption and investment and evaluate its determining factors. 5. Learn the concepts of multiplier and accelerator and determine the income involving government expenditure and tax multipliers. 		
COURSE DETAILS	Module No.	Topic	Hours
	1.	National Income Accounting: National Income: Concepts, measurement and limitations; circular flow of income in two, three and four sector economy; Real versus nominal GDP; Green accounting versus social accounting; National income and economic welfare.	12
	2.	Income and employment Determination: Determination of income and employment: Classical theory of income and employment; Say's law of market; Wage-price flexibility;	12
	3.	Theory of money: Quantity theory of money; Implications and limitations of classical theory; Keynes theory of income and employment.	10
	4.	Consumption Theories: Consumption: Average and Marginal Propensity to consume; Consumption function puzzle; psychological law of consumption and its implications; Kuznet's findings, Paradox of thrift; Theories of consumption; Absolute Income hypothesis, Relative Income Hypothesis, Permanent income hypothesis, Life cycle Hypothesis.	14

	5.	Investment Theories: Investment: Autonomous and Induced investment; Theories of investment: Classical and Keynesian approaches; Multiplier; Concept, Investment multiplier, Government Expenditure Multiplier, Tax Multiplier; Leakages of multiplier; Acceleration theory; Super multiplier	12
		Total Hours	60
TEXT BOOK	1. Pindyc, Robert, S, Microeconomics, Pearson Education, New Delhi. 2. Mankiw N. Gregory, Macroeconomics, Worth Publishers.		
REFERENCE BOOK/ SUGGESTED READING	3. Ackley, G, Macroeconomics: Theory and Policy, Macmillan, New York 4. Andrew B. Abel and Ben S. Besanke, Macroeconomics, Pearson Education, Inc 5. Chauhan, S.P.S, Microeconomics, Advanced treatise, PHI 6. Keynes, J.M. The General Theory of Employment, Interest and Money, Macmillan, London. 7. Shapiro, E, Principles of Macroeconomics, Oxford University Press. 8. Stiglitz J. E. and Carl, Macroeconomic Analysis, Galgotia Publication, New Delhi.		

Course: MONEY AND FINANCE			Semester: II
Course Code: BAE 115	L T P	4 0 0	Credits: 4

OBJECTIVE	This course exposes students to the theory and functioning of the monetary and financial sectors of the economy. It highlights the organization, structure and role of financial markets and institutions. It also discusses interest rates, monetary management and instruments of monetary control. Financial and banking sector reforms and monetary policy with special reference to India are also covered.		
LEARNING OUTCOME	Student will understand the functioning of monetary and financial sector of the economy, structure and role of financial market and their institutions, monetary management and instrument of money control, monetary management, financial and banking sector reforms in India.		
COURSE DETAILS	Module No.	Topic	Hours
	1.	Money: Concept, functions, measurement; theories of money supply determination, RBI approach to money supply; High powered money and money multiplier	12
	2.	Instruments and Financial Innovations: Role of financial markets and institutions Structure of money market and capital market — Call money market. Treasury bill market, Commercial bill market including commercial paper and certificate of deposits, Government securities market, Primary and secondary market for securities. Financial sector Reforms in India.	12
	3.	Interest Rates Determination: Interest Rates Determination, Sources of interest rate differentials; theories of term structure of interest rates; interest rates in India	12
	4	Stock Markets: Stock markets and its operations, stock market index, methods for calculating stock market index, methodologies for calculating stock market index, stock market indices in India, BSE Sensex, NSE Nifty.	12
	5	Banking System: Meaning and types; Functions of commercial banks; the process of credit creation and its limitations; Balance sheet and portfolio management, banking sector reforms Central Banking and Monetary Policy: Central Banking: Function of the Central Bank, Monetary policy: objectives, indicators and instruments of monetary control. Monetary management in an open	12

		economy, current monetary policy of India	
		Total Hours	60
TEXT BOOK	<ol style="list-style-type: none"> 1. Melvin, M., & Norrbin, S. C., <i>International money and finance</i>. Academic Press. 2. Esposito, E. <i>The future of futures: the time of money in financing and society</i>. Edward Elgar Publishing. 3. Shubik, M., <i>The theory of money and financial institutions</i>, Mit Press. 		
REFERENCE BOOK/ SUGGESTED READING	<ol style="list-style-type: none"> 1. Tobin, James. "Money and finance in the macroeconomic process." <i>Journal of money, credit and banking</i>. 2. De Bruin, B., Herzog, L., O'Neill, M., & Sandberg, J., Philosophy of money and finance. 3. Godley, W., <i>Money, finance, and national income determination: An integrated approach</i> (No. 167). Working paper. 4. Hubbard, R. G., Money, the financial system, and the economy. 		

Course: OFFICE MANAGEMENT WITH ADVANCE MS-EXCEL AND POWERPOINT			Semester: II
Course Code: BAE 116 P	L T P	004	Credits: 2

OBJECTIVE	To familiarize the students with the basic use of different types of office Management software's widely used in business organizations.		
LEARNING OUTCOME	On successful completion of the course, students will be able to: 1) Understand the evolution of computers and their basic technical terms. 2) Understand applications and use of MS Excel and its features. 3) Learn the basics application of MS Excel and use of functions and formulas. 4) Learn the advanced applications of MS Excel like data analysis and visualization. 5) Learn the basics application of MS Power point for creating official presentations.		
COURSE DETAILS	Module No.	Topic	Hours
	1.	MS Excel : Proofing of Worksheet ,Data Analysis and Visualization: Protecting and sharing the workbook, Protecting a workbook with a password, Allow user to edit ranges, Proofing and Printing, Page setup, Setting print area, Print titles, Inserting custom Header and Footer, Inserting objects in the header and footer, Page Setup, Setting margins, Print Preview, Print, Enable back ground error checking. Sort and Filter Data with Excel, Sort and filtering data , Using number filter, Text filter, Custom filtering , Removing filters from columns, Conditional formatting, Create Effective Charts to Present Data Visually , types of chart: Column, Pie chart etc. , Create an effective chart with Chart Tool, Design, Format, and Layout options, Adding chart title , Changing layouts , Chart styles , Editing chart data range, , Changing chart.	07
	2.	MS Excel Formula and Functions: Filter, Vlookup, Hlookup, Exact, Frequency, Advance Statistical Function, Conditional Function, Nested IF function, Nested Function, Data Analysis Tool, What IF Analysis: Goal Seek, Scenario Manager, Data Table, PMT, PPMT.	06
	3.	MS Excel tools for Quick Decision Making: Introduction of Pivot tables, need of Pivot Tables, Analyse Data Using PivotTables and Pivot Charts, Understand PivotTables, Create a PivotTable, Framework Using the	05

		PivotTable and PivotChart, Create Pivot Chart from pivot Table.	
	4.	MS POWERPOINT: Introduction: Setting Up PowerPoint Environment: New, Open, Close, Save, Save As, Typing the text, Alignment of text, Formatting Text: Font Size, Font Style, Font Color, Use the Bold, Italic, and Underline, Cut, Copy, Paste, Select All, Clear text, Find & Replace, Working with Tabs and Indents	05
	5.	Making the Presentations: Creating slides and applying themes, inserting new slide Changing layout of slides, duplicating slides, Copying and pasting slide, applying themes to the slide layout, changing theme color, Slide background, Formatting slide background, Using slide views, Working with bullets and numbering, Multilevel numbering and Bulleting, Creating List, Page bordering, Page background, Aligning text, Text directions, Columns option. Shapes, Clipart and Picture, Word Art, Smart Art, Change the Order of Objects, inserting slide header and footer, Inserting Text boxes, inserting shapes, using quick styles, Inserting Word Art, inserting symbols, Inserting Chart, Hyperlinks and Action Buttons, Inserting Hyperlinks and Action Buttons, Edit Hyperlinks and Action Button, Word Art and Shapes, transition features, animation features.	07
		Total Hours	30
TEXT BOOK	1. Walkenbach, John; <i>Microsoft Excel 2016 BIBLE</i> ; WILEY 2. Microsoft; <i>Microsoft Office 2016, Step by Step</i> ; Microsoft Press		
REFERENCE BOOK/ SUGGESTED READING	1. Norton, Peter; <i>Introduction to Computers</i> ; McGraw Hill		

Course: ENGLISH COMMUNICATION - II			Semester: II
Course Code: BAE 117 P	L T P	0 0 2	Credits: 1

OBJECTIVE	The objective of the course is to develop among students a vast understanding of communication and its different dimensions.		
LEARNING OUTCOME	Upon completion of the course students should be able to: <ol style="list-style-type: none"> 1. Understand the concept of Personality. 2. Learn what personal grooming pertains. 3. Explore communication beyond language. 4. Learn to manage oneself while communicating. 5. Acquire good communication skills and develop confidence. 		
COURSE DETAILS	Module No.	Topic	Hours
	1.	Personality and Personal Grooming: Understanding Personality, Definition and Meaning of Personality, Types of Personality, Components of Personality, Determinants of Personality, Assessment of Personality Grooming Self, Dress for success Make up & skincare, Hair care & styles for formal look, Art of accessorizing, Oral Hygiene.	05
	2.	Body Language and Behaviour: Concept of human behavior, Individual and group behavior, Developing Self-Awareness, Behavior and body language, Dimensions of body language: Proxemics, Haptics Oculistics Paralanguage Kinesics, Sign Language Chromatics, Chronemics Olfactics, Cultural differences in Body Language, Business Etiquette & Body language, Body Language in the Post Corona Era	05
	3.	Art of Good Communication: Communication Process, Verbal and Non-verbal communication, 7 Cs of effective communication, Barriers to communication, Paralinguistics Pitch, Tone Volume Vocabulary Word stress Pause, Types of communication Assertive, Aggressive Passive, Listening Skills, Questioning Skills, Art of Small Talk, Email Writing.	05
		Total Hours	15
TEXT BOOK	1. Cloninger, S.C., "Theories of Personality: Understanding Person", Pearson, New York.		
REFERENCE BOOK/ SUGGESTED READING	<ol style="list-style-type: none"> 1. Luthans F, "Organizational Behaviour", McGraw Hill, New York. 2. Barron, R.A. & Brian D, "Social Psychology", Prentice Hall of India. 3. Adler R.B., Rodman G. & Hutchinson C.C., "Understanding Human Communication", Oxford University Press: New York. 		

Course: PERSONALITY DEVELOPMENT AND SOFT SKILLS - I			Semester: II
Course Code: BAE 118 P	L T P	0 0 4	Credits: 2

OBJECTIVE	The objective of the course is to develop among students a vast understanding of communication and its different dimensions.		
LEARNING OUTCOME	Upon completion of the course students should be able to: <ol style="list-style-type: none"> 1. Understand the concept of Personality. 2. Learn what personal grooming pertains. 3. Learn to make a good resume and prepare effectively for interview. 4. Learn to perform effectively in group discussions. 5. Explore communication beyond language. 6. Learn to manage oneself while communicating. 7. Acquire good communication skills and develop confidence. 		
COURSE DETAILS	Module No.	Topic	Hours
	1.	Personality and Personal Grooming: Understanding Personality, Definition and Meaning of Personality, Types of Personality, Components of Personality, Determinants of Personality, Assessment of Personality Grooming Self, Dress for success Make up & skincare, Hair care & styles for formal look, Art of accessorizing, Oral Hygiene.	08
	2.	Interview Preparation and Group Discussion: Meaning and Types of Interviews [Face to Face, Telephonic, Video], Interview procedure [Opening, Listening, Closure], Preparation for Interview Resume Writing, LinkedIn Etiquette, Meaning and methods of Group Discussion, Procedure of Group Discussion, Group Discussion simulation, Group discussion common error.	08
	3.	Body Language and Behaviour: Concept of human behavior, Individual and group behavior, Developing Self-Awareness, Behavior and body language, Dimensions of body language: Proxemics, Haptics Oculesics Paralanguage Kinesics, Sign Language Chromatics, Chronemics Olfactics, Cultural differences in Body Language, Business Etiquette & Body language, Body Language in the Post Corona Era, Virtual Meeting Etiquette, Social Media Etiquette.	08
	4.	Art of Good Communication: Communication Process, Verbal and Non-verbal communication, 7 Cs of effective communication, Barriers to	06

		communication, Paralinguistics Pitch, Tone Volume Vocabulary Word stress Pause, Types of communication Assertive, Aggressive Passive, Listening Skills, Questioning Skills, Art of Small Talk, Email Writing.	
		Total Hours	30
TEXT BOOK	1. Cloninger, S.C., “Theories of Personality: Understanding Person”, Pearson, New York.		
REFERENCE BOOK/ SUGGESTED READING	1. Luthans F, “Organizational Behaviour”, McGraw Hill, New York. 2. Barron, R.A. & Brian D, “Social Psychology”, Prentice Hall of India. 3. Adler R.B., Rodman G. & Hutchinson C.C., “Understanding Human Communication”, Oxford University Press: New York.		

SEMESTER III

Course: ADVANCE MICROECONOMICS			Semester: III
Course Code: BAE 201	L T P	4 0 0	Credits: 4

OBJECTIVE	The course is designed to provide a sound training in microeconomic theory to formally analyze the General equilibrium and Welfare economics, Concept of monopoly, Oligopoly model, the theory of asymmetric information		
LEARNING OUTCOME	Upon completion of the course students should be able to: The course introduces the students to the first course in economics from the perspective of general equilibrium, concept of monopoly, oligopoly model, theory of asymmetry information.		
COURSE DETAILS	Module No.	Topic	Hours
	1.	General Equilibrium and Welfare Economics: Marginal conditions for pareto optimal resource allocation, perfect competition and pareto optimality- Arrows impossibility theorem	13
	2.	Concept of Monopoly: majors of monopoly power, price discrimination-types and classification of price discrimination (degree of price discrimination) - equilibrium under discriminating monopoly-regulation of monopoly market, product differentiation in monopolistic competition- chamberlain's alternative approach, equilibrium under monopolistic competition-excess capacity	12
	3.	The Cournot Model: Meaning and characteristic of oligopoly market- rigid prices - the sweezy model of kinked demand curve -collusive oligopoly- collusion policy- cartel: centralised and markets sharing cartel	12
	4.	Imperfect Collusion: Price leadership model game theory - prisoner's dilemma, Nash equilibrium and dominant strategy equilibrium.	12
	5.	The theory of Asymmetric Information: The market for lemons and adverse selection - risk preference and expected utility the problem of moral hazard-market signalling-principal agent problem	11
		Total Hours	60
TEXT BOOK	1. Bernheim, B., Whinston, M., Microeconomics. McGraw-Hill. 2. Pindyck, R. S., Rubinfeld, D.L. and Mehta, P. L.; <i>Microeconomics</i> ;		

	<p>Pearson Education</p> <p>3. Walter Nicholson and Christopher Snyder. Microeconomic Theory: Basic Principles and Extensions.</p> <p>4. Michael R. Baye and Jeffrey T. Prince, Managerial Economics and Business Strategy.</p>
REFERENCE BOOK/ SUGGESTED READING	<p>1. Samuelson, P.A. and Nordhaus, W.D.; <i>Economics</i>; McGraw Hill</p> <p>2. Browning, E.K., and Browning J.M.; <i>Microeconomic Theory and Applications</i>; Kalyani Publishers</p> <p>3. Salvatore, D.; <i>Microeconomic Theory</i>; McGraw Hill</p> <p>4. Mankiw, N. G.; <i>Principles of Microeconomics</i>; Cengage Learning</p> <p>5. Koutsoyiannis, A.; <i>Modern Microeconomics</i>; Macmillan</p>

Course: ADVANCE MACROECONOMICS			Semester: III
Course Code: BAE 202	LTP	4 0 0	Credits: 4

OBJECTIVE	This is the second module of a three-module sequence on Macroeconomics. This course introduces students to formal modeling of macroeconomy in terms of analytical tools. It discusses various alternative theories of output and employment determination in a closed economy in the short run as well as medium run, and the role of policy in this context. It also introduces students to various micro-founded theories of macro behaviour, e.g., consumption and investment behaviour of households and the demand for money generated in the household sector.		
LEARNING OUTCOME	Students will be able to: To analyse the macroeconomic performance of various countries using formal analytical tools. It also allows them to evaluate important macroeconomic policies and their implications.		
COURSE DETAILS	Module No.	Topic	Hours
	1	Theory of money and Interest Money: Defination, kind and function. The supply of money, The classical theory, The keynsian theory	09
	2	The post Keynesian theories of demand for money	08
	3	Business cycles Real business cycle theory; new Keynesian models of sticky prices, Theores of Business cycle	13
	4	Open economy models Short-run open economy models; Mundell-Fleming model; exchange rate determination; purchasing power parity; asset market approach; Dornbusch's overshooting model; monetary approach to balance of payments; international financial markets	15
	5	Fiscal and monetary policy Active or passive; monetary policy objectives and targets; rules versus discretion: time consistency; the government budget constraint; government debt and Ricardian equivalence	15
		Total Hours	60
TEXT BOOK	1. Dornbusch, R., Fischer, S., Startz, R. (2018). Macroeconomics, McGraw Hill 2. Mankiw, N., Macroeconomics, Worth Publishers. 3. Blanchard, O., Macroeconomics, Pearson Education		
REFERENCE BOOK/ SUGGESTED READING	1. Abel, A., Bernanke, B., Macroeconomics, Pearson Education. 2. Branson, W., Macroeconomics: Theory and policy, East West Press. 3. Jones, C., Macroeconomics, W. W. Norton 4. D N Dwivedi, Macro Economics Theory and Policy		

Course: STATISTICAL METHOD-II			Semester: III
Course Code: BAE 203	L T P	4 0 0	Credits: 4

OBJECTIVE	This course is the second part of a compulsory sequence. The purpose of this course is to acquaint students with the statistical use in the field of Economics.		
LEARNING OUTCOME	Upon completion of the course students should be able to: <ol style="list-style-type: none"> 1. Understand the have the basic knowledge on data collection and various statistical elementary tools. 2. Apply the theoretical discrete and continuous probability distributions like binomial, Poisson, etc., in the relevant application areas. 3. Find the inter-relation between two or more phenomena with the help of curve fitting and correlation-regression analysis. 4. Understand the basic components of sampling and have the knowledge on exact sampling distributions which are essential for estimating and testing hypothetical statements. 		
COURSE DETAILS	Module No.	Topic	Hours
	1.	Elementary Probability Theory & its Distribution: Meaning, Basic Terminologies, Approaches of Probability, Probability Rules & Laws, Baye's Theorem, Probability Distribution- Normal, Binomial & Poisson Distribution.	11
	2.	Sampling, Sampling Distribution & Statistical Inference: Principal Steps in a sample survey, Methods of Sampling, Properties of random samples. Standard Error & Sampling Distribution. Defining Hypothesis: Type I & Type II Errors, Tests of Significance for Small Samples & Large Samples. (Student's T test, Z test, F Test, Chi- Square, ANOVA-One way & Two-Way classification.)	12
	3.	Time Series Analysis: Components, Measurement of Trends by Moving Average and the Least Square Method, Shifting the Trend Origin, Conversion of Trend Values.	11
	4.	Index Numbers: Meaning, Methods of Index number calculation: Laspeyres' Paasches' Dorbish & Bowley, Fisher's, Marshall Edge worth, Kelly Methods, Chain Index Number,	10
	5.	Vital Statistics & Basic Statistical Procedures: Meaning, Uses of Vital Statistics, Methods of obtaining Vital Statistics. Measurements of Fertility- CBR, GFR, SFR, TFR Measurement of Mortality - CDR, SDR, STDR, IMR Mortality tables & its Uses.	16
		Total Hours	60

TEXT BOOK	<ol style="list-style-type: none">1. Singh s., Business Statistics, Wiley.2. An Introduction to Mathematical Statistics and its applications- Larsen Richard J, Prentice Hall.
REFERENCE BOOK/ SUGGESTED READING	<ol style="list-style-type: none">1. Fundamentals of Mathematical statistics By S.C. Gupta & V.K Kapoor, Sultan Chand Publishers.2. Business Statistics by S.P. Gupta & M.P Gupta, by Sultan Chand Publishers.3. Gupta, S.P., Statistical Methods, Sultan Chand Publishers.4. Gupta, S.C. & Kapoor V.K., Fundamentals of Applied statistics, Sultan Chand Publishers.

Course: MATHEMATICAL METHODS FOR ECONOMICS-II			Semester: III
Course Code: BAE 204	L T P	4 0 0	Credits: 4

OBJECTIVE	The course is designed to develop mathematical abilities of students to solve economics related practical problems with quantitative tools.		
LEARNING OUTCOME	Upon completion of the course students should be able to: <ol style="list-style-type: none"> 1. Understanding major concepts of Linear Algebra and Real Analysis. 2. To appreciate the criticality of the role of mathematical assumptions in economic modelling. 3. To provide foundations of major techniques to solve optimization problems in economics. 4. To familiarize students with logical arguments and proofs. 		
COURSE DETAILS	Module No.	Topic	Hours
	1.	Integration: Meaning, Basic rules, Definite integrals, Application in economic areas.	11
	2.	Multi-variable Optimization: Maxima, Minima, Concept of Convexity and concavity. Convex Sets, Quasi-convex, Unconstrained and Constrained Optimization, Lagrange Theorem, Envelope theorem.	12
	3.	Differential Equations: First-Order differential equations with constant term and constant coefficient definition and solution	11
	4.	Introduction to Linear programming: Assumptions, Requirement for LPP, Mathematical formulation & Solutions by graphical method.	10
	5.	Application of Calculus in Economics: Application to consumer & producer Surplus, Problems relating to Investment & Capital Formation, Derivation of Simple growth process, Application to elasticity of demand and Supply, Derivation of Marginal functions. Interrelationship among total marginal and average function. Tax yield in competitive market. Simple market model and National Income model. Production function and Euler's Theorem	16
		Total Hours	60
TEXT BOOK	1. K. Sydsaeter and P. Hammond, Mathematics for Economic Analysis, Pearson Educational Asia, Delhi.		

