

ಶ್ರೀ ಅಲೋಷಿಯಸ್ ಕಾಲೇಜು (ಸ್ವಾಯತ್ತ)
ಮಂಗಳೂರು - 575 003, ಕರ್ನಾಟಕ
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Re-accredited by NAAC with 'A++' Grade with CGPA 3.67/4 (Cycle 4)
Recognised as Centre for Research Capacity Building under UGC-STRIDE Scheme
Recognised under DBT - BUILDER Scheme, Government of India
College with 'STAR STATUS' Conferred by DBT, Government of India
Recognised by UGC as 'College with Potential for Excellence'

Date: 21-12-2022

NOTIFICATION

Sub: Syllabus of **B.A. ECONOMICS** under NEP Regulations, 2020.
(As per Mangalore University guidelines)

- Ref: 1. Decision of the Academic Council meeting held on 18-12-2021 vide
Agenda No: 6
2. Decision of the Academic Council meeting held on 09-07-2022 vide
Agenda No: 14
3. Decision of the Academic Council meeting held on 25-02-2023 vide
Agenda No. 12
4. Decision of the Academic Council meeting held on 02-09-2024 vide
Agenda No. 3
5. Office Notification dated 21-02-2022
6. Office Notification dated 17-08-2022
7. Office Notification dated 30-03-2023
8. Office Notification dated 26-09-2023

Pursuant to the above, the Syllabus of **B.A. ECONOMICS** under NEP Regulations, 2020 which was approved by the Academic Council at its meeting held on 18-12-2021, 09-07-2021, 25-02-2023 & 02-09-2023 is hereby notified for implementation with effect from the academic year 2021-22.


PRINCIPAL




REGISTRAR

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1. The Chairman/Dean/HOD. ✓
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3. Library



**St Aloysius (Autonomous)
Mangaluru**

**Re-accredited by NAAC “A” Grade
Course structure and syllabus of
B.A.
ECONOMICS**

**Under NEP Regulations, 2021-22 Batch
onwards**

Sl. No	Category	Name/Address
a)	Chairperson	Dr Manohar V. Serrao
b)	Members of the Department	<ol style="list-style-type: none"> 1. Dr P P. Sajimon 2. Mrs Kavitha B. 3. Ms Vinola Sandra Sequiera 4. Dr Florin S. Soans 5. Mr Alwyn Stephen Misquith 6. Mr Reji P. John 7. Mr Olwyn D'Souza 8. Mr Aviansh B. Kulal 9. Ms Carol D'Souza
c)	Academic Advisors	<ol style="list-style-type: none"> 1. Prof. Jayavantha Nayak, HOD, Department of Economics, University College Hampanakatta, Mangaluru 575001. 2. Mr Callon D'Souza, Proprietor and Managing Director, Flora Tours and Travels, Bendoorwell, Mangaluru - 575002

PREAMBLE

Education is the key to empower mankind. A holistic approach to educate people enables development of new knowledge, creates employable skill sets, right attitude and overall personality development. Educated citizens are the wealth of a nation. National Education Policy 2020 paves the way to make an attempt in this direction. Economics is a discipline which though speaks about household management, gives a greater horizon. It deals with the everyday aspects influencing consumption, production, exchange, distribution, trade and so on. Study of Economics is not only helpful to increase the standard of living of the individual and their households and also in the policy decisions for the economic development. This syllabus in tune with the goals of NEP adheres to the current needs of the students in the discipline of Economics. Overall, the objective of Economics is to improve well-being of nation and thereby developing Indian Economy, since it serves as a centre for developing ideas and innovations. It seeks to create students with the capacity of analytical thinking, model building, team work, collaboration, problem solving. It is hoped that a student after a rigorous training in the BA/B.Sc. Economics degree will have host of employment opportunities and will be an asset to the nation.

PROGRAMME OUTCOMES

PO 1: Facilitate the understanding of basic economic theories.

PO 2: A comprehensive understanding of the various courses in the discipline.

PO 3: Enable to apply quantitative techniques suitable for the discipline.

PO 4: Analyse the policies of the government in solving economic problems.

PO 5: Develop skills required to blend the subject learned and the real life situations.

PO 6: Able to evaluate the working of the economy, its interconnection with the social, political, cultural, environmental, ethical issues in a comprehensive manner.

PROGRAMME SPECIFIC OUTCOMES

- PSO 1: Enable the students with the knowledge of Economics both theoretical and applied.
- PSO 2: Develop a comprehensive understanding of the various aspects of the branches of Economics related to micro and macro aspects.
- PSO 3: Understand the working of the domestic and foreign economy.
- PSO 4: Enable the students to apply the theoretical knowledge of Economics in applying to the real life situations.
- PSO 5: Analyse the issues related to various problems like unemployment, balance of payments, poverty, inequality, inflation facing the economy.
- PSO 6: Develop skills to integrate and organise the inter linkages between and among the varied divisions of the economy.
- PSO 7: Have a critical assessment of the working of the economy, the interconnections between the various sectors and the policies linked to