REFERENCE BOOK/ SUGGESTED READING	<ol style="list-style-type: none">1. Mathematics for Economists-Simon & Blume2. Fundamental Method of Mathematical Economics-Alpha Chiang3. Sydsæter, K., Hammond, P., Seierstad, A. and Strom, A., Further mathematics for economic analysis. Pearson education.4. Sydsæter, K. and Hammond, P., Essential Mathematics for Economic Analysis, Pearson Education.
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Course: Environmental Studies			Semester: III
Course Code: BAE 205	L T P	4 0 0	Credits: 4

OBJECTIVE	The main objective of teaching environmental studies paper to undergraduate students is to create awareness about environmental issues in the country and their role as well as responsibilities in resolution and mitigation of key environmental issues.		
LEARNING OUTCOME	<ol style="list-style-type: none"> 1. Gain in-depth knowledge on natural processes that sustain life and govern the economy. 2. Develop critical thinking for shaping strategies for environmental protection, conservation of biodiversity, social equity, and sustainable development. 3. To educate students regarding the latest environmental issues. 4. Impacts of climate change on nature and ourselves 5. To make the younger generation aware about sustainable development. 6. To inform them about various initiatives and actions taken by the government for the conservation of nature as well as natural resources. 		
COURSE DETAILS	Module No.	Topic	Hours
	1.	Basics of environmental studies: Multidisciplinary nature of environmental studies; components of environment– atmosphere, hydrosphere, lithosphere and biosphere. •Scope and importance; Concept of sustainability and sustainable development. What is an ecosystem? Structure and function of ecosystem; Energy flow in an ecosystem: food chain, food web and ecological succession. Case studies of the following ecosystems: a) Forest ecosystem b) Grassland ecosystem c) Desert ecosystem d) Aquatic ecosystems (ponds, streams, lakes, rivers, oceans, estuaries)	10
	2.	Natural Resources: Renewable and Non-renewable Resources: Land Resources and land use change; Land degradation, soil erosion and desertification. •Deforestation: Causes and impacts due to mining, dam building on environment, forests, biodiversity and tribal populations. •Water: Use and over-exploitation of surface and ground water, floods, droughts, conflicts over water (international & inter-state). •Energy resources: Renewable and non-renewable energy sources, use of alternate energy sources, growing energy needs, case studies of India, Green Industry/Green Development	12

	3.	Biodiversity and Conservation: Levels of biological diversity: genetic, species and ecosystem diversity; Biogeography zones of India; Biodiversity patterns and global biodiversity hot spots •India as a mega-biodiversity nation; Endangered and endemic species of India •Threats to biodiversity: habitat loss, poaching of wildlife, man-wildlife conflicts, biological invasions; Conservation of biodiversity: In-situ and Ex-situ conservation of biodiversity. Ecosystem and biodiversity services	10
	4.	Environmental Pollution: Environmental pollution: types, causes, effects and controls; Air, water, soil and noise pollution •Solid waste management: Control measures of urban and industrial waste. •Pollution case studies. Climate change, global warming, ozone layer depletion, acid rain and impacts on human communities and agriculture. Environment Protection Act; Air (Prevention & Control of Pollution) Act; Water (Prevention and control of Pollution) Act, Role of Individual in combating environmental issues	12
	5.	Human Communities and the Environment: Human population and growth: Impacts on environment, human health and welfares. •Carbon footprint. •Resettlement and rehabilitation of project affected persons, case studies. •Disaster management: floods, earthquakes, cyclones, and landslides (Uttarakhand Case Studies). •Environmental movements: Chipko, Silent valley, Bishnois of Rajasthan (Environmentalists of Uttarakhand). •Environmental ethics: Role of Indian and other religions and cultures in environmental conservation. •Environmental communication and public awareness, case studies (e.g., CNG vehicles in Delhi.). Field work: Visit to an area to document environmental assets; river/forest/flora/fauna, etc. •Visit to a local polluted site– Urban/Rural/Industrial/Agricultural. •Study of common plants, insects, birds and basic principles of identification. • Study of simple ecosystems-pond, river, Delhi Ridge, etc.	16
		Total Hours	60
TEXT BOOK	1. Bharucha, E., Textbook for Environmental Studies, UGC and BVIEER.		

REFERENCE BOOK/ SUGGESTED READING	<ol style="list-style-type: none"> 1. Bharucha, E., Textbook for Environmental Studies, UGC and BVIEER. Available on www.ugc.ac.in. 2. De Anil, K., <i>Environmental chemistry</i>. New Age International. 3. Sharma, P. D., & Sharma, P. D., Ecology and Environment, Rastogi Publications. 4. Singh, J. S., Singh, S. P., & Gupta, S. R., Ecology, Environmental Science & Conservation., S. Chand Publishing. 5. Kaushik, A., & Kaushik, C. P., Perspectives in environmental studies. New Age International. 6. Singh, S., Environmental Geography: Prayag Pustak Bhawan. Allahabad. 7. Odum, E. P., & Barrett, G. W., Fundamentals of ecology, Philadelphia: Saunders. 8. Butlin, J., Our common future. By World commission on environment and development (London, Oxford University Press. 9. Rao, C. S., Environmental pollution control engineering. New Age International. 10. Carson, R., Silent Spring. Houghton Mifflin Harcourt. 11. Sengupta, R., Ecology and economics: An approach to sustainable development. OUP. 12. Trivedi, R. K. Handbook of Environmental Laws, Rules, Guidelines, Compliances and Standards. Vol. I and II, Enviro Media.
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Course: POLITICAL ECONOMY			Semester: III
Course Code: BAE 206	LTP	4 0 0	Credits: 4

OBJECTIVE	This course explores the systemic structures and institutions of capitalist economies and their evolution in a political economic framework. Students will be exposed to alternative schools of thought and are expected to read some classic texts and commentaries as well as more contemporary essays on the subject.		
LEARNING OUTCOME	On completion of this course, the students will be able to: <ol style="list-style-type: none"> 1. Demonstrate an ability to explain and compare different political and economic systems. 2. Recognize the mutual interdependence of the State and the economy. 3. Use critical thinking in understanding issues and problems of international political economy. 4. Develop critical perspectives on the various facts of capitalism. 		
COURSE DETAILS	Module No.	Topic	Hours
	1.	Analysing Change in Historical Perspective: The method of Historical Materialism, Dialectical Method, Transition from Feudalism to Capitalism; Modernity and its various facets	15
	2.	Changing Dynamics of Capitalist Production: Fordist and Post-Fordist Production, Golden Age of Capitalism; Accumulation and the Crisis; Monopoly Capitalism; Changing Role of Finance and Finance Capitalism	15
	3.	State in the Era of Globalisation: State Capitalism; Imperialism; Deregulation; Neo liberalization; Erosion of State Autonomy; Concept of Welfare State	15
	4.	The Social Dimension: Capitalism and uneven Development; Modernization Theory; Core-Periphery Theory; Exclusion and Marginalization; Gender in 21st Century Economy; Ecological Crisis and Sustainable Development – a critical overview	15
		Total Hours	60
TEXT BOOK	<ol style="list-style-type: none"> 1. Beaud, M., <i>A history of capitalism, 1500-2000</i>. Aakar Books. 2. Lange, O., <i>Political Economy</i>. 		

REFERENCE BOOK/ SUGGESTED READING	<ol style="list-style-type: none"> 1. Habib, I., Capitalism in history. <i>Social Scientist</i>. 2. Harvey, D., <i>A brief history of neoliberalism</i>. Oxford University Press, USA. 3. Baran, P., The political economy of growth., Pelican. 4. Gurley, J., The materialist conception of history. In R. Edwards, M. Reich, T. Weisskopf: The capitalist system, Prentice-Hall.
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Course: Data Analysis			Semester: III
Course Code: BAE 207 P	L T P	2 0 2	Credits: 3

OBJECTIVE	This is a skill enhancement course for data analysis. The students will be given hands on training on using statistical and computing software to better visualize and understand data concepts. The course is to be delivered through 2 classroom lectures and 4 computer lab classes per week.		
LEARNING OUTCOME	The course will use data simulations and publicly available data sources to help students learn about data types, their organization and visual representation. They will learn how to compute summary statistics and do some basic statistical inference.		
COURSE DETAILS	Module No.	Topic	Hours
	1.	Introduction to the course: How can the representation and analysis of data help us study real-world problems. Publicly available data sets. Using Data: Available statistical software, steps in data storage, organization and cleaning	12
	2.	Visualization and Representation: Alternative forms of presenting summarizing and presenting data	10
	3.	Simple estimation techniques and tests for statistical inference	12
	4.	Frequency Distribution and Cross-tabulation; Statistics associated with frequency distribution: Measures of location, Variability and shape	11
		Total Hours	45
TEXT BOOK	1. Levine, D., Stephan, D., Szabat, K., Statistics for managers using Microsoft Excel, Pearson.		
REFERENCE BOOK/ SUGGESTED READING	2. Tattar, P., Ramaiah, S., Manjunath, B., A course in statistics with R. Wiley		

Course: RESEARCH METHODOLOGY			Semester: III
Course Code: BAE 208	L T P	4 0 0	Credits: 4

OBJECTIVE	The course provides basic understanding of research methods. Primary objective of this course is to orient and develop research acumen among students and also to acquaint them with fundamentals of research. It also aims to equip the students with analytical skills to enhance business decision making in real life situations.		
LEARNING OUTCOME	Upon completion of the course, students should be able to: <ol style="list-style-type: none"> 1. Understand the purpose of research, identify a business problem/ need, translate it into a research question, and design an appropriate way to answer it. 2. Identify the main qualitative and quantitative methods of business research, their merits and demerits and appropriate application areas. 3. Develop skills in choosing suitable sampling techniques, measurement scales, questionnaire design, conducting interviews, surveys and leading focus groups. 4. Formulate testable hypotheses and choose the most appropriate tools for testing them, develop skills of quantitative data analysis and interpretation of its results. 5. Communicate research findings and their implications in a clear and well-organized way, both orally and in writing." 		
COURSE DETAILS	Module No.	Topic	Hours
	1.	Introduction to Research Methods: Introduction to Research, Approaches of Research – Induction and Deduction. Nature and Scope of Business Research – Role of Business Research in Decision Making. Definition and Objectives of Research, Various Steps in Scientific Research.	10
	2.	Research Design: Meaning, need, and features of research design, important concepts relating to research design -types of research design (Exploratory and Conclusive Research Design) - Basic principles of experimental designs.	10
	3.	Data Collection and Sampling Design: Primary and Secondary Sources of Data. Measurement and Scaling Techniques, Primary Scales of Measurement. Preparation of Questionnaire. Sample Size decisions, Probability and Non-Probability Sampling, Sampling Vs. Census, Sampling and Non-Sampling Errors.	15
	4.	Statistical Hypothesis Testing: Hypothesis Testing Procedure, Type I and Type II Errors. Test of Significance: Small Sample: t-test, F-test, Large sample: Z-test, Chi-Square test, One-Way-ANOVA.	15

	5.	Research Report: Components of Research Report, Types of Reports, Layout of Research Report, Mechanism of Writing a Research Report – documentation and bibliography. Ethics in Research.	10
		Total Hours	60
TEXT BOOK	<ol style="list-style-type: none"> Cooper, D. and Schindler, P.; <i>Business Research Methods</i>; McGraw Hill Zikmund, W.G., Babin, B .J., Can, J., Adhikari, Atanu and Guffer, Mitch; <i>Business Research Methods: A South Asian Perspective</i>; Cengage Learning. 		
REFERENCE BOOK/ SUGGESTED READING	<ol style="list-style-type: none"> Turabian, Kate; <i>A Manual for Writers of Research Papers, Thesis, and Dissertations</i>; University of Chicago Press Malhotra, Naresh K. and Dash, Satyabhushan; <i>Marketing Research: An applied orientation</i>; Pearson Education Saunders, M.N.K.; <i>Research Methods for Business</i>; Pearson Education Sekhara, U. and Bougie, Roger; <i>Research Methods for Business: A skill building approach</i>; Wiley. 		

Course: Personality Development and Soft Skills – II			Semester: II
Course Code: BAE 209 P	LTP	002	Credits: 1

OBJECTIVE	Soft skills provide students with a strong conceptual and practical framework to build, develop and manage teams.		
LEARNING OUTCOME	On successful completion of this course, the students shall be able to: <ol style="list-style-type: none"> To demonstrate interpersonal skills. To build and improve students' team building, leadership and interpersonal skills. To learn the art of prioritization and managing time. To develop student's overall personality. 		
COURSE DETAILS	Module No.	Topic	Hours
	1.	Introduction to soft skills, it's importance at the workplace, Interpersonal Skills – Negotiations, listening skills, social skills, assertive skills, cross-cultural communications.	04
	2.	Team building and leadership, evolution of groups into teams, group dynamics, emergence of leadership, intra-group dynamics, inter-group dynamics, conflict management, inter-dependency, assessment of team-based projects.	04
	3.	De-clutter, prioritization, goal setting, R-A-C Method for effective time management	04
	4.	Leadership skills, concepts of leadership, leadership styles, insights from great leaders	03
		Total Hours	15
TEXT BOOK	1. Nitin Bhatnagar; <i>Effective Communication and Soft Skills</i> ; Pearson Education India		
REFERENCE BOOK/ SUGGESTED READING	1. Butterfield Jeff; <i>Soft Skills for Everyone</i> ; Cengage Learning.		

SEMESTER IV

Course: BASIC ECONOMETRICS			Semester: IV
Course Code: BAE 210	L T P	4 0 0	Credits: 4

OBJECTIVE	This course provides a comprehensive introduction to basic econometric concepts and techniques. It covers estimation and diagnostic testing of simple and multiple regression models.		
LEARNING OUTCOME	Upon completion of the course students should be able to: <ol style="list-style-type: none"> 1. Estimate the parameters of the model in a correct way by using economic data and econometric software. 2. Test the underlying assumptions. 3. Interpret the data from the computer. 4. Identify the violations of assumptions. 		
COURSE DETAILS	Module No.	Topic	Hours
	1.	Introduction: Nature, Meaning and Scope of Econometrics, Distinction between Economics and Econometrics, Statistics and Econometrics, Mathematics and Econometrics, Stages of Econometric Research	11
	2.	Classical Linear Regression Model: Two variable cases: Concepts and assumptions, Two variable linear regression model: estimation through OLS, Properties of Least Square Estimation	12
	3.	Multiple Linear Regression Model: Concepts and assumptions, Multiple variable regression-Matrix Approach, Functional forms of regression models, concept of dummy variables, non-linear regression models	11
	4.	Violations of Classical Assumptions and Remedies: Problems of heteroscedasticity, autocorrelation, and multicollinearity: Nature, test, consequences and remedial measures.	10
	5.	Specification Analysis: Types of specification errors, consequences of model specification errors, tests and errors of measurement, incorrect specification of the stochastic error term, Model selection criteria	16
		Total Hours	60

TEXT BOOK	1. Johnston, J., Econometric Methods, McGraw Hill, London.
REFERENCE BOOK/ SUGGESTED READING	1. Koutsoyiannis, A. Theory of Econometrics, The Macmillan Press Ltd., London. 2. Pindyek, R.S. and D.L. Rubinfeld, Econometric Models and Economic Forecasts; McGraw 3. Wooldridge J. Introductory Econometrics: A Modern Approach, Cengage.

Course: INDIAN ECONOMY -I			Semester: IV
Course Code: BAE 211	L T P	4 0 0	Credits: 4

OBJECTIVE	To familiarize the students with main features of the Indian Economy and how it is influencing the Business Environment.		
LEARNING OUTCOME	Upon completion of the course students should be able to: <ol style="list-style-type: none"> 1. Develop an understanding of Indian economy. 2. Develop an understanding of industrial policies and reforms. 3. Develop an understanding of NITI Aayog and its role. 4. Understand overall current economic position in the world. 		
COURSE DETAILS	Module No.	Topic	Hours
	1.	Structure of Indian Economy: Features of an Under-Developed Economy, Concepts of Economic Growth and Development, Basic characteristics of Indian Economy, Changes in structure of Indian Economy (Primary, Secondary and Tertiary sector). Economic development since independence	15
	2.	Human Capital: Demography, health and education	13
	3.	Growth and Distribution: Poverty, inequality, unemployment and policy interventions, international comparisons.	13
	4.	Planning in India: Objectives of Economic Planning in India, Twelfth Five Year Plan, NITI Aayog, And Economic Problems: Poverty, Inequality, Unemployment, Unbalanced Regional Development, Low Capital Formation, and Industrial Sickness.	11
	5.	Indian Economy: Emerging Issues: WTO and Indian Economy (Emerging Areas), GATT, TRIMS, TRIPS, and Foreign Direct Investment, Foreign Portfolio Investment, Foreign Institutional Investment.	8
		Total Hours	60
TEXT BOOK	1. Datt, Gaurav, and Mahajan, Ashwini; <i>Indian Economy</i> ; S. Chand & Co.		

REFERENCE BOOK/ SUGGESTED READING	<ol style="list-style-type: none"> 1. Puri, V.K. and Mishra, S.K.; <i>Indian Economy</i>; Himalaya Publishing House 2. Bhagwati, J. and Desai, P; <i>India: Planning for Industrialization</i>; Oxford University Press 3. Jhingan, M. L.; <i>Indian Development and Planning</i>; Vikas Publishing House 4. Todaro, M.P. and Stephen, C.S.; <i>Economic Development</i>; Pearson Education 5. Dhingra, I. C.; <i>The Indian Economy; Environment and Policy</i>; Sultan Chand
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Course: PUBLIC ECONOMICS			Semester: IV
Course Code: BAE 212	L T P	4 0 0	Credits: 4

OBJECTIVE	Public economics is the study of government policy from the points of view of economic efficiency and equity. The paper deals with the nature of government intervention and its implications for allocation, distribution, and stabilization. Inherently, this study involves a formal analysis of government taxation and expenditures. The subject encompasses a host of topics including public goods, market failures and externalities. The paper is divided into two sections, one dealing with the theory of public economics and the other with the Indian public finances.		
LEARNING OUTCOME	<p>The module aims to introduce students to the main theoretical and empirical concepts in public economics, equip students with a thorough analytical grasp of implications of government intervention for allocation, distribution, and stabilization, and familiarize students with the main issues in government revenues and expenditure.</p> <p>At the end of the module the students should be able to demonstrate their understanding of public economics. In some models, the student will be required to deal with simple algebra problems that will help them to better understand these concepts, use diagrammatic analysis to demonstrate and compare the economic welfare effects of various environmental policy options, demonstrate their understanding of the usefulness and problems related to taxation and government expenditure, and demonstrate their critical understanding of public policies</p>		
COURSE DETAILS	Module No.	Topic	Hours
	1.	Nature and Scope of Public Finance: Nature, Definition, Scope of Public Finance a) Role of Public Finance in Economic Development b) Principles of Maximum Social Advantage	12
	2.	Public Revenue: a) Main Sources of Public Revenue b) Classification and Importance of Taxes – Significance, merits and demerits of direct and indirect taxes c) Impact, shifting, incidence and effects of taxation d) Significance of income tax and corporation tax	12
	3.	Public Expenditure: a) Classification and Cannons of Public Expenditure b) Effects of Public expenditure on – Production, Distribution and Economic Growth	12
	4.	Public Economic Theory: Fiscal functions: an overview; Public Goods: definition, models of efficient allocation, pure and impure public	12

		goods, free riding;	
	5	Externalities: The problem and its solutions, taxes versus regulation, property rights, the Coase theorem; and Taxation: its economic effects; dead weight loss and distortion, efficiency and equity considerations, tax incidence, optimal taxation	12
		Total Hours	60
TEXT BOOK	1. Myles, G. D., <i>Public economics</i> . Cambridge University Press. 2. Jha, R., <i>Modern public economics</i> . Routledge.		
REFERENCE BOOK/ SUGGESTED READING	1. Auerbach, A. J., Chetty, R., Feldstein, M., & Saez, E., <i>Handbook of Public Economics</i> . Newnes. 2. Laffont, J. J., <i>Fundamentals of public economics</i> . MIT Press Books, 1. 3. Feldstein, M., & Auerbach, A. J., <i>Handbook of public economics</i> . Elsevier. 4. Kaplow, L., <i>The theory of taxation and public economics</i> . Princeton University Press. 5. Myles, G. D., <i>Public economics</i> . Cambridge University Press.		

Course: INTERNATIONAL ECONOMICS			Semester IV
Course Code: BAE 213	LTP	3 0 0	Credits: 3

OBJECTIVE	To facilitate students: <ol style="list-style-type: none"> 1. The composition, direction, and consequences of international trade, and the determinants and effects of trade policy. 2. The models of open economy macroeconomics national policies as well as international monetary systems. 3. An analytical account of the causes and consequences of the rapid expansion of international financial flows in recent years. 4. On abstract theoretical models, students will also be exposed to real-world examples and case studies. 		
LEARNING OUTCOME	Students will be able to: <ol style="list-style-type: none"> 1. Understand the fundamentals of international economics. 2. Define the Ricardian and Heckscher-Ohlin models. 3. Understand various instruments of trade policy and its controversies. 4. Recognize Terms of trade and Gains from Trade 5. Understand international monetary system and types of flexible exchange system. 		
COURSE DETAILS	Module No.	Topic	Hours
	1	Introduction: What is International Economics about? Inter-regional trade vs international trade, some analytical Tools-Production Possibility Curve, Indifference Curve, Offer Curve, Trade Difference Curve.	09
	2	Theories of International Trade: Theory of Absolute Advantage, Comparative advantage theory, Hecksher Ohlin theory of Factor Endowment, Factor price equalization by Samuelson. Factor Intensity Theorems-Stopler-Samuelson and Rybczynski.	16
	3	Trade Policy: Instruments of trade policy; Political Economy of Trade Policy; Terms of Trade, Gains from Trade, Controversies in Trade Policy.	10
	4	International Macroeconomic Policy: Fixed versus flexible Exchange Rates; International Monetary Systems- history, structure and working of IMF, WB, GATT, WTO.	10
		Total Hours	45

TEXT BOOK	1. Krugman P.R., Obstfeld M. and Melitz M., <i>International Economics</i> , Pearson Education Asia.
REFERENCE BOOK/ SUGGESTED READING	1. Salvatore, D., <i>International Economics: Trade and Finance</i> , John Wiley International Student Edition.

Course: THEORY OF INCOME AND EMPLOYMENT-II			Semester: IV
Course Code: BAE 214	L T P	4 0 0	Credits: 4

OBJECTIVE	This course will illustrate how economic concepts can be applied to analyse real-life situations. In this course, the students are introduced to money and interest, theories of inflation, rate of interest, trade cycles and macroeconomic policies.		
LEARNING OUTCOME	On the completion of this course, the student will be able to: <ol style="list-style-type: none"> 1. Know the basic concepts of macroeconomics. 2. Understand the various economic problems of society in totality. 3. Analyse various issues in macroeconomics framework. 4. Formulate the macroeconomic models. 		
COURSE DETAILS	Module No.	Topic	Hours
	1.	General Equilibrium: General equilibrium; Equilibrium in the product and money markets in closed economy: IS and LM model; Elasticity of IS schedule and shifts in IS curve, Elasticity of LM schedule and shifts in LM curve, Changes in general equilibrium	12
	2.	Inflation: Meaning and types of inflation; Theories of inflation: Demand-pull inflation, Cost-push inflation; Inflationary-gap and deflationary gap; Effects of inflation; Philips curve, Short-run and long-run Phillips curve; Measures to control inflation.	12
	3.	Trade Cycles: Trade cycles: Meaning, types and phases; Theories of trade cycles: Monetary theory, Overinvestment theory, Samuelson theory, Hicks theory; Keynes vs. trade cycle; Control of business cycle; Economic growth: Meaning and measurement.	12
	4.	Classical And Keynesian Economics: Classical theory of income, employment, wage rate, interest and price level, Classical dichotomy, Say's Law, Causes of unemployment – Evaluation of classical model. Keynesian critique of classical model; Keynesian Theory of income, employment, consumption, interest and multiplier	12
	5.	New Classical Approach: The new classical critique of micro foundations, the new classical approach; Policy implications of new classical approach – empirical evidence	12
		Total Hours	60

TEXT BOOK	<ol style="list-style-type: none"> 1. Shapiro, E, Principles of Macroeconomics, Oxford University Press. 2. Pindyck, Robert, S, Microeconomics, Pearson Education, New Delhi. 3. Mankiw N. Gregory, Macroeconomics, Worth Publishers
REFERENCE BOOK/ SUGGESTED READING	<ol style="list-style-type: none"> 1. Ackley, G, Macroeconomics: Theory and Policy, Macmillan, New York 2. Andrew B. Abel and Ben S. Besanke, Macroeconomics, Pearson Education, Inc 3. Chauhan, S.P.S, Microeconomics, Advanced treatise, PHI 4. Keynes, J.M. The General Theory of Employment, Interest and Money, Macmillan, London. 5. Stiglitz J. E. and Carl, Macroeconomic Analysis, Galgotia Publication, New Delhi.

Course: ETHICAL PRINCIPLES & PRACTICES			Semester: IV
Course Code: BAE 215	LTP	4 0 0	Credits: 4

OBJECTIVE	The objective of this course is to enlighten the students regarding the importance of Ethics in Business and Practices of good Corporate Governance. It also talks about the Corporate Social Responsibility.		
LEARNING OUTCOME	Upon completion of the course students should be able to: <ol style="list-style-type: none"> 1. develop an understanding of the concept of ethics & its relevance in organization. 2. Comprehend and understand about Indian scriptures of Indian ethics. 3. Understand about Ethical issues in capitalism & market systems, marketing, human resource management, and intellectual property rights. 4. Learn emerging trends in Corporate Social Responsibility in the global and Indian context and its impact on stakeholders. 5. Explain the framework of corporate governance and its role in corporate social responsibility. 		
COURSE DETAILS	Module No	Topic	Hours
	1.	Introduction to Business Ethics: Business Ethics: Meaning of Ethics, Why Ethical Problems occur in Business. Ethical Principles in Business: Utilitarianism: Weighing Social Cost and Benefits, Rights and Duties, Justice and Fairness, Ethics of Care, Integrating Utility, Rights, Justice and Caring, An Alternative to Moral Principles: Virtue Ethics, Moral Issues in Business: Worker's and Employee's Rights and Responsibilities, Profit Maximization vs. Social Responsibility.	12
	2.	Indian Ethos: Components of Indian Ethos, Principles of Indian Ethos, Application of Indian Ethos to Management, Quality of Work Life and Indian Ethos	12
	3.	Impact of Ethics on Business: Ethics impact in business, Ethical issues in capitalism and market systems, Ethics and social responsibility, Ethics and marketing, Ethics in finance, Ethics in human resource, Ethics in information technology, Intellectual property rights, Designs, Patents, Trademarks, Copy rights.	12
	4.	Corporate Social Responsibility: Concept, Rationale of CSR, Social responsibility theories, Pyramid of Corporate social responsibility Contemporary CSR concepts: corporate sustainability, Reputation management and social impact management, Triple Bottom Line. CSR and business ethics	12

	5.	CSR & Corporate Governance: CSR and corporate governance, Environmental aspect of CSR, CSR models, Drivers of CSR, Cases on Corporate social responsibility, Contemporary Issues in CSR. Field work: Visit to a nearby village for community service and interaction with villagers to understand the challenge faced by them.	12
		Total Hours	60
TEXT BOOK	1. Manuel G Velasquez; <i>Business ethics- concepts and cases</i> ; Pearson		
REFERENCE BOOK/ SUGGESTED READING	1. Luthans, Hodgetts and Thompson; <i>Social issues in business</i> ; Macmillan USA 2. A.C. Fernando; <i>Business Ethics</i> ; Pearson Education 3. Marianne M Jennings; <i>Cases in Business Ethics</i> ; Cengage Learning 4. Kevin Gibson; <i>Ethics and Business- An Introduction Cambridge Applied Ethics</i> ; Cambridge University Press 5. Hartman, L.P. and Chatterjee, A.; <i>Business Ethics</i> ; McGraw Hill		

Course: BANKING FUNCTIONS AND POLICIES			Semester: IV
Course Code: BAE 216	LTP	3 0 0	Credits: 3

OBJECTIVE	To facilitate students: <ol style="list-style-type: none"> 1. To know the concept and functions of banks 2. To know about the interest rate and its determinants. 3. To know about the Indian banking system and its changing role in the era of globalization. 4. To know how to prepare the balance sheet and manage portfolio. 		
LEARNING OUTCOME	<ol style="list-style-type: none"> 1. Understand all about money and all its functions. 2. Understand working and functions of banking system. 3. Understand interest rates, how to work monetary policy. 		
COURSE DETAILS	Module No	Topic	Hours
	1	Commercial Banking System I: Meaning, functions, assets and liabilities-Balancing liquidity with profitability, Process of credit creation by commercial banks.	10
	2	Financial Institutions, Markets, Instruments and Financial Innovations: Role of financial markets and institutions; problem of asymmetric information – adverse selection and moral hazard; financial crises.	12
	3	Interest Rates: Determination; Sources of Interest Rate differentials; Theories of Term structure of Interest Rates; Interest Rates in India.	10
	4	Indian Banking System: Changing Role and Structure; Banking Sector Reforms. Central Banking and Monetary Policy: Functions, Balance Sheet; Goals, Targets, Indicators, and Instruments of Monetary Control; Current Monetary Policy of India.	13
		Total Hours	45
TEXT BOOK	<ol style="list-style-type: none"> 1. Suraj. B. Gupta., Monetary Planning for India, University Press, New Delhi. 2. Frederic S. Mishkin., The Economics of Money, Banking and Financial Markets, Pearson, Addison, Wesley. Newyork. 3. N. Jadhav, Monetary Policy, Financial Stability and Central Banking in India, Macmillan. 		

REFERENCE BOOK/ SUGGESTED READING	<ol style="list-style-type: none"> 1. Peter Howells and Keith Bain., the Economics of Money and Banking, Pearson, Education Limit. 2. L. M. Bhole and J. Mahukud, Financial Institutions and Markets, McGraw Hill. 3. Government Reports: <ol style="list-style-type: none"> a. R.B.I. Bulletin, Annual Report b. Report on Currency and Finance, RBI (latest).
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Course: ENVIRONMENTAL ECONOMICS AND SUSTAINABLE BUSINESS PRACTICES			Semester: IV
Course Code: BAE 217	L T P	4 0 0	Credits: 4

OBJECTIVE	This introduces students to the key contemporary aspects of environmental economics along with the ways to conduct business activities in an environmentally friendly manner and will enable the students to understand and develop sustainable business strategies. This course will also help students in understanding the relationship between economic activities and environmental degradation.		
LEARNING OUTCOME	The students will be able to: <ol style="list-style-type: none"> 1. Understand the basics of environmental economics and sustainable business practices. 2. Analyse the economy-environment relationship. 3. Learn through hands-on experience from field trip. 4. Identify the ways through which sustainable business practices can be implemented. 5. Create analytical skills in developing sustainable business strategies and providing policy recommendations for solving environmental issues. 		
COURSE DETAILS	Module No.	Topic	Hours
	1.	Introduction: Meaning, nature and scope of environmental economics; Environment-economy relationship; Environmental valuation; Natural and man-made factors affecting environmental quality; Natural resources: Meaning and classification; Environmental performance index (EPI).	12
	2.	Overview of Climate Change: Climate change: Meaning, causes and solutions; Sources of greenhouse gas emissions; Carbon footprints: Meaning, causes and examples; Extreme weather events; Adaptation and mitigation measures for climate change; Cost of climate change; Politics of climate change.	12
	3.	Green Marketing and Emission Trading Green Marketing: Meaning, objectives, types and importance; Green marketing and green technologies; Green Innovation, Green Investment, Benefits of Green Business; Eco-labeling. Emission Trading: Meaning and working; Carbon markets: Meaning, types and benefits; Impact of emission trading on economic growth	12

	4.	Environmental Concerns and Solutions: Global environmental issues; Corporate social responsibility (CSR): Meaning, types and importance; Environmental, social and governance (ESG) investing: Objectives, pillars and working;	12
	5.	Blue Economy: Sustainable blue economy: Meaning, objectives, importance and challenges, Environmental management system (EMS): Components, structure and significance; Economics of recycling and waste management; Porter's hypothesis.	12
		Total Hours	60
TEXT BOOK	<ol style="list-style-type: none"> 1. Baumol William J. and Oats Wallace E. <i>The Theory of Environmental Policy</i>, Second Edition, Cambridge University Press. 2. Hanley, N, J. F. Shogren and B. White, <i>Environmental Economics in Theory and Practice</i>, MacMillan, New York. 		
REFERENCE BOOK/ SUGGESTED READING	<ol style="list-style-type: none"> 1. Acar. S and Yelden. E., <i>Handbook of Green Economics</i>, Academic Press Inc, Massachusetts. 2. Bhattacharya, R.N., <i>Environmental Economics: An Indian Perspective</i>, Oxford University Press, New Delhi. 3. Bromely, D. W., <i>Handbook of Environmental Economics</i>, Blackwell. 4. Dathe,T.;Dathe, R.;Dathe, I. and Helmold, M., <i>Corporate Social Responsibility (CSR), Sustainability and Environmental Social Governance (ESG)</i>, Springer, Switzerland. 		

Course: LAW AND ECONOMICS			Semester: IV
Course Code: BAE 218	LTP	3 0 0	Credits: 3

OBJECTIVE	<p>Economics provides a scientific theory to predict the effects of legal sanctions on behavior. The objective of this course is to enable students to recognize the economic issues in a legal problem and apply the economic way of thinking to analyze it.</p> <p>The course helps students to understand economics importance of the law associated with intellectual property. The course is designed for developing a research aptitude among the students in the field of Law and Economics.</p>		
LEARNING OUTCOME	<p>After completion of this paper student will be able to:</p> <ol style="list-style-type: none"> 1. Have an insight into the importance of law in economics. 2. Understand the new development in the international laws related to industrial production and pollution. 3. Gain deep knowledge about the role of Intellectual Property Rights in economic growth. 		
COURSE DETAILS	Module No.	Topic	Hours
	1	Introduction to Law and Economics Economic Analysis of Law: An Introduction Why do economists need to be concerned about law? - Relationship between law and economics. Economic Concepts and their relevance to Law. Legal Concepts - The Common Law and the Civil Law Traditions, Introduction to Judicial System in India, Economic Approach to Legal Rules, Methodological Aspects of Legal Rules, Efficiency, Justice and the inherent rationality of Private Law, Development of efficient Rules: Selected Cases.	10
	2	Intellectual Property Rights Meaning, scope, regulations Intellectual Property Rights (IPRs) – Patents, Copyrights, Trademark, Trade secrets, Plant varieties & Farmers' Rights – Relevance, relationship between technological development, technology diffusion, and economic growth.	12
	3	Economic Analysis of Property Law Introduction, An Economic Theory of Property, Economics of Property Law - Market strategies, Non- market strategies, Allocation of Property Rights - First come first served, Good faith purchase, Title to Land, Establishment of entitlements - Property Rule, Liability Rule, Inalienability Rule.	10
	4	Economic Analysis of Competition Law Introduction, Economic Theory of Competition Law - Workable Competition: Structure- Conduct- Performance, Competition	13

		as Dynamic Process, Reappraisal of Price Theory - Vertical Restraints: Vertical Price Fixing, Predatory Pricing: Lowering Prices, Control of Concentration: Collusion, Transaction Cost Approach, Theory of Contestable Markets.	
		Total Hours	45
TEXT BOOK	1. Posner Richard A – Economic Analysis of Law. 2. Cooter Robert & Ulen Thomas- Law and Economics.		
REFERENCE BOOK/ SUGGESTED READING	1. Shavel Steven – Foundation of Economic Analysis of Law. 2. Harison Jeffrey L. & Theeuwes Jules - Law and Economics. 3. Polinsky Mitchell A.- An Introduction to Law and Economics. 4. Micali Thomas J.- The Economic Approach to Law. 5. Mercuro Nicholas, Medema Steven G. – Economics & the Law- Second Edition.		

SEMESTER - V

Course: ECONOMICS OF GROWTH			Semester: V
Course Code: BAE 301	LTP	4 0 0	Credits: 4

OBJECTIVE	To facilitate students to: <ol style="list-style-type: none"> 1. Understand discussion of alternative conceptions of economic growth and their justification. 2. Understand aggregate models of growth and development to know cross-national growth experience. 3. Learn about different measures of demographic indicators and its relationship with development. 		
LEARNING OUTCOME	Students will be able to: <ol style="list-style-type: none"> 1. Enable the basics of economic growth and development, with in-depth discussions of the concepts of development, and growth. 2. Understand the different growth and development models and read out the history of development of nations and societies. 3. Understand the transition in demography and impact on development on it. 4. Course Outline (Syllabus) & Implementation (Pedagogy) 		
COURSE DETAILS	Module No.	Topic	Hours
	1	Growth Models and Empirics: meaning of Economic growth. Meaning of economic development-- Traditional view. The concept of economic development. Modern view. Sen's capabilities approach to development. Meaning of Development, Freedom and capabilities, Prof. Amarta Sen on growth, poverty and sitrbition in India, three core values of development	10
	2	Economic growth: Measurement, factors affecting economic growth, facts of economic growth, The Harrod-Domar model, the Solow model and its variants, endogenous growth models, and evidence on the determinants of growth.	11
	3	Development Models: Rostow stages of Economic Growth, Big push model, Critical minimum effort thesis, lewis low level equilibrium trap.	11
	4	Economic growth and welfare: Economic growth and welfare: Concept of optimal growth, golden rule of accumulation; Convergence: Absolute and conditional convergence; Quah's model twin peaks.	13

	5	Capital Controversy and Endogenous Growth Models: Capital controversy; Neo-Keynesian model of growth: N. Kaldor, L. Pasinetti and Ms. Joan Robinson; Two-sector model of growth; Models of endogenous growth- The AK Model, Romer's Model, learning by doing.	15
		Total Hours	60
TEXT BOOK	<ol style="list-style-type: none"> 1. Dasgupta, P., <i>Economics: A very short introduction</i>. Oxford University Press. 2. Hirschman, A., <i>Rival views of market society and other essays. "Linkages in Economic Development"</i>. Harvard University Press 3. Sen, A., <i>Development as freedom</i>. Oxford University Press. 4. Todaro, M., Smith, S., <i>Economic Development</i>. Pearson. 		
REFERENCE BOOK/ SUGGESTED READING	<ol style="list-style-type: none"> 1. HL AHUJA- Adelman, I- Theories of Economic growth and development, Stanford University 2. Basu, K., <i>The Oxford companion to economics in India</i>. Oxford University Press. 3. Ostrom, E., <i>Governing the commons: The evolution of institutions for collective action</i>. Cambridge University Press. 4. Rodrik, D., <i>One economics, many recipes: Globalization, institutions, and economic growth. Ch. 1: "Fifty Years of Growth (and lack thereof): An Interpretation"</i>. Princeton University Press. 		

Course: INDIAN ECONOMY -II			Semester: V
Course Code: BAE 302	L T P	4 0 0	Credits: 4

OBJECTIVE	To familiarize the students with main features of the Indian Economy and how it is influencing the Business Environment.		
LEARNING OUTCOME	Upon completion of the course students should be able to: <ol style="list-style-type: none"> 1. Develop an understanding of Indian economy. 2. Develop an understanding of industrial policies and reforms. 3. Develop an understanding of NITI Aayog and its role. 4. Understand overall current economic position in the world. 		
COURSE DETAILS	Module No.	Topic	Hours
	1.	Macroeconomic policies and their impact	15
	2.	Macroeconomic policies- Trade policies in India, foreign policies	13
	3.	Policies and performance in agriculture	13
	4.	Policies and performance in industry	11
	5.	Policies and performance in services	08
	Total Hours		60
TEXT BOOK	1. Datt, Gaurav, and Mahajan, Ashwini; <i>Indian Economy</i> ; S. Chand & Co.		
REFERENCE BOOK/ SUGGESTED READING	<ol style="list-style-type: none"> 1. Puri, V.K. and Mishra, S.K.; <i>Indian Economy</i>; Himalaya Publishing House 2. Bhagwati, J. and Desai, P; <i>India: Planning for Industrialization</i>; Oxford University Press 3. Jhingan, M. L.; <i>Indian Development and Planning</i>; Vikas Publishing House 4. Todaro, M.P. and Stephen, C.S.; <i>Economic Development</i>; Pearson Education 5. Dhingra, I. C.; <i>The Indian Economy; Environment and Policy</i>; Sultan Chand 		

Course: Energy Economics			Semester: V
Course Code: BAE 303	L T P	4 0 0	Credits: 4

OBJECTIVE	This course enables the students to understand the basics of energy economics, energy crisis and to solve the problems of energy and environmental issues. It also focuses on the study of energy planning and management and enables them to find alternative approaches and strategies regarding energy conservation		
LEARNING OUTCOME	The students will be able to: <ol style="list-style-type: none"> 1. Know the basic concept of energy and its importance. 2. Understand the role and availability of energy and its scarcity. 3. Apply various strategies to plan, conserve and manage energy through different methods. 4. Create new alternatives to overcome existing crisis and issues of energy. 5. Analyse the existing capacity of energy sources of India. 		
COURSE DETAILS	Module No.	Topic	Hours
	1.	Introduction: Energy economics: Nature and scope; Emergence of energy economics; Energy economics relation with other branches; Natural resources: Classification and importance.	10
	2.	Energy Resources: Energy resources: Types and classification; Properties of energy; Forms of energy; Energy indicators; Energy crisis: Causes, consequences and remedial measures.	12
	3.	Energy Conservation and Management: Energy planning: Meaning and process; Energy conservation: Meaning, objectives, importance and strategies; Energy management: Meaning, objectives and design; Energy accounting: Meaning and methods.	12
	4.	India's Energy Profile: Indian energy sector; Energy supply (Coal, Lignite, Oil, Gas and Powers -. Hydro, Nuclear, Thermal); Energy demand (Agriculture, Industry, Transport, Domestic, etc); Renewable energy sources and technology (Solar, Wind, Biogas, Biomass, Geothermal, OTEC, Tidal, Wave hydrogen, Fuel Cell, Biodiesel).	12
	5.	Economics of Structure of Different Energy Markets, Energy Pricing & Efficiency: Introduction to power market & oil market, role of regulators in the market and their Different Energy pricing strategies, Introduction to the different terminologies in	14

		these sectors, Introduction to economics of energy efficiency, Market barriers to energy efficiency, Energy efficiency and energy conservation, Energy efficiency v/s economic efficiency	
		Total Hours	60
TEXT BOOK	<ol style="list-style-type: none"> 1. Agarwal, S.K, <i>Environment and Natural Resources Economics</i>, Scott Foresman & Co., London. 2. Paul Stevens, <i>The Economics of Energy (Ed)</i>, Vol. I and II Edward Elgar. 		
REFERENCE BOOK/ SUGGESTED READING	<ol style="list-style-type: none"> 1. Common, M., <i>Environmental and Resource Economics</i>, Longman, London. 2. Subhes C. Battacharya, <i>Energy Economics: Concepts, Issues, Markets and Governance</i>, Springer. 3. 4. David Pearct et. Al., <i>Sustainable Development - Economics and Environment in the Third World</i> (Earths Can Publications, London. 4. Munasinghe, M and Meier, P, <i>Energy Policy and Modeling</i>, Cambridge University Press, UK. 5. Sankar U, <i>Public Sector Pricing: Theory and Applications</i>, IEA Trust for Research and Development. 6. World Bank, <i>World Development Report</i>, Oxford University Press, China 		

Course: ECONOMICS OF INFRASTRUCTURE			Semester: V
Course Code: BAE 304	LTP	4 0 0	Credits: 4

OBJECTIVE	The course aims to strengthen students' understanding of how economic theory can be theoretically and empirically applied to policy concerns of the infrastructure sector. This course discusses the characteristics of infrastructure along with the alternative pricing methods. The course also focuses on the elements of transport, communication and energy with special reference to India.		
LEARNING OUTCOME	Students will be able to: <ol style="list-style-type: none"> 1. Understand various concepts of infrastructure and economic development. 2. Understand concepts and principles related to transportation economies. 3. Understand communication aspect in respect of economics. 4. Understand basic concepts of energy economics 		
COURSE DETAILS	Module No.	Topic	Hours
	1	Infrastructure and Economic Development: Infrastructure as a public good; social and physical infrastructure; special characteristics of public utilities. The peak – load, off – load problem, dual principle controversy; economics of scale of joint supply; marginal cost pricing vs. other methods of pricing in public utilities; cross – subsidization – free prices, equity and efficiency.	14
	2	Transportation Economics: The structure of transport costs and location of economic activities. Demand for transport. Models of freight and passenger demand. Model choice; cost functions in the transport sector. Pricing principle. Special problems of individual models of transport.	10
	3	Communication: Rate making in telephone utilities. Principles of decreasing costs in telephone industry. Characteristics of postal services. Criteria for fixation of postal rates. Measurement of standards of service in telephone and postal services.	12
	4	Energy Economics: Primacy of energy in the process of economic development. Factors determining energy demand. Effects of energy shortages. Energy conservation. Renewable and non-conventional sources of energy. Energy modeling. The search for an optimal energy policy in the Indian context.	12
	5	Social Infrastructure: Organization and financing of supply of social services. Private	12

		vs. public sector financing; recent debate about the fixation of pricing of social services. Development of social services in the successive Indian plans.	
		Total Hours	60
TEXT BOOK	<ol style="list-style-type: none"> 1. Jose Luis Gomez-Barroso, Public Economics: A Concise Introduction, Routledge. 2. Joseph E. Stiglitz, Jay K, Economics of the public sector, W. W. Norton & Company 3. Stuart Cole, Applied Transport Economics, London and Sterling VA. 		
REFERENCE BOOK/ SUGGESTED READING	<ol style="list-style-type: none"> 1. Indian Council of Social Sciences Research (ICSSR), Economics of Infrastructure, Vol. VI, New Delhi 2. Aronofsky, J.A. Rao and M. Shakecn (Eds.), Energy Policy, North Holland, Amsterdam. 3. Pachauri, R.K. (Ed.), Energy Policy for India, Macmillan Co. of India, New Delhi. 4. Jetli, K.N and V. Sethi, Infrastructure Development in India: Post Liberalisation Initiatives and Challenges, Century Publications. 		

Course: DEVELOPMENT ECONOMICS			Semester: V
Course Code: BAE 305	LTP	4 0 0	Credits: 4

OBJECTIVE	To facilitate students to:		
	<ol style="list-style-type: none"> 1. Understand discussion of alternative conceptions of development and their justification. 2. Understand aggregate models of growth and cross-national comparisons of the growth experience that can help evaluate these models. 3. Develop measures of inequality and connections between growth and inequality. 4. Link political institutions to growth and inequality by discussing the role of the state in economic development and the informational and incentive problems that affect state governance. 		
LEARNING OUTCOME	Students will be able to:		
	<ol style="list-style-type: none"> 1. Enable the basics of development economics, with in-depth discussions of the concepts of development, and growth. 2. Understand poverty and inequality, as well as the underlying political institutions. 3. Understand some growth models. 4. Understand the role of the state in economic development and the informational and incentive problems of India. 		
COURSE DETAILS	Module No.	Topic	Hours
	1	Conceptions of Development: Alternative measures of development, documenting the international variations in these measures, comparing development trajectories across nations and within them	15
	2	Land Labor and Credit Market: The distribution of land ownership, land reforms, and its effect on productivity, contractual relationship between tenants and landlords, land acquisition. Informational problems and credit contracts, Microfinance.	15
	3	Poverty and Inequality: Definitions, Measures and Mechanisms Inequality axioms; comparison of commonly used inequality measures; connections between inequality and development; poverty measurement; characteristics of the poor; mechanisms that generate poverty traps, and path dependence of growth processes	15
	4	Sustainable Development: Defining sustainability; a brief history of environment change, environment externality, economic activity and climate change.	15
		Total Hours	60

TEXT BOOK	<ol style="list-style-type: none"> 1. Ray, D., <i>Development economics</i>. Princeton University Press 2. Todaro, M., Smith, S., <i>Economic Development</i>. Pearson
REFERENCE BOOK/ SUGGESTED READING	<ol style="list-style-type: none"> 1. Banerjee, A., Benabou, R., Mookerjee, D., <i>Understanding poverty</i>. Oxford University Press. 2. Bardhan, P., <i>Awakening giants, feet of clay: Assessing the economic rise of China and India</i>. Oxford University Press. 3. Basu, K., <i>The Oxford companion to economics in India</i>. Oxford University Press. 4. Dasgupta, P., <i>Economics: A very short introduction</i>. Oxford University Press. 5. Deaton, A., <i>The great escape: Health, wealth, and the origins of inequality</i>. Princeton University Press. 6. Hirschman, A., <i>Rival views of market society and other essays</i>. Ch. 3: "Linkages in Economic Development". Harvard University Press. 7. Ostrom, E., <i>Governing the commons: The evolution of institutions for collective action</i>. Cambridge University Press. 8. Piketty, T., Saez, E., <i>Inequality in the Long Run</i>, Science, 344. 9. Rodrik, D., <i>One economics, many recipes: Globalization, institutions, and economic growth</i>. Ch. 1: "Fifty Years of Growth (and lack thereof): An Interpretation". Princeton University Press. 10. Sen, A., <i>Development as freedom</i>. Oxford University Press.

Course: ENTREPRENEURSHIP & START-UP ECOSYSTEM			Semester: V
Course Code: BAE 306	L T P	4 0 0	Credits: 4

OBJECTIVE	To familiarize the students with Entrepreneurship Development, process of establishing an enterprise and the type of support available from various government and non-government institutions.		
LEARNING OUTCOME	Upon completion of the course students should be able to: <ol style="list-style-type: none"> 1. Understand the nature of entrepreneurship and develop the ability to recognize business opportunity as a career. 2. Demonstrate the ability to do a self-analysis in the context of an entrepreneurial career. 3. Develop the capability to find an attractive market that can be reached economically. 4. Create an appropriate business model. 5. Develop a well-presented business plan that is technically and economically feasible. 		
COURSE DETAILS	Module No.	Topic	Hours
	1.	Foundation of Entrepreneurship: Concept and Need of Entrepreneurship, Characteristics and Types of Entrepreneurships, Process, Entrepreneurship as a career, Entrepreneurship as a Style of Management, changing role of the Entrepreneur, Entrepreneurial Traits, Factors Affecting Entrepreneurship.	12
	2.	Theories of Entrepreneurship: Influences on Entrepreneurship Development, External Influences on Entrepreneurship Development: Socio-Cultural, Political and Economic, Personal Entrepreneurial Success and Failure, Reasons and Remedies, Women Entrepreneurs, Challenges and Achievements of Women Entrepreneurs.	12
	3.	Entrepreneurial Motivation and Competencies: Factors affecting Entrepreneurial Motivation, Meaning of Entrepreneurial Competencies, Major Entrepreneurial Competencies, Developing Entrepreneurial Competencies.	12
	4.	Opportunities Identification and Selection: Need for Opportunities Identification and Selection, Environmental Dynamics and Changes, Business Opportunities in Various Sectors, Identification of Business Opportunities, Opportunity Selection.	12

	5.	Business Planning Process: The business plan as an entrepreneurial tool, Elements of business planning, Objectives, Market analysis, Development of product/idea, Marketing, Finance, Organization and management, Ownership, Critical risk contingencies of the proposal, Scheduling and milestones	12
		Total Hours	60
TEXT BOOK	1. Kuratko, D. F. and Rao, T. V.; <i>Entrepreneurship: A South Asian Perspective</i> ; Cengage Learning		
REFERENCE BOOK/ SUGGESTED READING	1. Hisrich, R. D., Peters. M.P. and Shepherd, D.A.; <i>Entrepreneurship</i> ; McGraw Hill 2. Dollinger, M.J.; <i>Entrepreneurship: New venture creation</i> ; Pearson Education 3. Zimmerer, W.T. and Norman M.S; <i>Essentials of Entrepreneurship and Small Business Management</i> ; Pearson Education 4. Charantimath, Poornima, <i>Entrepreneurship Development & Small Business Enterprises</i> , Pearson Education. 5. Desai Vasant and Kaur, Kulveen; <i>Entrepreneurial Development and Management</i> 6. Khanka, S.S.; <i>Entrepreneurial Development</i> ; S. Chand and Co.		

Course: SUMMER INTERNSHIP REPORT & VIVA-VOCE			Semester: V
Course Code: BAE 307	L T P	0 0 0	Credits: 6

OBJECTIVE	To expose students to industry practices and help them to face the challenges in this rapidly changing world, internship training is crucial. The purpose of the Internship is to provide students with an authentic learning environment for integrated and holistic education. The work carried out by the student in the internship should be relevant to the areas.
LEARNING OUTCOME	<p>Upon completion of the course students should be able to:</p> <ol style="list-style-type: none"> 1. To gain working experience in an actual workplace environment. 2. To integrate theory and practice, and to understand the limitations of their current knowledge. 3. To work in a team and to collaborate with people with diverse backgrounds. <p>To broaden their social and cultural experience, and to develop their social and cultural values and to prepare for their life-long career</p>
COURSE DETAILS	<p style="text-align: center;">Evaluation Pattern</p> <ol style="list-style-type: none"> 1. Each student has to go under Summer Internship for Six to Eight weeks in the month of May & June after Fourth Semester, the viva-voce on summer Internship report will be held along with the Fifth Semester Examination. 2. This study will help the student to have a clear knowledge of what an organization is & the major factors that lead to the structuring of the organization & how good an organization structure will enable in achieving the objectives effectively & efficiently. The study will also reinforce the theoretical knowledge acquired in terms of applications. 3. The faculty mentor will be assigned to each student by the department. 4. The study should cover the following topics: <ol style="list-style-type: none"> a) Profile of the organization. b) Mission, objectives & strategies of the organization. c) Organization design & structure d) Policies & procedures followed. e) Products, competitors. f) Key result areas of the organization. <p>Students should interact with the faculty mentor & report the progress made.</p>

SEMESTER VI

Course: INDUSTRIAL ECONOMICS			Semester: VI
Course Code: BAE 308	L T P	4 0 0	Credits: 4

OBJECTIVE	The objective is to provide a thorough knowledge about the economics of industry in a cogent and analytical manner, particularly in the Indian context.		
LEARNING OUTCOME	Upon completion of the course students should be able to: <ol style="list-style-type: none"> 1. Explain and analyse the main issues and debates in the field of industrial economics. 2. Describe the workings of different market structures. 3. Critically evaluate different policy approaches to industry. 4. Analyse the value and the limitations of existing theory in the area of industry economics. 		
COURSE DETAILS	Module No.	Topic	Hours
	1.	The Scope of Industrial Economics and Its History, Concepts and Measurement, The Organizational Form and Alternative Motives, The Elements of Market Structure Market Conduct. Market structure-conduct-performance paradigm Alternative schools of thought- Market concentration and monopoly power-Causes and measurement-Market concentration and performance-Extent of market concentration in India-Recent trends-Vertical integration, diversification and merger.	11
	2.	Location Analysis: Factors determining location-Approaches to industrial location analysis-Theoretical (geographical and economic theories) and operational approaches Industrial location pattern in India.	12
	3.	Industrial Finance Sources (Internal and External): Financial Statements Analysis of financial ratios and their interrelatedness Standards for comparison of financial ratios-Problems of financial analysis.	11
	4.	Technological Change and Industrial Efficiency: Measurement-Trend and impact of technological change in Indian industries- Problems related to R & D and innovation-Trends in total factor productivity Determinants of productive and economic efficiency Measurement of the efficiency level.	10
	5.	Industrial Development Government Regulation of Industries Pattern of industrialization since independence-Changing structure of industries- Debates on industrial stagnation Issues in industrial development in the context of globalization.	16

		Total Hours	60
TEXT BOOK	1. Barthwal, Industrial economics: An introductory Textbook. New Age International		
REFERENCE BOOK/ SUGGESTED READING	1. Perloff, J., Carlton, D. Modern Industrial Organization, Boston Pearson Education Limited. 2. Pepall, L. Richards, D.J., Norman, G. Industrial organization: theory and practice, Boston Pearson Addison Wesley. 3. Barthwal, R. R., Industrial Economics, Wiley Eastern Ltd., New Delhi.		

Course: AGRICULTURAL ECONOMICS			Semester: VI
Course Code: BAE 309	L T P	4 0 0	Credits: 4

OBJECTIVE	The basic objective of the course content is to demonstrate a basic knowledge of the principles of economics and their application to agricultural problems.		
LEARNING OUTCOME	Upon completion of the course students should be able to: <ol style="list-style-type: none"> 1. Gain a broad understanding of the role of the consumer in the marketplace for agricultural commodities, producers, agencies and the global market structure. 2. Apply introductory economic principles to applied global situations. 3. Employ economic concepts in the application of production level decision making. 4. Employ economic principles to the basic and global agricultural community. 5. Understand relationships that exist between producers and consumers. 		
COURSE DETAILS	Module No.	Topic	Hours
	1.	Economics and Economic Growth: Characteristics of Agriculture, Definition of Agriculture, Agricultural Economics as a Social Science, Structure of Agriculture Sectors, Inputs Used and Products of Agriculture	11
	2.	Principles of Economics: Production Principles, Production Costs, Supply and Revenue, Principles of Profit Maximization and Loss Minimization, Principles of Consumption and Demand, Price Elasticity Concepts, Principles of Market Price Determination, Competitive vs. Non-Competitive Market Models, Global Issues.	12
	3.	Population Growth, World Food Production Trends, Trade in Agricultural Products, The Role of Agriculture in Economic Growth, Marketing Food and Agricultural Products, Functional and Institutional Approaches to Marketing.	11
	4.	Agriculture Market Mechanism: Costs of Marketing Food and Agricultural Products, Operation of the Futures Markets, Agricultural Problems and Policy Analysis, Goals and Policies and Programs, Price and Income, Resource Use (May Include: Natural Resources, Land Economics, Locally Grown Foods, etc.)	10
	5.	Agricultural Sector Based: Measuring the National Economy, The Circular Flow of Income, Measuring Inflation, Unemployment, Nominal vs. Real Income, Macroeconomic Policies, Fiscal Policies, Monetary Policies, International Trade, Absolute vs.	16

		Comparative Advantage, Exchange Rates, Balance of Trade, Balance of Payments, Trade Policies (All Agriculture Related)	
		Total Hours	60
TEXT BOOK	1. Cramer, Jensen, Southgate, Willey, Agricultural Economics and Agribusiness. 2. Drummond and Goodwin, Agricultural Economics, Prentice Hall		
REFERENCE BOOK/ SUGGESTED READING	1. Penson, Capps, and Rosson, Introduction to Agricultural Economics, Prentice Hall 2. Seitz, Nelson, Halcrow, Economics of Resources, Agriculture and Food, McGraw Hill.		

Course: CONTEMPORARY ECONOMICS ISSUES			Semester: VI
Course Code: BAE 310	LTP	4 0 0	Credits: 4

OBJECTIVE	To facilitate students to: <ol style="list-style-type: none"> 1. Familiarize students with basic concepts related to the Economic Survey and Union Budget. 2. Have sufficient knowledge and skills to analyze these documents. 3. Comprehend the needs of public borrowing from all possible sources to meet necessary public investment/expenditures in India. 		
LEARNING OUTCOME	Students will be able to: <ol style="list-style-type: none"> 1. Define various types of expenditures and deficits. 2. Comprehend the numerous economic budgeting like gender budgeting. 3. Demonstrate their competence in analyzing economic surveys. 4. Recognize the importance and different aspects of the union budget. 		
COURSE DETAILS	Module No.	Topic	Hours
	1.	Concepts: Fiscal Policy, Areas of Government Spending in India, Capital and Revenue Expenditure, Plan and Non-Plan Expenditures, Deficits (Fiscal, Primary, Revenue), Impact of Fiscal Deficits on the Economy.	12
	2.	The economic survey: Analysis of Current and Past Policy Emphasis.	21
	3.	The union budget: Need for the budget, Understanding the process of budget making in India, Analysis of Fiscal and Revenue Deficits, Analysis of Sources of Revenue and Expected Growth in Revenue, Tax simplification, Improvement in Administration, Expansion of Tax net and other measures to improve Revenue Receipts, Analysis of expenditure pattern and expected growth in expenditure, Thrust areas of Budget, Sectors that have received higher/lower shares of Expenditure, the reasons and consequences thereof, steps proposed to ensure effective spending.	12
	4.	Receipts: Capital Receipts, Revenue Receipts, Tax and Non-Tax Revenue, Direct and Indirect Taxes, Need for Rationalization of Tax Structure, Goods and Services Tax (GST), Actual, Revised and Budget Estimates, Zero-base Budgeting, Fiscal Devolution and Centre-state Financial Relations.	15
		Total Hours	60

TEXT BOOK	<ol style="list-style-type: none"> 1. Chakraborty, P., Intergovernmental fiscal transfers in India: Emerging trends and realities. In P. Patnaik (ed.): <i>Macroeconomics</i>. Oxford University Press. 2. Mukherjee, P., Budget making. In K. Basu, A. Maertens, <i>The new Oxford companion to economics in India</i>. Oxford University Press.
REFERENCE BOOK/ SUGGESTED READING	<ol style="list-style-type: none"> 1. Kapila, U., <i>Fiscal and budgetary developments in Indian economy since independence</i>. Academic Foundation. 2. Mukherjee, S., Present state of goods and services tax (GST) reform in India. Working Paper No. 154. <i>National Institute of Public Finance and Policy</i>. 3. Reddy, Y., Continuity changes and the way forward: The fourteenth finance commission. <i>Economic and Political Weekly</i>.

Course: ECONOMIC FORECASTING AND ANALYSIS			Semester: VI
Course Code: BAE 311	L T P	4 0 0	Credits: 4

OBJECTIVE	To looks at techniques for the evaluation of performance of forecasting methods and examines the role of forecasts in the decision-making process.		
LEARNING OUTCOME	Upon completion of the course students should be able to: <ol style="list-style-type: none"> 1. To use the various techniques in real world forecasting applications. 2. Demonstrate an understanding of the various important concepts in forecasting and different approaches for modelling trends, seasonality, and persistence. 3. Use the analytical tools that econometricians employ to analyze data. 4. Tailor-make models for their applications and use them to produce forecasts. 5. Complete basic programming tasks, including reading and modifying existing codes 		
COURSE DETAILS	Module No.	Topic	Hours
	1.	Forecasting perspective: Time series, explanatory, judgmental approaches. Forecasting horizon, main steps of forecasting task. Quantitative foundations: descriptive statistics, plots, correlation. Basics of statistical hypothesis testing, evaluating obtained p-value.	11
	2.	Macroeconomic vs. Industry Forecasting: Short review of statistics and basic regression, Discussion of key econometric concepts	12
	3.	Working with time series data, Introduction to the statistical software, Modeling and forecasting seasonality	11
	4.	Modeling and Forecasting Cycles: ARMA models, Forecasting with structural econometric models, Forecasting with combined econometric/ARMA models.	10
	5.	Practical issues in developing industry/firm level models, The development and use of forecasting models at Siemens, Interfacing with commercial economic forecasting services.	16
		Total Hours	60
TEXT BOOK	1. Michael K. Evans, Practical Business Forecasting, Practical Business Forecasting, Wiley.		

REFERENCE BOOK/ SUGGESTED READING	<ol style="list-style-type: none"> 1. Newbold, P. and T. Bos, Introductory Business and Economic Forecasting, South-Western publishing Co. 2. Enders, W., Applied Econometric Time series, John Wiley. 3. Pindyck, R.S. and D.L. Rubinfeld, Econometric Models and Economic Forecasts, McGraw. 4. Jeffrey Wooldridge, Introductory Econometrics: A Practical Approach, Cengage.
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Course: DATA ANALYTICS WITH R			Semester: VI
Course Code: BAE 312	L T P	3 0 2	Credits: 4

OBJECTIVE	The main objective of this course is to explain fundamentals of data analytics and various data analytics tools and algorithms.		
LEARNING OUTCOME	Upon completion of the course students should be able to: <ol style="list-style-type: none"> 1. Understand the data analytics fundamentals. 2. Understand Statistics and Probability Distributions 3. Understand Hypothesis Testing Fundamentals 4. Understand and apply various data analytics tools and algorithm such as Regression, cluster analysis, decision tree. 		
COURSE DETAILS	Module No.	Topic	Hours
	1.	Introduction to Data Analysis: Overview of Data Analytics, Need of Data Analytics, Nature of Data, Classification of Data: Structured, Semi-Structured, Unstructured, Characteristics of Data, Applications of Data Analytics. Standard distributions - Binomial, Poisson, Uniform, exponential, Normal.	10
	2.	R Programming Basics: Overview of R programming, Environment setup with R Studio, R Commands, Variables and Data Types, Control Structures, Array, Matrix, Vectors, Factors, Functions, R packages.	10
	3.	Data Visualization using R: Reading and getting data into R (External Data): Using CSV files, XML files, Web Data, JSON files, Databases, Excel files. Working with R Charts and Graphs: Histograms, Boxplots, Bar Charts, Line Graphs, Scatterplots, Pie Charts	10
	4.	Hypothesis Testing Fundamentals: Basics of hypothesis testing, Central Limit Theorem, Hypothesis testing using one and two samples, ANOVA, Nonparametric testing- Chi-square test	10
	5.	Descriptive statistics in R: Measures of central tendency, Measures of variability, Skewness and kurtosis, Summary functions, describe functions, and descriptive statistics by group, Correlations	10
	6.	Statistics with R: Regression (Basics of Regression, Linear Regression, Logistic Regression, Interpretation of modelling results, Violation of regression assumptions, Decision Trees	10
		Total Hours	60

TEXT BOOK	1. Mani Sekhar, Suresh Kumar, Programing with R, Cengage Publication. 2. Bishnu, Data Analysis using statistics and probability with R language, PHI Publishers.
REFERENCE BOOK/ SUGGESTED READING	1. Levin and Rubin, <i>Statistics for Management</i> , Pearson Publication. 2. Hair and Anderson, <i>Multivariate Data Analysis</i> , Pearson Publication

Course: CAREER SKILLS			Semester: VI
Course Code: BAE 313 P	LTP	002	Credits: 1

OBJECTIVE	At the end of the course the students will be able to know the correct usage of speech, tenses, active and passive voice, synonyms, antonyms, report writing, essay writing.		
LEARNING OUTCOME	After completing this course, students will be able to: <ol style="list-style-type: none"> 1. Understand correct usage of speech, tenses, punctuation. 2. Learn & practice the use of Synonyms, Antonyms. 3. Understand Paragraphing and its uses. 4. Draft how to write reports and its uses & develop skills of writing essays, notes and letter. 		
COURSE DETAILS	Module No.	Topic	Hours
	1.	Functional Grammar <ul style="list-style-type: none"> • Correct usage of parts of speech[syntax] • Parts of speech • Agreement of verb with the subject • Active and Passive Voice • Tenses • Punctuations • Sentence completion • Jumbled sentence 	05
	2.	Vocabulary Building <ul style="list-style-type: none"> • One word substitution • Synonyms • Antonyms • Phrasal verbs • Homonyms • Idioms and phrase 	05
	3.	Reading Comprehension <ul style="list-style-type: none"> • Skimming • Scanning 	02
	4.	Writing Skills <ul style="list-style-type: none"> • Paragraphing • Letters and Emails • Report writing • Essay writing 	03

		Total Hours	15
TEXT BOOK	1. Randolph h. Hudson and Benard J.Selzler, Business communication: Concept and application in Electronic Age, Jaico Reprint, Jaico, New Delhi		
REFERENCE BOOK/ SUGGESTED READING	1. Kitty o. Locker and Stephen Kyo Kaczmarek, Business communication: building critical skills, THM, New Delhi 2. Booher, Dianna, E-writing :21 st Century tool for effective communication. New york: Poket Books, Division of Simon and Schuster, Inc. 3. Guffey, Mary Ellen, e-book Business communication: Process and Product, Cincinnatiohio: Southwestern College Publishing/Thomson		

Course: TEAM BUILDING AND LEADERSHIP			Semester: VI
Course Code: BAE 314	L T P	2 0 2	Credits: 3

OBJECTIVE	To impart basic knowledge about the concepts of team building and its significance, and qualities and importance of a leader in an organization.		
LEARNING OUTCOME	After the successful completion of this course, students will be able to: <ol style="list-style-type: none"> 1. Understand the group dynamics and group behaviour to handle the organisational problems. 2. Develop skills to create an effective and high-performance team. 3. Acquire theoretical and practical knowledge to develop leadership skills and styles. 4. Identify the dynamics of group decision making in leadership. 		
COURSE DETAILS	Module No.	Topic	Hours
	1.	Introduction to Group Dynamics: Concept, characteristics and types of groups, Theories of group formation, Stages of group development, Group behavior: group norms, group cohesion and group role, evaluating team performance, goal setting of teams, Defining roles of team members.	09
	2.	Team Building: Meaning of team, Difference between group and team, Types of teams; Problem solving teams, self-managed teams, cross functional teams, virtual teams, Team building process, External and Internal factors affecting team building, Characteristics of effective team, Building high performance Teams.	09
	3.	Leadership in Organizations: Concept, function and Myths about leadership, style of leadership, Theories of leadership: trait theory, behavioral theory and situational theory.	09
	4.	Effective Leadership Behavior and Skills: Major types of leadership behavior, Leadership skills, Emerging Trends in Leadership- Women in leadership, leadership and social media.	09
	5.	Leaders and Group Decisions: Group decision making, Power and influence in teams, Leadership and team empowerment, Challenges in team decision making. Practical:	09

		Case studies and various team building, and leadership activities/games can be used in teaching various units.	
		Total Hours	45
TEXT BOOK	<ol style="list-style-type: none"> 1. Yulk G.; <i>Leadership in Organization</i>; Pearson 2. Greenberg, Gerald & A. Baron Robert; <i>Behavior in Organizations</i>; Pearson 		
REFERENCE BOOK/ SUGGESTED READING	<ol style="list-style-type: none"> 1. Hughes, Ginnett, Curphy; <i>Leadership: Enhancing the Lesson of Experience</i>; McGraw Hill 2. West Michael; <i>Effective Teamwork</i>; Excel Books 3. Sadler Philip; <i>Leadership</i>; Crest Publishing House 4. Lakes, F. <i>Leadership: Theory and Practice</i> by Peter G. Northouse. Sage Publication, New Jersey: Career Press. ISBN: 9781452203409. 		

SEMESTER VII (HONS.)

Course: ADVANCED RESEARCH METHODOLOGY			Semester: VII
Course Code: BAE (H) 401	L T P	4 0 0	Credits: 4

OBJECTIVE	The purpose of this course is to enable the students to understand the fundamentals of research methodology and use them in their research endeavors.		
LEARNING OUTCOME	<ol style="list-style-type: none"> 1. To understand the purpose of research, identify a research problem/ need, translate it into a research question and design an appropriate way to answer it. 2. To identify and understand the main qualitative and quantitative methods of business research, their merits and demerits and appropriate application areas. 3. To develop skills in choosing suitable sampling technique, measurement scales, questionnaire design, conducting interviews, surveys, and leading focus groups. 4. To formulate testable hypothesis and choose the most appropriate tools for testing them, develop skills of quantitative data analysis and interpretation of its results. 5. To communicate research findings and their implications in a clear and well-organized way, both orally and in writing. 		
COURSE DETAILS	Module No.	Topic	Hours
	1.	Introduction: Research Philosophy: Positivism, Realism, Interpretivism, Pragmatism. Basic research and Applied research, Research design and internal validity. Qualitative Research Strategy: Case Study, Ethnography, Focus Groups, Depth Interview, Projective Techniques. Quantitative Research Strategy: Survey, Experiment, Observation, Content Analysis. Research Process: Planning a research project, formulating research questions, Structuring the research proposal, Systematic Literature Review, searching databases, Issue of plagiarism, Case study approach.	14
	2.	Measurement and Scaling: Theory of measurement, Comparative scaling, Primary scales of measurement, non-comparative scaling, Questionnaire design: Questionnaire design process, Focus group discussion, Pre-testing questionnaire, Construct validity and reliability	06
	3.	Sample Design and Data Collection: Census and sample, Sampling design process and external validity, Classification of sampling techniques: probability and non-probability sampling techniques, Sample size determination, Data collection process, Online data collection,	08

		and Interaction content on web.	
	4.	Inferential Statistics and Nonparametric Statistics: Sampling Distribution, 1-sample Kolmogorov-Smirnov, z-test, Test of significance, t-test, Analysis of Variance (ANOVA), Simple linear regression, Multivariate regression, Moderation and mediation, Classification methods, Logistic, Binary, Probit, Factor Analysis, Cluster Analysis, Multi-Dimensional scaling, MANOVA, Structured Equation Modelling. Chi-Square Distributions, Wilcoxon rank-sum test and Mann-Whitney test, Kruskal-Wallis test, Rank Correlation, Goodness-of-Fit Tests. (Using Software)	20
	5.	Reporting and Thesis Writing: Structure and components of scientific reports, Types of report, technical reports and thesis, Significance, Different steps in the preparation, Layout, structure, and Language of typical reports, Illustrations and tables, drawing conclusions, Suggestions, Bibliography, referencing and footnotes, Oral presentation, Making presentation, Use of visual aids.	12
		Total Hours	60
TEXT BOOK	1. Saunders; <i>Research Methods for Business Students</i> ; Pearson Education 2. William M.K. Trochim; <i>Research Methods</i> ; Bizantra 3. Cooper & Schindler McGraw Hill 4. Zigmund Business Research Methods Cengage		
REFERENCE BOOK/ SUGGESTED READING	1. Hair, Anderson, Tatham and Black; <i>Multivariate Data Analysis</i> ; Pearson Education 2. Michael, S. Lewis-Beck, Bryman, Alan E. and Tim, Futing Liao; <i>The Sage encyclopedia of Social Science Research Methods</i> ; Sage Publications 3. Sherri, L. Jackson; <i>Research Methods: A Modular Approach</i> ; Thomson Wadsworth 4. Yin, Robert K.; <i>The Case Study Anthology</i> ; Sage Publications 5. Kaplan, David; <i>Structural Equation Modeling: Foundations and Extensions</i> ; Sage Publications 6. Denzin N. K. and Lincoln Y. S., “ <i>The Sage Handbook of Qualitative Research</i> ”, Sage Publications. 7. Alvesson M. and Skoldberg K., “ <i>Reflexive Methodology New Vistas for Qualitative Research</i> ”, Sage Publications		

Course: FINANCIAL INSTITUTIONS			Semester: II
Course Code: BAE (H) 402	L T P	4 0 0	Credits: 4

OBJECTIVE	The course has been designed to provide the students with the requisite knowledge with regard to the operating of financial institutions from a global perspective. It aims to make them aware about the regulatory mechanism adopted by the financial institutions.		
Learning Outcome	<ol style="list-style-type: none"> 1. To acquaint the students with basic characteristics of Indian Financial Institutions 2. Students will be able to understand fundamental concepts of financial institutions and markets and their role in a global perspective. 3. To explain functions performed by other types of financial institutions – insurance companies, mutual funds and development institutions. 		
Course Details	Module No.	Topic	Hours
	1.	INTRODUCTION: Meaning, role & functions of a financial system. Organized and un-organized financial system, financial assets and instrument, Financial Sector Reforms- Narsimham Committee Report I (1991) and II (1998). Formal and Informal Financial System, Key Elements of well- functioning Financial System. Role of Financial intermediaries in financial markets. Financial regulation in India (Regulatory bodies in India IRDA, SEBI, RBI etc.)	12
	2.	FINANCIAL SECTOR REFORMS: Financial sector reforms: context, need and objectives; major reforms in the last decade; competition; deregulation; capital requirements; issues in financial reforms and restructuring; future agenda of reforms; Regulation of Banks, NBFCs & FIs: Salient provisions of banking regulation act and RBI Act; Core banking solution (CBS); RTGS and internet banking, NBFCs and its types; comparison between Banks and NBFCs	12
	3.	FINANCIAL INSTITUTIONS I: Commercial Banks, Cooperative Banks, Regional Rural Banks, Recent developments MUDRA financing, Non-performing Assets (NPA) and other financing problems, Bankruptcy and Insolvency Act, Financial inclusion, Role of different banks in financial inclusion. Regulatory Mechanism; Introduction-constitution of RBI- organization and management – functions of RBI: Credit Creation and Control – Objectives- Credit Control Measures- Quantitative Credit control- Selective and direct credit control- Monetary Policy and amendments.	11

	4.	FINANCIAL INSTITUTIONS II: Life and non-life insurance companies in India: public and private, Life Insurance Corporation of India (LIC) – Overview, Objectives, and Role; General Insurance Corporation of India (GIC) – Overview, Objectives, and Functions, Mutual Funds – Introduction and their role in capital market development. Types of mutual fund schemes (open ended vs close ended, Equity, Debt, Hybrid schemes and ETFs.	11
	5.	NON-BANKING FINANCIAL INSTITUTIONS: Introduction- Role of Financial Institutions in economic development- overview of Financial Institutions- Meaning and definition of NBFI Classification of NBFI, Functions of NBFI Developmental Banks – SIDBI, NABARD, EXIM bank – Organisation, Objectives and Functions.	14
		Total Hours	60
TEXT BOOK / REFERENCE BOOK	1. Khan, M.Y.; <i>Indian Financial System</i> ; McGraw Hill 2. Guruswamy, S.; <i>Financial Markets and Institutions</i> ; McGraw Hill 3. Desai, Vasant; <i>The Indian Financial System and Development</i> ; Himalaya Publishing House		

Course: TIME SERIES AND PANEL DATA ANALYSIS			Semester: VII
Course Code: BAE (H) 403	L T P	4 0 0	Credits: 4

OBJECTIVE	To develop the basic theoretical results and how to estimate time series and panel data in practice with the help of real life and business model.		
LEARNING OUTCOME	Upon completion of the course students should be able to: <ol style="list-style-type: none"> 1. Explain specifics of panel data: when it is used and what flexibility it adds to econometric models. 2. Model dependence in conditional variance of times series data model the dynamics of several variables simultaneously and analyze relations between different time series. 3. Test data for stationarity and transform non-stationary series into stationary ones. 4. Understand specifics of time series data and be able to construct linear models for time series data 		
COURSE DETAILS	Module No.	Topic	Hours
	1.	Time Series Analysis: Forecasting through Extrapolation; Time Series Analysis: Stationary and Non-stationary times series: Trends and Unit Roots, Univariate methods: Smoothing methods; Box-Jenkins Models; ARIMA models	11
	2.	Multivariate Methods: Regression Models; Cointegration Analysis: Testing for cointegration	12
	3.	Random Walk Model; Conditional variance models: ARCH and GARCH effects, VAR (Vector Autoregressive Model)	11
	4.	Spatial Panel Data: Spatial Correlation in Panel Data, Panel Spatial Econometric Models; Time-Space Autoregressive and Moving Average	10
	5.	Panel Data: Panal data techniques; Random Effect Approach, Estimation of Panel Data-Regression model, Random Effect Model	16
		Total Hours	60
TEXT BOOK	<ol style="list-style-type: none"> 1. B. H. Baltagi, Econometric Analysis of Panel Data, John Wiley, New York. 2. W. H. Greene, Econometric Analysis, Models for Panel Data, Prentice Hall. 		

REFERENCE BOOK/ SUGGESTED READING	<ol style="list-style-type: none"> 1. M. Arellano, Panel Data Econometrics, Oxford University Press. 2. A. Colin Cameron and Pravin K. Trivedi, Microeconomics: Methods and Applications, Part V, Models for Panel Data, Cambridge University Press. 3. C. Hsiao, Analysis of Panel Data, 3rd ed., Cambridge University Press. 4. J. M. Wooldridge, Econometric Analysis of Cross Section and Panel Data, The MIP Press.
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Course: Industry and Innovation			Semester: VII
Course Code: BAE (H) 404	L T P	4 0 0	Credits: 4

OBJECTIVE	To facilitate students to Industrialize economics and realize its application in real life scenarios, to understand aggregate models of industrial experience and to understand market structure and concentration		
LEARNING OUTCOME	Upon completion of the course students should be able to: <ol style="list-style-type: none"> 1. Define various concepts of industrial economics. 2. Comprehend the various market structure and concentration. 3. Understand the industrial location theory, and mergers. 4. Interpret the internal and external sources of industrial finance 		
COURSE DETAILS	Module No.	Topic	Hours
	1.	Introduction: Scope of Industrial economics, Concept Measurement, and Sessions Debate Determinants of Efficiency of firms, - Productivity movements in India, National Productivity Council, Forms of Sessions organization of industrial classification of firms, Theory of optimum size of the firm, Factors influencing optimum size	15
	2.	Market Structure and Concentration: Market structure, Performance of the firms in different form of the market, Concentration: Determinants and meaning	15
	3.	Industrial Location: Meaning and determinants, Theories of industrial location: Alfred Weber's Deductive Analysis, Merger and Acquisitions.	15
	4.	Industrial Finance: Concepts need and types, Internal and external sources of Sessions industrial finance, Industrial growth. India during plans, Impact of economic Sessions reforms on India's industrial growth, India's industrial policy: 1956 & 1991	15
		Total Hours	60
TEXT BOOK	<ol style="list-style-type: none"> 1. Barthwal, R. R., <i>Industrial Economics: an introductory textbook</i>. New Age International. 2. Martin, S., <i>Industrial economics: economic analysis and public policy</i>. Prentice Hall. 		
REFERENCE BOOK/ SUGGESTED READING	<ol style="list-style-type: none"> 1. Ferguson, G. I., <i>Industrial economics: issues and perspectives</i>. Bloomsbury Publishing 2. The Journal of Industrial Economics: Wiley Online Library 3. Journal of Scientific & Industrial Research: Springer 		

Course: URBAN ECONOMICS			Semester: VII
Course Code: BAE (H) 405	LTP	4 0 0	Credits: 4

OBJECTIVE	<ol style="list-style-type: none"> To equip with theory and measurement of urban economic growth and development, spatial structure of cities and urbanization. To familiarize the current policy issues and programmes on urban economic growth, development and urbanization in India. 		
LEARNING OUTCOME	<p>Students will be able to:</p> <ol style="list-style-type: none"> Understand the concept of urban economics. The processes involved in urbanization and various factors affecting them. Different theories pertaining to urban growth. Different kinds of problems arising in urban planning. 		
COURSE DETAILS	Module No.	Topic	Hours
	1	Introduction- Definition and Scope of Urban Economics - Emergence and Growth of Cities, Sources of Urban Growth – Demographic sources: Natural Increase, Net migration, International migration, Trends in growth of urban population in the world- Geographical sources: Urban reclassification and physical expansion of urban boundaries – Economic sources: Cluster of people and activities -Urbanization and agglomeration economies, industrialization, services sector growth – Estimation of urban GDP- Urbanization and urban economic growth – Urbanization and globalization	10
	2	Economics of Urbanization: The Process of urbanization: Nature and dimensions, factors initiating and perpetuating urbanization process- Characteristics of an economy passing through different stages of urbanization - Classification of urban areas by demographic, geographical and economic criteria- Process of sub-urbanization	10
	3	Theories of Urban Growth: Christaller's Central Place Theory - Urban Economic Base and Urban Growth - The Human Ecological Approach to Urban Growth - City Size and Urban Growth – Linear and Circular cities - Urban Size: Ratchet-Rank Size Rule - The Cost and Benefits of City Size - Optimum City Size – Migration and urban economic growth: Harris-Todaro Model – Urban externalities and growth.	10

	4	Theories of Urban Spatial Structure: Urban Spatial Structure: Features - Concepts of City Structure - The Minimization of Costs of Friction Hypothesis -Location Equilibrium of an Urban Firm - Retail Establishments - Market Areas - Consumers and Residents - The Concentric Zone Hypothesis - Urban Residential Land Use Models: Alonso, Muth, Siegel, Park Burgess.	10
	5	Urbanization and Labour Market: Urbanisation and Labour Market Pull and Push Factors for Urbanisation in India, High Wages, Improved Infrastructure, Employment Opportunities, Educational facilities, Growth of formal and Informal economic activities, Labour Force Participation and Distribution of Workers, Street Children and Street Vendors.	08
	6	Urban Problems and Urban Planning- Over Population and congestion, Urban housing problem and increase in slums; Urban transport and peak load pricing; Urban environment: Air, Water and Noise Pollution; Urban poverty and inequality; Urban Infrastructure: Water Supply, Sanitation and Solid waste management. Introduction to urban public sector – Composition of urban public sector – Urban local bodies - Sources of revenue and pattern of expenditure of urban local bodies. Need for Urban Planning: Objectives and Techniques, Review of Existing Methods and Practices - Emerging Planning Process - Strategies and Issues – Comprehensive Development Plan – Master Plan – Jawaharlal Nehru National Urban Renewal Mission - Smart Cities	12
		Total Hours	60
TEXT BOOK	1. Edwin S. Mills., Handbook on Regional and Urban Economics, Volume 2: Urban Economics. North-Holland (Amsterdam). 2. Harris E. Hondon, Introduction to Urban Economic Analysis and Policy Appleton-Century-Crofts (New York) 3. V. Henderson J.F. Thisse, Handbook on Regional and Urban Economics, Volume 4: Cities and Geography. North-Holland (Amsterdam).		
REFERENCE BOOK/ SUGGESTED READING	1. Bidyut Mohanty, Urbanization in Developing Countries Basic Services and Community Participation, Institute of Social Science, Concept Publishing House 2. Briance A and Ravinder Singh, Housing the Urban Poor, Policy and Practice in Developing Countries, Sage Publications (New Delhi). 3. Fred Durr, The Urban Economy. London, Index Educational Publishers (London) 4. Harry W Richardson, Urban Economics, Penguin Group (New York).		

	<ol style="list-style-type: none"> 5. Hirsch W.E., Urban Economic Analysis, McGraw-Hill Book Company (New York). 6. J Vernon Henderson., Economic Theory and Cities. Academic Press (New York). 7. James Heilbrun, Urban Economics and Public Policy, St Martin's Press (New York). 8. Lloyd Rodwin and Associates (1969). Planning Urban Growth and Regional Development, MIT Press (Mass). 9. Mark Garrett, Transportation Planning, Sage Publications (New Delhi).
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Course: MONETARY THEORY AND POLICY			Semester: VII
Course Code: BAE (H) 406	LTP	4 0 0	Credits: 4

OBJECTIVE	To familiarise students with the basic concepts, theories, and approaches; to enable them to understand monetary policy framework and challenges confronting the apex monetary authorities.		
LEARNING OUTCOME	Students will be able to: To introduce the basic concepts of the monetary theory and policy in order to understand the role and functioning of financial system and monetary mechanisms of an economy. It also introduces the theories of demand for money, the supply aspect of money, theories of interest and role of monetary policy.		
COURSE DETAILS	Module No.	Topic	Hours
	1	Evolution of Monetary Standard Concept of money and its functions; monetary standard – evolution; principles of note-issue: currency principle and the banking principle; methods of note issue, India's present currency system, brief history of Indian rupee; demand for money – an overview.	15
	2	Supply of Money Money supply – instruments of money supply; determinants of money supply; H – theory of money supply; determinants of money multiplier; money multiplier process; behavioural model of money supply determination; money supply in static model; Reserve bank's analysis of money and balance sheet.	15
	3	Theories of Interest Introduction-term structure and risk structure of interest rates; theories – expectations theory, market segmentation theory, preferred habitat theory; determinants of the general structure of interest rates; heterogeneity of interest rate determination; interest rate differentials; Wicksell effect and Fisher effect.	15
	4	Monetary Policy in India Monetary policy - framework and evolution; Monetary targeting; inflation targeting by the RBI and the role of MPC; liquidity management and OMOs; monetary transmission mechanism; challenges to monetary policy ; market stabilization schemes; analysis of current monetary policy of RBI; monetary-fiscal interface in India: an overview .	15
		Total Hours	60

TEXT BOOK	<ol style="list-style-type: none"> 1. Miskin F., The Economics of Money: Banking and Financial Markets. Harper Collins Publishers. 2. Bhole, L. M., Financial Institutions and Markets. Tata McGraw Hill Comp: New Delhi. 3. Gupta, S. B., Monetary Economics. S. Chand and Com. Ltd.: New Delhi.
REFERENCE BOOK/ SUGGESTED READING	<ol style="list-style-type: none"> 1. Hubbard, G. R., Money: The Financial System and Economy. Addison Wesley: England. 2. Burton, M. and B. Brown., Financial System and Economic Principles of Money and Banking. Prentice Hall: New Delhi.

Course: PROFESSIONAL ETIQUETTE LAB			Semester: IV
Course Code: BAE (HR) 407 P	L T P	2 0 2	Credits: 3

OBJECTIVE	To bring enhancement in students through personality development training on Communication Skills, People Skills, and improving personality traits to embellish their profiles and enrich their career prospects.		
LEARNING OUTCOME	Upon completion of the course students should be able to: <ol style="list-style-type: none"> 1. Apply the conceptual understanding of communication into everyday practice. 2. Understand the importance of teamwork and group discussion skills. 3. Design a meaningful and aesthetically sound resume/curriculum vitae. 4. Create and present insightful write ups pertaining to contemporary topics on business and other topics of both national and global importance. 5. Apply business etiquette skills on professional front and will bring a change in organizational culture 		
COURSE DETAILS	Module No.	Topic	Hours
	1.	Introduction to Personality Development Program: Soft skills definition and types; Soft skills v/s Hard skills; Cardinal principles of soft skills and personality development; the ABC (appearance, behaviour and communication) elements of personality; relevance of personality development in today's business world. Professional opportunities for MBA graduates.	10
	2.	Candidate's Profile Description: Concept and creation of an effective resume and curriculum vitae. Components of a resume: The relevance of career objective, alignment of academic and experiential components; role of extra-curricular activities and hobbies in deciphering candidate's personality. Designing an influential Cover Letter. Practical sessions on making resume and cover letter.	11
	3.	Public speaking: The importance of public speaking; elements of persuasion (ethos, pathos and logos), common mistakes during public speaking. Self-introduction: a two-minute self-marketing tool; mandatory inclusions in self-introduction. Group discussion: Factual topics, controversial topics, abstract topics and case-based group discussions. Interviews: Types, relevance and mostly asked questions during interviews with their psychological implications and most appropriate answers. Rigorous training through multiple in-class activities on self-introduction, extempore, group	10

		discussion and mock interview.	
	4.	Business Etiquette: Professional Grooming- How to carry yourself; Dressing- Selection of Proper Attire as per the Situation, and Conduct- To Project One's Self in the Right Frame and Spirit. Work-Life Balance and Punctuality. Social Etiquette- Meeting and greeting people, Practicing cross-introduction for a delegate/celebrity, Dining Etiquette, Cultural Courtesy. Professional Etiquette - Phone Etiquette - Tone and Pitch of the Voice, Correspondence Etiquette, Netiquettes. Class-based individual and team participations and instructor's observations of student's learning and behavioural reflection of using business etiquettes.	14
		Total Hours	45
TEXT BOOK	1. Nitin Bhatnagar; <i>Effective Communication and Soft Skills</i> ; Pearson Education India		
REFERENCE BOOK/ SUGGESTED READING	1. Daniel Coleman; <i>Emotional Intelligence</i> ; Bantam Book. 2. Butterfield Jeff; <i>Soft Skills for Everyone</i> ; Cengage Learning, 201		

Course: ADVANCE CAREER SKILLS			Semester: VII
Course Code: BAE (H) 408 P	L T P	0 0 2	Credits: 1

OBJECTIVE	To acquaint students with the concepts of Résumé writing, cover letter and orient them to develop career skills.		
LEARNING OUTCOME	Upon completion of the course, students will be able to: <ol style="list-style-type: none"> 1. Define what a resume is and its purpose. 2. Understand types of resumes. 3. Draft suitable and effective Résumé 4. Develop various sections under Resume building 5. Summarize ways to strengthen the resume appropriately. 6. Create a cover letter 7. Learn Career skills that enables to manage one's career and job. 		
COURSE DETAILS	Module No.	Topic	Hours
	1.	Introduction to Resume Writing: Concept of Résumé Writing, Difference among Resume, Curriculum Vitae, Biodata, The Function of a Resume, Types of Resumes, Elements of Résumé, -Length, Fronts, Spacing, Layout, Margins and Printing, File Formats, Section Headings-Resume Header, Objective/Summary/Profile statement, Work Status, Experience, Education, Skills, Involvement, Research, Honors and Awards, Publications, Activities and Interests.	05
	2.	Understanding Keywords: About ATS (Applicant Tracking System), Researching Keywords, Using Keywords in Your Resume, Adapting Resumes to Applicant Tracking Systems, Resumes in the Digital Age, Job Search Strategies-Usage Of Online Job Boards And Professional Networking Sites, Employment Exchanges, Recruitment Agencies, and Job Portals respectively.	05
	3	Career Skills: Presentation Skills, Corporate Etiquette, Corporate Telephone Etiquette, Handling Corporate Interviews, Writing an Effective Email, Making Impactful Presentations, Soft Skills, Career Cruising, Understanding Different Interview Formats (e.g., Behavioral, Technical), Practicing Common Interview Questions and Developing Strong Responses, Enhancing Non-Verbal Communication Skills (Body Language, Eye Contact), Following Up After the Interview.	05
	Total Hours		15

TEXT BOOK	<ol style="list-style-type: none"> 1. Farr. M., <i>The Quick Resume & Cover Letter Book: Write and Use an Effective Resume In Just One Day</i>; JIST Publishing 2. Littleford, D., Halstead.J., and Mulrairie. C., <i>Career Skills: Opening Doors into the Job Market</i>; Palgrave Macmillan
REFERENCE BOOK/ SUGGESTED READING	<ol style="list-style-type: none"> 1. Yate.M., <i>Knock 'Em Dead Resumes: How to Write A Killer Resume That Gets You Job Interviews</i>. Adams Media 2. Mittal. N.M., <i>Interview Tips and Techniques with Resume Writing Skills</i> 3. Hatch. D., <i>Write Everything Right</i>; Direct Marketing IQ 4. Bennett. S., <i>The Elements of Résumé Style</i>; American Management Association 5. Ferguson., <i>Professional Ethics and Etiquette</i>; Infobase Publishing 6. Siddons. S., <i>The Complete Presentation Skills Handbook: How to Understand and Reach Your Audience for Maximum Impact and Success</i>; Kogan Page

SEMESTER VIII (HONS.)

Course: Labour Economics			Semester: VIII
Course Code: BAE (H) 409	L T P	4 0 0	Credits: 4

OBJECTIVE	This paper exposes students to the theoretical as well as empirical issues in relation to the labour market with special reference to India. The course covers the concept and scope of labour economics, productivity of labour, employment policies as well as labour market reforms.		
LEARNING OUTCOME	The students will be able to: <ol style="list-style-type: none"> 1. Understand the nature and concept of labour economics. 2. Evaluate nature and characteristics of labour markets in developing countries like India. 3. Comprehend the theories related to labour market. 4. Learn the concepts, policies and theories of unemployment. 5. Understand the concept of trade union and industrial disputes. 		
COURSE DETAILS	Module No.	Topic	Hours
	1.	Introduction: Labour economics; Concept and definition, scope and importance; Nature and characteristics of labour markets in developing countries like India; Rural labour markets; Classical theories of labour markets.	12
	2.	Labour demand and supply: Measuring the labour force: employment and unemployment rate, labour force participation rate, workers preferences, effect of non-labour income on working hours, effect of wage rate change on working hours, labour supply curve, labour supply elasticity. Labour Demand: Employment decision in short run and long run labour demand curve for a firm and industry, firm output decision,, impact of wage change on output and employment, Labour demand elasticity, employment effects of minimum wages, minimum wage as antipoverty program.	13
	3.	Employment Wages: Unemployment: Concept, measurement, causes and consequences; Employment policy in Five-year plans and its evaluation; Wage determination: Concepts and causes of wage differentials; Productivity and wage relationship.	11
	4.	Labour Productivity: Analysis of demand and supply of labour; Mobility and productivity of labour; Growth, structure and pattern of trade	12

		unionism; Causes of industrial disputes; Methods of settlement; Collective bargaining.	
	5.	Labour Market Reform: Meaning, functions and features of labour market, Factor determining the supply and demand for labour; Problem of child labour; Discrimination and gender bias in treatment of labour; Labour market reforms with special reference to India; Globalization and labour markets; Labour security during lock-down and pandemic.	12
		Total Hours	60
TEXT BOOK	1. Lester, R.A. <i>Economics of Labour</i> , Macmillan, New York 2. Hicks J.R. <i>The Theory of Wages</i> , Clarendon Press, Oxford 3. Deshpande L.K. and J.C. Sandesara, (Eds), <i>Wage Policy and Wages Determination in India</i> , Bombay University Press, Bombay. 4. Riveros, L. <i>Labour Market Policies and Labour Market Reforms in Socialist Economies</i> , World Bank, Washington D.C.		
REFERENCE BOOK/ SUGGESTED READING	1. Hajela, P.D. <i>Labour Restructuring in India: A Critique of the New Economic Policies</i> , Commonwealth Publisher, New Delhi. 2. McConnell, C.R. and S.L. Brue. <i>Contemporary Labour Economics</i> , McGraw-Hill, New York 3. Papola, T.S., P.P. Ghosh and A.N. Sharma (Eds). <i>Labour, Employment and Industrial Relations in India</i> , B.R. Publishing Corporation, New Delhi. 4. Das, N. <i>Unemployment, Full Employment and India</i> , Asia Publishing House, Bombay		

Course: PRACTICUM ECONOMICS			Semester: VIII
Course Code: BAE (H) 410 P	L T P	0 0 6	Credits: 3

OBJECTIVE	To facilitate students to have practical exposure to the economic models and theories, understand process of making Budget, learn dummy budgeting and dummy NPC.		
LEARNING OUTCOME	Upon completion of the course students should be able to: <ol style="list-style-type: none"> 1. Apply micro and macro in everyday situations. 2. Read data available in the public domain through an economist's lens. 3. Understand how to make budget in India. 4. Learn how to calculate PCL. 		
COURSE DETAILS	Module No	Topic	Hours
	1.	Workbook - Practical aspect of micro and macro, Challenges discussion based, and lab based	15
	2.	Act like policy maker, budget making process in India, Mathematical process of calculating GDP and National Income	15
	3.	Dummy Budgeting, Dummy NPC, Dummy calculation of Per Capita Income	15
		Total Hours	45
TEXT BOOK	<ol style="list-style-type: none"> 1. Hashimade, N. & Thornton, M. A., <i>Handbook of Research Methods and Applications in Empirical Microeconomics</i>, Edward Elgar Publishing. 2. Panda, G. R., <i>Budget and Budgetary Process in the Parliament of India</i>. 10.13140/RG.2.2.24509.05605. 		
REFERENCE BOOK/ SUGGESTED READING	<ol style="list-style-type: none"> 1. Taylor, J. B., & Woodford, M., <i>Handbook of macroeconomics</i> (Vol. 1). Elsevier. 2. Dowling, E. T., <i>Theory and Problems of Introduction to Mathematical Economics</i>. MC Graw Hill Education. 3. Alesina, A., & Perotti, R., <i>Fiscal discipline and the budget process</i>. The American Economic Review. 4. Singh, G., Financial stability reports (FSR) of the Reserve Bank of India (RBI), March and December 2010: <i>A critical review with a long-term perspective</i>. <i>Margin: The Journal of Applied Economic Research</i>, 6(1), 27-46. 5. Lienert, I., <i>Role of the legislature in budget processes</i>, Palgrave Macmillan UK 		

Course: Behavioural Economics			Semester: VIII
Course Code: BAE (H) 411	L T P	4 0 0	Credits: 4

OBJECTIVE	This paper is about interdisciplinary approach to study human behaviour. It covers the main problems and paradigms of contemporary behavioural economics a relatively new, interdisciplinary area which comes from the basic approach of economic science (rational behaviour). It covers various aspects of individual and interactive decision making in real settings and are closely connected with experimental studies. This course aims at getting the students familiar with the main approaches and problems of contemporary behavioural economics, and cross-disciplinary cooperation of social sciences.		
LEARNING OUTCOME	The expected course outcomes are as follows: <ol style="list-style-type: none"> 1. To familiarize the students with the discipline of behavioural economics. 2. To help the students to understand the concepts of preference, risk etc. 3. To familiarize them with inter temporal choice. 4. To make them understand about the strategic interactions & behavioural game theory. 5. To familiarize students with nudges, policy & happiness. 		
COURSE DETAILS	Module No.	Topic	Hours
	1.	Introduction to Behavioural Economics: Behavioural economics Concept and evolution, Relation with other disciplines, Methodology of behavioural economics; Motivation and personality in economic behaviour- Need for achievement, sensation seeking and risk attitude-altruism-time preference.	15
	2.	Perception, Preference and Prediction: Perception- Price perception, Perception of money and inflation; Values, preference and choice, Beliefs-Heuristic and biases, Mis-prediction and projection, Bias anticipation and information avoidance; Decision making under risk and uncertainty, Prospect theory- Role of reference; Dependent preference in both risky and risk free situation.	15
	3.	Emotions and Intertemporal Choice: Emotions and utility functions- Emotions & consumer choice, Subjective well being- Well being and income- poverty, unemployment and consumer satisfaction; Discounted utility model- Origin, features, methodology and anomalies; Alternative intertemporal choice models.	15

	4.	Strategic Interaction, Nudges and Happiness: Behavioural game theory, Modelling of social preferences- Nature and factors affecting social preferences; Inequality aversion model; Reciprocity model; Nudges, policy and happiness- The application.	15
		Total Hours	60
TEXT BOOK	1. Dhami, S. <i>The foundations of behavioral economic analysis</i> . Oxford University Press.		
REFERENCE BOOK/ SUGGESTED READING	1. Wilkinson, N., & Klaes, M., <i>An introduction to behavioral economics</i> . Bloomsbury Publishing. 2. Vuchinich, R. E., & Heather, N. (Eds.). <i>Choice, behavioral economics, and addiction</i> . Elsevier.		

Course: Population Studies			Semester: VIII
Course Code: BAE (H) 412	L T P	4 0 0	Credits: 4

OBJECTIVE	To educate the students about the fundamentals of population studies like fertility, mortality, migration, besides the composition of population and its estimation/projection.		
LEARNING OUTCOME	Upon completion of the course students should be able to: <ol style="list-style-type: none"> 1. Develop theoretical understanding regarding various demographic changes and analyse the changes in population in India and the world. 2. Demonstrate an understanding of population dynamics and the changes in mortality, fertility and migration. 3. Examine the relationship between population growth and economic development and the way in which it affects the social, economic, cultural and political life of the people. 4. Develop a good base for further higher research studies etc. 5. Analyse the current status and trends in population size, composition and distribution. 6. Evaluate population policy, its formulation and role in the future of the country. 		
COURSE DETAILS	Module No.	Topic	Hours
	1.	Meaning, nature and scope of population studies; Population dynamics: Mortality-Concepts, Measurement and determinants of infant mortality; Fertility-Importance, measures and determinants; Migration-Concept and types; Difference between migration and mobility.	11
	2.	Population composition: Age-sex composition, Role of population pyramids; Global variation in population size and growth; Concept of population projections and estimates.	12
	3.	Malthusian theory of population growth; Optimum theory of population; Theory of demographic transition; Population and economic development; Population, economy and environmental linkages; Population growth and sustainable development.	11
	4.	Population scenario of India- Size and growth; Changing pattern of sex ratio in India; Age structure of population; Infant and child mortality rates; Maternal mortality rates, Life expectancy;	10
	5.	Trends and pattern of migration and urbanization in India; Factors responsible for high fertility rates in India; The new population policy; Latest Census of Government of India; Demographic dividend in India-Opportunities and	16

		challenges.	
		Total Hours	60
TEXT BOOK	1. D.C Krishnaraj, M, R.M, Sudarshan & A Sharif, Gender, Population and Development, Oxford University Press, New Delhi.		
REFERENCE BOOK/ SUGGESTED READING	1. Agarwal S.N, India, s Population Problems, McGraw Hill, New Delhi Thomson, Warren S. and Levis, David T, Population Problems, Tata McGraw Hill, New Delhi, Govt. of India- Census of India 2. Chaubey, P.K, Population policy in India, Himalayan Publishing House, Bombay Simon J.L, Theory of Population Growth and Economic Growth, Blackwell, Oxford 3. Srinivasan K, Basic Demographic techniques and Applications, Sage Publication, Thousand Oak Bonar, James, Malthus and His Works, 4. S.C. Gulati, Fertility in India: An Econometric Study of Metropolis , Sage, New Delhi. 5. H.Shyrock et.al, The Methods & Materials of Demography. U.S. Department of Commerce, Washington. 6. K. C. Mitra. A Textbook of Population Studies: Theory and Principles. DOMINANT PUBLISHERS & DISTRIBUTORS (P) LTD.		

Course: Rural Economics			Semester: VIII
Course Code: BAE (H) 413	L T P	4 0 0	Credits: 4

OBJECTIVE	The course on rural economics attempts to sensitize students about the dynamics of changes in the rural economy. It includes the study of problems faced by rural population and also includes the critical review of various schemes and projects that benefit the rural population.		
LEARNING OUTCOME	The students will be able to: <ol style="list-style-type: none"> 1. Develop critical and creative thinking about rural economies. 2. Understand the structure of rural economies - fanning, industrialization and possible interactions, rural organizations and problems in rural economics. 3. Gain insight into the socio-economic structure of rural India. 4. Understand the problems and prospects of rural development in India. 5. Evaluate the application of local strategies for economic development. 		
COURSE DETAILS	Module No.	Topic	Hours
	1.	Features of Rural Economy: Rural Economics: Nature and scope; Special features of rural economy; Factors affecting rural economy; Approaches to rural development: Sectoral, Multi-sectoral, Territorial and Local; Rural-urban linkages; Panchayati Raj institutions and rural development; Rural employment schemes in India	12
	2.	Natural Resource Use: Natural resources and their importance in rural development; Resource use: Land utilization and land reforms; Forest resource and social forestry; Other allied activities-Animal husbandry, dairy and poultry.	12
	3.	Rural Finance and Marketing: Rural finance and sources of rural credit; RBI and rural credit; Role of cooperatives and commercial banks in rural finance; NABARD and RRBs; Rural indebtedness: Nature, causes and consequences; Micro-finance and problems of rural indebtedness; Rural marketing: Traditional and regulated markets.	12
	4.	Policies for Rural Development: Technical changes in agriculture; Agra-industries: Meaning, features and problems; Economic and social infrastructure: Concept of PURA and Bharat Nirman; Strategies of rural development during Five-year plans; Agricultural exports: Present position, policy and problems.	12

	5.	Role of Co-Operation in Reconstruction of Rural Economy: Globalization and Cooperation. Non- Credit Cooperatives: Importance, organization, Progress and problems of A) Industrial Co-Operatives, B) Labour Co-Operatives, Other Co-Operative in India – Need, Organization, Working and Problems of: 1. Consumer Cooperatives, 2. Housing Cooperatives.	12
		Total Hours	60
TEXT BOOK	1. Hirschman, A, O. <i>The Strategy of Economic Development</i> , Yale University Press 2. Robins, A.N. Tensery. <i>Rural Resources Development</i> , K.G.Wills. 3. DS., Tyagi. <i>Public Distribution in India</i> , Sage Publication.		
REFERENCE BOOK/ SUGGESTED READING	1. Singh, Radha Raman. <i>Studies in Regional Planning and Rural Development</i> , Associated Book Agency. 2. Arora, R. <i>Integrated Rural Development</i> , S. Chand Publication. 3. Raghava Rao, D.V. <i>Panchayats and Rural Development</i> , Ashish Publication. 4. Sukhpal Singh. <i>Contract Fanning and the State: Experience of Thailand and India</i> , Kalpaz publication.		

Course: RESEARCH PAPER WRITING AND SEMINAR (PRESENTATION SKILLS)			Semester: VIII
Course Code: BAE (H) 414 P	L T P	2 0 2	Credits: 3

OBJECTIVE	To enhance critical thinking skills through the analysis and evaluation of scholarly articles, research papers, and case studies and To develop effective communication skills by presenting research findings and engaging in group discussions
LEARNING OUTCOME	<p>Upon completion of the course students should be able to:</p> <ol style="list-style-type: none"> 1. Analyze and critically evaluate scholarly articles, research papers, and case studies. 2. Effectively communicate research findings through oral presentations and written reports. 3. Engage in meaningful and constructive discussions on various academic topics. 4. Demonstrate collaborative skills by actively participating in group activities and providing feedback to peers. 5. Apply research skills to conduct independent research, literature reviews, and data analysis. 6. Demonstrate interdisciplinary thinking by integrating knowledge from different fields of study. 7. Apply professional skills, such as time management, organization, and teamwork, to academic and research endeavors. 8. Develop a research proposal or project plan for future academic or professional pursuits.
COURSE DETAILS	<p>Course Requirements:</p> <ol style="list-style-type: none"> 1. Eligibility: This course is open to undergraduate students from all majors who have completed the prerequisite courses as specified by the academic institution. 2. Attendance: Regular attendance is expected for all seminar sessions. Students are required to attend a minimum of 75% of the seminar sessions to be eligible for assessment. 3. Active Participation: Active participation in class discussions, group activities, and presentations is crucial. Students are expected to contribute their ideas, ask questions, and engage in meaningful discussions. 4. Research and Preparation: Students are required to conduct independent research, literature reviews, and data analysis as assigned by the instructor. Timely completion of assigned readings and preparation for seminar topics is essential. 5. Presentations and Reports: Students will be required to deliver oral presentations and submit written reports based on their own research findings and two separate seminar topics. These presentations and reports should demonstrate critical analysis, effective communication, and adherence to

	<p>academic writing conventions.</p> <ol style="list-style-type: none"> 6. Collaboration and Peer Feedback: Students will engage in group discussions, collaborative activities, and provide constructive feedback to their peers. Active participation and respectful engagement in group work are expected. 7. Professionalism: Students are expected to demonstrate professional behavior, including punctuality, respect for others' opinions, and adherence to ethical guidelines for research and academic integrity. 8. Timeliness: All assignments, presentations, and reports must be submitted within the specified deadlines. Late submissions may be subject to a penalty as determined by the instructor. 9. Technology and Materials: Students must have access to the necessary technology and materials required for the seminar, including a computer, internet access, and relevant software applications for research and presentations. 10. Prerequisite Knowledge: Students should have a solid foundation of knowledge in their respective fields of study, including basic research skills and familiarity with academic writing conventions.
TEXT BOOK	<ol style="list-style-type: none"> 1. Day, R. A., & Gastel, B., How to write and publish a scientific paper. Greenwood.
REFERENCE BOOK/ SUGGESTED READING	<ol style="list-style-type: none"> 1. Swales, J. M., & Feak, C. B., Academic writing for graduate students: Essential tasks and skills. University of Michigan Press. 2. Walliman, N., Research methods: The basics. Routledge.

Course: Research Publication Ethics			Semester: VIII
Course Code: BAE (H) 415	L T P	2 0 2	Credits: 3

OBJECTIVE	To facilitate students to understand the philosophy of science and ethics, research integrity and publication ethics, to understand the usage of plagiarism tools and to identify research misconduct and predatory publications.		
LEARNING OUTCOME	Upon completion of the course students should be able to: <ol style="list-style-type: none"> 1. Understand basic philosophy and ethics related to publication and scientific conduct. 2. Learn publication ethics and comprehend what is publication misconduct. 3. Introduced publication ethics and open access publications. 4. Understand indexing and citation databases, open access publications, research metrics 		
COURSE DETAILS	Module No.	Topic	Hours
	1.	Research Ethics in the Digital Age: Fundamentals and Problems; Data Protection Laws, Research Ethics and Social Sciences; Crowd-Based Documentation of Plagiarism.	09
	2.	Developing Research Standards in a Digitalized World: <ul style="list-style-type: none"> • Perception of Digital Methods' Ethics among Researchers • Ethical Issues in Collecting Data from Informant of the Field • Redundant publications: duplicate and overlapping publications, salami slicing. 	07
	3.	PUBLICATION ETHICS (THEORY SESSIONS): <ul style="list-style-type: none"> • Publication ethics: definition, introduction and importance • Best practices / standards setting initiatives and guidelines: COPE, WAME, etc. • Publication misconduct: definition, concept, problems that lead to unethical behavior and vice versa, types • Violation of publication ethics, authorship and contributor ship • Identification of publication misconduct, complaints and appeals • Predatory publishers and journals 	09

	4	Open Access Publishing: <ol style="list-style-type: none"> 1. Open access publications and initiatives 2. SHERPA/RoMEO online resource to check publisher copyright & self-archiving policies 3. Software tool to identify predatory publications developed by SPPU 4. Journal finder / journal suggestion tools viz. JANE, Elsevier Journal Finder, Springer Journal Suggested, etc. 	09
	5	Software Tools: <ol style="list-style-type: none"> 1. Use of plagiarism software like Turnitin and Urkund Research Metrics: <ol style="list-style-type: none"> 1. Impact Factor of journal as per Journal Citation Report, SNIP, SIR, IPP, Cite Score 2. Metrics: h-index, g index, i10 index, altmetrics 	11
		Total Hours	45
TEXT BOOK	<ol style="list-style-type: none"> 1. Dobrick, F M, Fischer Lutz M., <i>Research Ethics in the Digital Age: Ethics for the Social Sciences and Humanities in Times of Mediatization and Digitization</i>. Springer 2. Oliver P, “<i>The Student's Guide to Research Ethics</i>”, Open University Press, 		
REFERENCE BOOK/ SUGGESTED READING	<ol style="list-style-type: none"> 1. Todorovich M, Kurtz P, “<i>The Ethics of Teaching and Scientific Research</i>”, Miro Torovich; Paul Kurtz; Sidney Hook Prometheus Books. 2. Stanley B. H., Sieber J. E., Melton G. B., “<i>Research Ethics: A Psychological Approach</i>”, University of Nebraska Press. 3. Salzano F. M., Hurtado A. M., “<i>Lost Paradises and the Ethics of Research and Publication</i>”, Oxford University Press. 4. Paul Oliver, <i>The Student's Guide to Research Ethics</i>. Open University Press. 		

Course: DISSERTATION & VIVA VOCE			Semester: VIII
Course Code: BAE (H) 416	L T P	0 0 0	Credits: 12

OBJECTIVE	Project work is aimed at sharpening the research skills, develop a practical Understanding of the Hospitality system, attain some field experience etc	
LEARNING OUTCOME	Upon successful completion of this course, the student will have demonstrated the ability to: <ol style="list-style-type: none"> 1. Develop understanding of research methodology. 2. Identify the research techniques to learn about various hospitality issues, 3. Discuss and explain the research outcome. 	
COURSE DETAILS	Module No.	Topic
	1.	<p>Keeping in view the diverse nature of industry & its long- term implications on the economy, society, culture & environment, It is mandatory to do some project work so as to sharpen the research skills, develop a practical understanding of the system, attain some field experience etc. Students are required to prepare a project on a topic of their choice approved from Faculty Guide.</p> <p>The Project should include:-</p> <ul style="list-style-type: none"> • The First page should include Name of the Institute / University, Project undertaken, Roll Number & Name. • Certificate by Candidate of genuine work. • Acknowledgement. • Certificate of approval. • Introduction to the topic. • Problem Definition <ul style="list-style-type: none"> - Need of study - Problem Definition - Research objective - List of Information • Research Methodology <ul style="list-style-type: none"> - Research design - Source of data - Instrumentation of data collection - Sampling Design • Analysis, Findings & Interpretation. • Suggestions & Recommendations. • Conclusion or Salient Findings • Limitation • Bibliography • Annexure

INTERNATIONAL ECONOMICS (INE)

Course: CUSTOM CLEARANCE AND PROCEDURE			Semester: V/VI/VII
Course Code: INE 101 E	L T P	3 0 0	Credits: 3

OBJECTIVE	To familiarize students with the process of international customs clearance operations and to form a base of policy framework in International Business with special emphasis on Indian Customs		
LEARNING OUTCOME	On completion of this course, the students will be able to: <ol style="list-style-type: none"> 1. Explain the concepts in custom clearance in international business with respect to foreign trade. 2. Apply the current custom clearance phenomenon and to evaluate the global business environment in terms of economic, social and legal aspects. 3. Analyse the principle of international business and strategies adopted by firms to export products globally. 4. Integrate concept in custom clearance concepts with functioning of global trade 		
COURSE DETAILS	Module No.	Topic	Hours
	1.	CUSTOMS CLEARANCE PROCEDURE: Customs duty Meaning, Why and when levied, How calculated, whom to pay and how to pay. Customs Duty Exemption & Redemption Schemes. Incentive schemes of Government of India. Relevant chapter of FTP (Chapter 3). Customs clearance – Imports BoE, Appraisal, Assessment and Examination of goods. Customs clearance – Exports shipping bill, Appraisal, Assessment and Examination of goods.	13
	2.	Understanding Incoterms & Documents required for Preparation of main documents: Choosing the Correct Incoterm for Your International Trade Transaction; The Role of Incoterms in International Trade; Identifying the Buyer and Sellers Responsibilities Under Incoterms; Identifying the Incoterms Rules Bill of Lading Auxiliary documents Mate's Receipt Inspections Certificate Insurance Certificate Place of Origin Packing/Shipping note Antiquity BlackList Certificate and others; Aligned documents system Master documents - I and Master documents - II	12
	3.	DGFT and CBEC: Ministry of commerce and Industry; office of DGFT, its functions, incentive schemes. Export promotion schemes of GOI. CBEC, Ministry of Finance, Department of Revenue	12

		and Department of Duty Drawback	
	4.	FOREIGN TRADE POLICY: How to read the Foreign Trade Policy. HS Code. Prohibited, Restricted, Channelized and freely importable items. Foreign Exchange rate and its implication on customs clearance	08
		Total Hours	45
TEXT BOOK	1. Dr. Ram Singh: International Trade Procedures and Documentation' Oxford Higher education. 2. C. Rama Gopal Export Import Procedures, Documentation and Logistics'' New Age Intl' Publishers.		
REFERENCE BOOK/ SUGGESTED READING	1. Pierrie David: International Logistics' Biztantra		

Course: TRADE NEGOTIATION			Semester: V/VI/VII
Course Code: INE 102 E	L T P	3 0 0	Credits: 3

OBJECTIVE	To make students understand the movement of Foreign Exchange rates and the how Exchange rates are determined and calculation of Real and Effective Exchange rates.		
LEARNING OUTCOME	On completion of this course, the students will be able to: <ol style="list-style-type: none"> 1. Understand the fundamental concepts of negotiation, including the negotiation process, strategies, and tactics. 2. Recognize the impact of cultural differences on negotiation dynamics and outcomes. 3. Analyze concession strategies and their implications in the negotiation process. 4. Identify and effectively manage deadlocks in negotiations through creative problem-solving and conflict resolution techniques. 5. Apply negotiation principles to real-world business scenarios, considering multiple variables and stakeholder interests. 		
COURSE DETAILS	Module No.	Topic	Hours
	1.	Introduction: Negotiation Concepts; Origin, Personality Theory and Personality Types; Steps of Negotiation, BATNA, ZOPA, Framing, Anchoring, Counter Anchoring and Dilemma (Negotiation)	10
	2.	Culture and Cross Culture Dynamics: Impact of Culture on Business Negotiations; Cross-culture differences and dynamics- Advice and methods/techniques	12
	3.	Persuasion, Concession and Deadlocks: Persuasion- Meaning and Rules of effective persuasion; Concessions - Types of Concessions and its employability; Deadlocks- Meaning, identification and resolution	12
	4.	Business Negotiations-Miscellaneous aspects: Negotiation conflict styles, Conflict Model, Thomas Kilmann Instrument (TKI), applications of the scorecard, Typical Behaviours - Appropriate and Inappropriate scenarios.	11
		Total Hours	45
TEXT BOOK	<ol style="list-style-type: none"> 1. Negotiations - Harvard Business Essentials - Harvard Business School Publishing Corporation 2. Persuading Aristotle by Peter Thompson. The Electric Book Company, 20 		

	Cambridge Drive, London 3. Effective Negotiating, Jeremy Comfort, Oxford Business English Skills, Oxford University Press
REFERENCE BOOK/ SUGGESTED READING	1. International Trade Negotiations, Oxford; Pervez Ghauri & Jean-Claude Usiner. 2. Culture, International Business, Michael, Czinkota, Ikka a Ronkainen & Michael H Moffet, Wiley India Edition

Course: WTO AGREEMENTS			Semester: V/VI/VII
Course Code: INE 103 E	L T P	3 0 0	Credits: 3

OBJECTIVE	This course aims to provide students with a comprehensive understanding of the World Trade Organization (WTO) Agreements, focusing on key units that form the backbone of international trade regulations.		
LEARNING OUTCOME	On completion of this course, the students will be able to: <ol style="list-style-type: none"> 1. Demonstrate a comprehensive understanding of the historical development, principles, and functions of the General Agreement on Tariffs and Trade (GATT) and the World Trade Organization (WTO). 2. Examine and interpret the provisions of the Agreement on Market Access and the Non-Agriculture Market Access Agreement. 3. Evaluate the impact of GATS on international trade in services, including the concepts of market access, national treatment, and the Most-Favored-Nation principle. 4. Examine the Trade-Related Aspects of Intellectual Property Rights (TRIPS) agreement and the Agreement on Trade-Related Investment Measures (TRIMS) in detail. 		
COURSE DETAILS	Module No.	Topic	Hours
	1.	Introduction: GATT/WTO, Historical Background; structure of WTO and its main tenets, Its Decision-Making Process, Its Secretariat. Dispute Settlement Mechanism- Subsidies and Countervailing Duties, Anti- dumping Duties:	13
	2.	Agreement on Market Access & Non-Agriculture Market Access Agreement: Agreement on Agriculture: Its Impact on Indian Agriculture Agreement's Main Provisions, Subsidies on Agriculture in US and other OECD countries Sanitary and Phyto-Sanitary Measures. Agreement on Textile and Clothing; Impact-Analysis on Indian Economy: Its Main Provisions.	12
	3.	GENERAL AGREEMENT ON TRADE IN SERVICES: Opportunities and Threats for Indian Services Sector. Its Main Provisions, Various Modes of Services. national treatment, and the Most-Favored-Nation principle. Multilateralism Vs Regionalism Assessment of the Impact on Developing Countries and India	12

	4.	TRIPS and TRIMS: Trade-Related Intellectual Property Rights (TRIPS), Various Types of Intellectual Properties, Provisions of the Agreement, Recent Issues in TRIPs Agreement. Trade-Related Investment Measures (TRIMs), Main Provisions of the Agreement, The Role of TRIMS in Economic Development in Developing Countries.	08
		Total Hours	45
TEXT BOOK	1. Asif H, <i>The WTO Agreements: Deficiencies, Imbalances and Required Changes</i> 2. WTO, <i>Understanding the WTO: Basics of the World Trade Organization</i> by World Trade Organization		
REFERENCE BOOK/ SUGGESTED READING	1. Asif H, <i>The WTO Agreements: Deficiencies, Imbalances and Required Changes</i> 2. WTO, <i>Understanding the WTO: Basics of the World Trade Organization</i> by World Trade Organization 3. John H. Jackson, William J. Davey, and Alan O. Sykes, <i>World Trade Organization: Law, Practice, and Policy</i>		

Course: Exchange Rate Regime			Semester: V/VI/VII
Course Code: INE 104 E	L T P	3 0 0	Credits: 3

OBJECTIVE	To make students understand the movement of Foreign Exchange rates and the how Exchange rates are determined and calculation of Real and Effective Exchange rates.		
LEARNING OUTCOME	On completion of this course, the students will be able to: <ol style="list-style-type: none"> 1. Demonstrate a comprehensive understanding of fundamental concepts related to exchange rates. 2. Analyze the factors influencing exchange rate determination. 3. Understand the structure and functioning of the foreign exchange market. 4. Evaluate the effectiveness of fiscal and monetary policy tools within the Mundell-Fleming model under different exchange rate regimes. 		
COURSE DETAILS	Module No.	Topic	Hours
	1.	Introduction: Exchange Rates Concepts: Nominal Exchange Rate and Real Exchange Rate, mint parity theory; PPP: Absolute and Relative Purchasing Power Parity; Fixed and flexible exchange rate – forward rate – spot rate – nominal, real, and effective rate of exchange–hedging and speculation–future options (concepts only). Devaluation and Revaluation; J-Curve	10
	2.	Exchange Rate Determination and Exposures: Interest rate determination: interest rate parity and purchasing power parity, currency overshooting and fisher effect, stability of foreign exchange market and Marshall-Lerner condition. Determination of Exchange Rate in a Free Market Foreign exchange exposure: statistical measurement of foreign exchange exposure, transaction, economic and translation exposure, managing these exposures and hedging strategies adopted in international trade.	12
	3.	Foreign Exchange Market: Functions of foreign exchange markets - Forex Market participants -Demand and supply of foreign exchange. Exchange rate system in India-managed floating – partial and full convertibility on current and capital accounts	10

	4.	Exchange Rate Regime: Perfect Capital Mobility under Fixed Exchange Rate; Perfect Capital Mobility under Flexible Exchange Rate; The effectiveness of Fiscal Policy and Monetary Policy in Mundell Fleming model under different exchange rate regimes.	13
		Total Hours	45
TEXT BOOK	1. Salvatore-International Economics-8th Edition 2. Soderstein, B O and Geffry Reed, International Economics, Palgrave Mc Milan		
REFERENCE BOOK/ SUGGESTED READING	3. Jagdish Bhagwati, T.N. Srinivasan: Lectures on International Trade, MIT Press 4. W.M. Corden Trade Policy and Welfare, Clarendon Oxford. 5. Handbook of Development, Trade & WTO: World Bank Publications. 6. Paul Krugman and Maurice Obstfeld: International Economics, 10th Edition: Pearson 7. Levi, Maurice: International Finance, McGraw Hill Inc., New York. 8. Madura, Jeff, International Financial Management, Cengage Learning.		

Course: INTERNATIONAL TRADE			Semester: V/VI/VII
Course Code: INE 105 E	L T P	3 0 0	Credits: 3

OBJECTIVE	To enable the students to understand the impact of culture on international companies and to improve their cross-cultural competencies.		
LEARNING OUTCOME	Upon completion of the course students should be able to: <ol style="list-style-type: none"> 1. Understand the concept of Import and Export 2. Understand the export import policy of India. 3. Describe the process of Export Order 4. Identify the role of Export Promotion Organization 5. Analyze the impact of Export-Import policy of India on international business. 		
COURSE DETAILS	Module No.	Topic	Hours
	1.	Import-Export Management: Import-export management; key features, foreign trade institutional framework and functions, documentation overview and facilitation, improving export performance.	09
	2.	Processing of Export Order Processing of export order, Nature and format of export order, Examination and confirmation of export order, Manufacturing or procuring goods. Pre-Shipment inspection, Transportation of goods to port of shipment, Dispatch of documents by forwarding agent to the exporter, Presentation of documents to bank Claiming export incentives, Duty drawback.	12
	3.	Export Promotion Organization Export promotion organization: its objectives, Importance of institutional infrastructure, Govt, policy making and consultations, FERA and FEMA, Foreign Trade policy Indian Trade Promotion Organization (ITPO), Indian Institute of Foreign Trade (IIFT) Indian Institute of Packaging (IIP), Indian Counsel of Arbitration (ICA), Federation of Indian Export Organization (FIEO) Export Processing Zones (EPZ) Export Oriented Units (EOUS), Facilities for Units in EOUs, EPZA, ENTP and STP	15
	4.	Export Import Policy of India Meaning and General objectives, Highlights and implications of latest Export-Import Policy. Significance of EXIM Policy, Impact on the Indian Economy	09
		Total Hours	45

TEXT BOOK	<ol style="list-style-type: none"> 1. Varma, S.; <i>International business</i>, Pearson Education 2. Francis, C. <i>International Trade and Export Management</i>: Himalaya Publishing House 3. Khurana, P.K, <i>Export Management</i>: Galgotia Publishing
REFERENCE BOOK/ SUGGESTED READING	<ol style="list-style-type: none"> 1. Varma, M. L.; <i>International Trunk</i>: Vikas Publishing House 2. Kumar, A.; <i>Export and Import Management</i>, Excel Books 3. Govt. of India, EXIM Policy, Ministry of Commerce and Industry 4. Justin P.; <i>International, Business</i>; PHI Learning

FINANCIAL ECONOMICS (FNE)

Course: FINANCIAL ECONOMICS			Semester: V/VI/VII
Course Code: FNE 106 E	L T P	3 0 0	Credits: 3

OBJECTIVE	This course provides a strong theoretical foundation and an economic framework to understand the world of modern finance. Major topics in the course include: time value of money; fixed-income securities; bond pricing and the term structure of interest rates; portfolio theory and pricing models such as the capital asset pricing model; hedging, speculation, and arbitrage; futures and options contracts; determination of forward and futures prices; trading strategies involving options; binomial trees; and the Black-Scholes-Merton option pricing model		
LEARNING OUTCOME	Students acquire extensive theoretical knowledge in portfolio risk management, capital asset pricing, and the operation of financial derivatives. The course familiarises students with the terms and concepts related to financial markets and helps them comprehend business news/articles better. The course also helps to enhance a student's understanding of real life investment decisions. The course has a strong employability quotient given the relatively high demand for skilled experts in the financial sector.		
COURSE DETAILS	Module No.	Topic	Hours
	1.	Investment theory and portfolio analysis: deterministic cash flow streams; basic theory of interest; discounting and present value; internal rate of return; evaluation criteria; fixed-income securities; bond prices and yields; interest rate sensitivity and duration; immunisation; the term structure of interest rates; yield curves; spot rates and forward rates	10
	2.	Single period random cash flows; mean-variance portfolio theory; random asset returns; portfolios of assets; portfolio mean and variance; feasible combinations of mean and variance; mean-variance portfolio analysis: the Markowitz model and the two-fund theorem; risk-free assets and the one-fund theorem.	12
	3.	CAPM: the capital market line; the capital asset pricing model; the beta of an asset and of a portfolio; security market line; use of the CAPM model in investment analysis and as a pricing formula; the CAPM as a factor model, arbitrage pricing theory	10
	4.	Futures, options and other derivatives: introduction to derivatives and options; forward and futures contracts; options; other derivatives; the use of futures for hedging, stock index futures; forward and futures prices; interest rate futures and duration-based hedging strategies, option	13

		markets; call and put options; factors affecting option prices; put-call parity;	
		Total Hours	45
TEXT BOOK	1. Brealey, R., Myers, S., Allen, F., Mohanty, P., Principles of corporate finance, McGraw Hill.		
REFERENCE BOOK/ SUGGESTED READING	1. Hull, J., Basu, B., Options, futures, and other derivatives, Pearson Education. 2. Luenberger, D., Investment science. Oxford University Press.		

Course: FINANCIAL ECONOMETRICS			Semester: V/VI/VII
Course Code: FNE 107 E	L T P	4 0 0	Credits: 04

OBJECTIVE	The objective of the course is to expose students to econometric methods used in finance. The focus will be on the econometrics of financial markets.		
LEARNING OUTCOME	Upon completion of this course, students will be able to. <ol style="list-style-type: none"> 1. Basics understanding of financial econometrics, pricing models, and risk estimation. 2. Use event-study methodology in applied finance research. 3. Forecast financial data using high-level econometric techniques and measure their effectiveness. 4. Understanding of financial modeling using time series methods. 		
COURSE DETAILS	Module No.	Topic	Hours
	1.	Introduction: Introduction to financial econometrics and an overview of its applications; Simple Regression with Classical Assumptions; Least Square Estimation And BLUE, Multiple Regression Model. Definitions of asset returns, distributional properties, and stylized facts of asset returns; theoretical models of financial markets (Capital Asset Pricing Model, Efficient market hypothesis, random walk model, Multifactor Pricing Model).	10
	2.	Basic concepts of Time Series Analysis: Stochastic process. Time Series as a discrete stochastic process. Characteristics of a Stochastic process (mean, standard deviation, auto covariation, autocorrelation, partial autocorrelation). Stationary and non-stationary stochastic process.	10
	3.	Univariate and Multivariate Time Series Analysis: Autoregressive Models AR(p), Moving Average Models MA(q), Unit Root tests – Dickey-Fuller test, Augmented Dickey-Fuller and Philips Perron tests. Weak Stationarity; Cross-Correlation matrices; Vector models for asset returns – Vector Autoregressive Models, Granger Causality, Impulse response Analysis and Orthogonalized Impulse Response Analysis; Cointegrated Vector Autoregressive Models; Error Correction Models.	15
	4.	Modeling Assets Return Volatility: Definition of volatility and returns, return forecasting and estimation, features of volatility in financial time series; ARCH, GARCH, EGARCH, and other variations of	15

		conditional heteroscedasticity models.	
	5	Extreme Values, Quantile Estimation, and Value at Risk: VaR as a quantile risk measure of asset portfolios; econometric approaches to VaR estimation. Extreme value theory (EVT); empirical estimation of extreme values of financial time series; application of EVT in VaR estimation.	10
		Total Hours	60
TEXT BOOKS	<ol style="list-style-type: none"> 1. R. S. Tsay, Analysis of Financial Time Series, Wiley Series in Probability and Statistics, 2. Wang, P., <i>Financial econometrics</i>. (Routledge). 		
REFERENCE BOOKS	<ol style="list-style-type: none"> 1. Linton, O., <i>Financial econometrics</i>. Cambridge University Press. 2. Rachev, S. T., Mittnik, S., Fabozzi, F. J., & Focardi, S. M., <i>Financial econometrics: from basics to advanced modeling techniques</i>. John Wiley & Sons. 3. Gujarati, D. N., <i>Essentials of econometrics</i>. Sage Publications. 		

Course: Economics of Insurance			Semester: V/VI/VII
Course Code: FNE 108 E	L T P	3 0 0	Credits: 3

OBJECTIVE	This course deals with the basic concepts of insurance economics. Further, it intends to impart knowledge of the concept of risk associated with insurance. After introducing the concepts of insurance and risk, emphasis is laid down on various aspects of insurance economics. At the last evolution and regulation of the insurance industry in India has been discussed.		
LEARNING OUTCOME	After completion of the course, students will know: 1. The concepts, functions and significance of insurance and risk. 2. The role of insurance and risk in an economy. 3 The evolution and regulations of the insurance sector in the Indian economy		
COURSE DETAILS	Module No.	Topic	Hours
	1.	Introduction to Insurance: Concept of insurance, Nature and functions of insurance, Risk sharing and risk transfer, Risk pooling. Elements of insurable risk; Principles of insurance, Economic contribution of insurance.	11
	2.	Introduction to Risk: Concept of risk, Risk and uncertainty, Measuring risk, Classification of risk, Subjective perception of risk: Risk aversion and risk utility function, Risk management tools Risk control and risk financing, Risk retention and transfer.	12
	3.	Fields of Insurance: Private/Voluntary insurance: Life insurance, Health insurance, Property, and liability insurance, Social insurance, Social insurance in India, Other insurance, Re-insurance; Rural and micro-insurance.	11
	4.	Insurance Sector in India: Evolution of insurance sector in India, Public and private insurance companies in India; Insurance regulations in India: IRDA-Objectives and working.	11
		Total Hours	45
TEXT BOOK	1. Watt, Richard: The Microeconomics of Risk and Information, Palgrave Macmillan. 2. Vaughan, J. E., and Vaughan, T. M., Fundamentals of Risk and Insurance, Wiley Publications 3. Borch, K. H., Sandmo, A., & Aase, K. K., <i>Economics of insurance</i> . Elsevier.		

Course: GAME THEORY			Semester: V/VI/VII
Course Code: FNE 109 E	L T P	3 0 0	Credits: 3

OBJECTIVE	This course will deal with the solution concepts for normal form and extensive form games, along with a variety of applications. Ideas related to asymmetric information among the interacting agents will also be analysed in this course. The course ends with the application of game theory to analyse moral hazard, adverse selection and signalling problems.		
LEARNING OUTCOME	The students will learn how to model multi-person decision making in an interactive setting. They will understand how to formulate different real life situations as games and learn to predict the optimal strategies of players and how the players can exploit strategic situations for their own benefit.		
COURSE DETAILS	Module No.	Topic	Hours
	1.	Normal form games The normal form; dominant and dominated strategies; dominance solvability; mixed strategies; Nash equilibrium; symmetric single population games; applications	10
	2.	Extensive form games with perfect information The game tree; strategies; subgame perfection; backward induction in finite games; commitment; bargaining; other applications	10
	3.	Simultaneous move games with incomplete information Strategies; Bayesian Nash equilibrium; applications	09
	4.	Extensive form games with imperfect information Strategies; beliefs and sequential equilibrium; applications	08
		Total Hours	45
TEXT BOOK	1. Osborne, M., An introduction to game theory. Oxford University Press.		

Course: International Finance			Semester: V/VI/VII
Course Code: FNE 110 E	L T P	3 0 0	Credits: 3

OBJECTIVE	The objective of the paper is to provide the students an overview of international financial system, foreign exchange market and Forex risk management. The course shall also cover some issues relating to multinational corporate finance.		
LEARNING OUTCOME	<p>To familiarize students with the balance of payment accounting and its linkages with the domestic economy.</p> <p>To familiarize students with international monetary system and foreign exchange market.</p> <p>To introduce students with concepts and methods of exchange rate risk and its management.</p> <p>To develop an understanding of multinational finance and related concepts.</p>		
COURSE DETAILS	Module No.	Topic	Hours
	1.	Evolution of the international monetary system, Exchange rate arrangements, Reform of international monetary system, Balance of payments accounting, Gains from financial globalization.	08
	2.	Functions and structure of foreign exchange market, Exchange rate: essential concepts and determination, Theories of exchange rate, international arbitrage and interest rate parity.	12
	3.	Forecasting exchange rates, Foreign exchange risk: types and measurement, Currency derivatives.	11
	4.	Offshore financing – international equity, debt and Euro-currency markets; Trade Financing – payment methods and trade financing methods; Foreign direct investment, Crossborder mergers and acquisitions. International Financial Markets; WTO & IMF, International Trade Unions.	14
		Total Hours	45
TEXT BOOK	1. Pilbeam, K., International Finance, Palgrave Macmillan. 2. Madura, J., International Financial Management, Cengage Learning.		
REFERENCE BOOK/ SUGGESTED READING	1. Eun, C.S., and Resnic, B.G., International Financial Management, McGraw Hill. 2. Feenstra, R.C., and Taylor, A.M., International Macroeconomics, Worth Publishers.		

AGRICULTURAL ECONOMICS (AGE)

Course: AGRIBUSINESS AND COOPERATIVE MANAGEMENT			Semester: V/VI/VII
Course Code: AGE 111 E	L T P	3 0 0	Credits: 3

OBJECTIVE	The basic objective of the course content is to demonstrate a basic knowledge of the principles of agribusiness and cooperative management to agricultural problems.		
LEARNING OUTCOME	Upon completion of the course students should be able to: <ol style="list-style-type: none"> 1. Have a solid understanding of how markets operate and the effects of extensive government policies on those markets. 2. Be able to read and comprehend general articles in business and economics journals. 3. Understand firm and farm level decision rules for the efficient operation of enterprises and the institutional structure and use of agricultural marketing systems. 4. Be able to analyze changes in market and general economic conditions in a broad array of settings. 5. Be able to determine the impact on various groups affected by those changes. 		
COURSE DETAILS	Module No.	Topic	Hours
	1.	Agricultural business management, forms of business organization, production relationships, cost concept, farm planning	06
	2.	Agricultural marketing, agribusiness and balance sheet analysis, project preparation, role of agro-processing in agribusiness development.	07
	3.	Principles of cooperation, process of cooperative formation, cooperative legislation, governance in agribusiness cooperatives, management of cooperatives, overview of agribusiness cooperatives.	11
	4.	Credit cooperatives, production/processing-based cooperatives, cooperative marketing, dairy cooperatives, tribal cooperatives.	10
	5.	Financing agribusiness cooperatives, business development planning for cooperatives, MIS for agribusiness cooperatives, collective action and leadership in cooperatives, promotion of cooperative movement-education and training	11
	Total Hours		45

TEXT BOOK	1. Armstrong Emmanuel Ogidi. Agribusiness and Cooperative Management Paperback.
REFERENCE BOOK/ SUGGESTED READING	1. Kulandaiswamy.V., Co-operative Dairying in India, rainbow, coimbatore. 2. Roy A.C., Co-operative Farming in India, Ghosh &Co., Calcutta. 3. Deshpande S.H., Some Problems of Co-operative Farming, Himalaya, Bombay. India

Course: AGRI MARKETING			Semester: V/VI/VII
Course Code: AGE 112 E	L T P	3 0 0	Credits: 3

OBJECTIVE	To give the exposure on the concept of market and marketing of agricultural commodities, challenges and prospects for improving agricultural marketing system.		
LEARNING OUTCOME	Upon completion of the course students should be able to: <ol style="list-style-type: none"> 1. Know the kinds of agricultural products and their movement. 2. Understand the types, structure and functioning of agricultural marketing system. 3. Comprehend related skills and apply them in sample situations. 4. Extend this knowledge and skills to their production/consumption environment 		
COURSE DETAILS	Module No.	Topic	Hours
	1.	Introduction of Agriculture and agricultural products - Agricultural Marketing - Role of marketing - Concepts - Goods and services.	06
	2.	Basic structure and facilities of an agricultural market, Functioning of Market Yards–Market information - APMC- Govt-market policies and regulations- Contract farming -Govt Apps for marketing of agri products.	09
	3.	Planning production – assembling – grading - transportation– storage facilities. Price fixation. Dissemination of market information –and role of ICT. Selection of target market. Government programs in support of Agricultural marketing in India.	10
	4.	Market functionaries: From producer to consumer, whole seller, retailer, broker, commission agent, speculators processors, financing institutions need for and importance of intermediaries.	10
	5.	Marketing Channel: marketing channel for different farm products; factors affecting marketing channels. Marketing of various agricultural products in India with special references to: (i) Cereals, (ii) Fruit and vegetables, (iii) Milk and milk products	10
	Total Hours		45
TEXT BOOK	1. S.S. Acharya & N.L. Agarwala, Agricultural Marketing in India - Oxford and IBH Publications		

REFERENCE BOOK/ SUGGESTED READING	<ol style="list-style-type: none">1. K.S.Habeeb - Ur - Rahman Rural Marketing in India - Himalaya publishing2. S.S.Chinna Agricultural Marketing in India - KALYANI publishers3. Publications of National Institute of Agricultural Marketing, Odisha
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Course: AGRI FINANCE, BANKING AND COOPERATIVES			Semester: V/VI/VII
Course Code: AGE 113 E	L T P	3 0 0	Credits: 3

OBJECTIVE	To impart knowledge and expertise in the field of agricultural finance It enables the student to understand the business planning and financial management of an agri-business: become aware of the international models for gauging agricultural debt and the role of the regulator in agricultural financing.		
LEARNING OUTCOME	Upon completion of the course students should be able to: <ol style="list-style-type: none"> 1. Learn sources of Agricultural Micro-Macro financing and credit systems. 2. Understand History of financing agriculture in India 3. Learn about Significance and limitations of Crop insurance. 4. To acquire Knowledge of successful cooperative systems in India and newly launched crop insurance schemes. 5. Estimation of Credit requirement of farm business. 6. Preparation and Analysis of project reports and Financial Statements 7. Analysis and performance of commercial banks, cooperative banks to acquire firsthand knowledge of their management, schemes and procedures 		
COURSE DETAILS	Module No.	Topic	Hours
	1.	Financial policy, Sources of finance, Raising finance-some important issues: effect of legal form of organisation, provisions of the Companies Act, control of capital issues; need for financing agri business in India, assessment of the capacity of the borrowers to borrow and repay.	09
	2.	Financial Markets: Money and capital markets; regional and all India financial institutions: commercial banks, regional rural banks, NABARD, cooperatives'(NCDC and other institutions) Agro- Industries Corporation, IDBI, IFCI, ICICI, SFCs, SIDCs; LIC, Non-banking financial companies.	09
	3.	Agri business financing system in India: Aims and objectives of financing of agri-business, framework of financial decision making, changing role of finance manager, long term finance and short-term financing for agri business- methods of appraising working capital requirements.	09
	4.	Agricultural Cooperation: Meaning, brief history of cooperative development in India, Objectives, principles of cooperation, significance of cooperatives in Indian agriculture. Agricultural Cooperation in India-credit, marketing, consumer and multi-purpose cooperatives, farmers' service cooperative societies, processing cooperatives, farming cooperatives, cooperative	09

		warehousing; role of ICA, NCUI, NCDC, NAFED.	
	5.	Role of external finance for agricultural production, marketing and processing- demand assessment, repayment method, steps for NPA reduction; problems, prospects and challenges in financing of agri business in India.	09
		Total Hours	45
TEXT BOOK	1. Geman, Helyette., Agricultural Finance: From Crops to Land, Water and Infrastructure, Willey 2. Miller, Calvin and Jones, Linda., Agricultural Value Chain Finance-Tools and Lessons, Practical Action Publishing Food and Agricultural Organisation of UNO		
REFERENCE BOOK/ SUGGESTED READING	1. Akmat, J.S. New Dimensions of Cooperative Management, Himalaya, New Delhi 2. Ansari, A.A. Cooperative Management Patterns, Anmol, Delhi. 3. Kamat, G.S. New Dimensions of Cooperative Management, Himalaya, New Delhi. 4. Graham, WJ Obst R. and Christie, G., Financial Management for Agribusiness, Land links Press.		

Course: FARM MANAGEMENT			Semester: V/VI/VII
Course Code: AGE 114 E	L T P	3 0 0	Credits: 3

OBJECTIVE	Students gain knowledge and practical skills related to planning for and managing a diversified farm category.		
LEARNING OUTCOME	Upon completion of the course students should be able to: <ol style="list-style-type: none"> 1. Practice good agriculture management and marketing skills. 2. Define farm management and the terminologies of farm management. 3. Explain farm planning. 4. Describe the responsibilities of a farm manager. 		
COURSE DETAILS	Module No.	Topic	Hours
	1.	Markets: wholesale, retail and CSA. Identification of customers, differences, similarities. Farm Planning – Using Excel to calculate production including market needs, land requirements and seed order.	09
	2.	Organic Certification: Discussion of National Organic Practices and requirements for maintaining organic certification. Seedling Production – Organic greenhouse management including seeding methods and transplant production.	10
	3.	Soil Health, Fertility and Cover Crops: Soil test interpretation, determining best cover crops for production plan. Integrated Pest Management on Organic Farms: Development and implementation of a pest management plan.	10
	4.	Food Safety: Development and implementation of a Food Safety Plan – GAP Certification and Standard Operating Procedures used on the farm.	10
	5.	Small Farm Equipment: Overview of equipment used by the Student Farm. Equipment safety training, use and maintenance.	06
		Total Hours	45
TEXT BOOK	1- Doll, John P. and Orazem. F., Production Economics: Theory with Application, John Wiley and Sons, New York.		

REFERENCE BOOK/ SUGGESTED READING	<ol style="list-style-type: none">1. Sankhayan, P.L., Introduction to the Economics of Agricultural Production, Prentice Hall of India Private Limited, New Delhi-110 001.2. Raju, V.T. and Rao, D.V.S., Economics of Farm Production and Management, Oxford & IBH Publishing Co. Pvt. Ltd., New Delhi-110 001.3. Dhondyal, S.P., Farm Management, Friends Publication Meerut (India).4. Kahlon, A.S. and Karam Singh, Economics of Farm Management, Allied Publishers, New Delhi.5. Johl, S.S. and Kapoor, T.R., Fundamentals of Farm Business Management, Kalyani Publishers, Ludhiana.6. Dhondyal, S.P., Farm Management, Friends Publication Meerut (India).
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Course: AGRI POLICY AND PLANNING			Semester: V/VI/VII
Course Code: AGE 115 E	L T P	3 0 0	Credits: 3

OBJECTIVE	To gain understanding of the theoretical frameworks used to analyze agricultural planning and policy. To investigate workable policy tools and initiatives to promote the use of agricultural technology and the growth of the agricultural industry		
LEARNING OUTCOME	Upon completion of the course students should be able to: <ol style="list-style-type: none"> 1. Learn about the transformation of agriculture into agribusiness for raising Indian economy and new agricultural policy. 2. Discuss the importance and needs of agro-based industries for development. 3. Understand management functions, their roles and activities, organization culture. 4. Examine the components in a business plan and list the steps in implementation. 5. Question the marketing aspects like trade, policy, consumers, financial statements and 		
COURSE DETAILS	Module No.	Topic	Hours
	1.	Theories of Agricultural Development: (12 Hours) Role of agriculture in a developing economy vis-a-vis a development economy; Theories of agricultural development (Lewis, Schultz, Mellor, Hayami and Ruttan).	09
	2.	Impact of green revolution; Models of spread of technology and experiences in input use efficiency.	06
	3.	Measurement and strategies for sustainable development; Food security, Concept, measurement, magnitude, and critical evaluation of government policies.	06
	4.	Measurement of efficiency of agricultural products in international markets; Efficiency of agricultural markets in India; Form and impact of government intervention in the markets and its effects on efficiency; Commodity markets: operation and likely impacts; Strategies for surviving in a globalizing world.	12
	5.	History and Policies for Agricultural Development in India: Trends in production since 1950; National Food Policy; Agriculture Policy; Area, productivity, Employment and wage rate analysis; Trends in India's agricultural exports and imports and implications.	12
		Total Hours	45

TEXT BOOK	<ol style="list-style-type: none"> 1. Basu Karnhik, Analytical Development Economics, Oxford University Press. 2. Mellor and Muddahar M, in Agriculture in Economic Development: Theories, findings and Challenges in Asian context in A Survey of Agricultural Economics Literature, Edited by Lee Martin. University of Minnesota Press.
REFERENCE BOOK/ SUGGESTED READING	<ol style="list-style-type: none"> 1. Bhalla G S., Globalization and. Indian Agriculture, Volume 19 of the State of the Indian Farmer 2. Lewis Arthur, Economic Development with Unlimited supply of labour, Manchester School of Economics and Social Studies 22: 139-91, 1954. 3. Norton George and Jeffery AlWang, Introduction to Economics of Agricultural Development, McGraw Hills, New York, 1993. 4. Sawant SD, Indian Agriculture: Past Developments and Policies for the Future Dantwala Monograph.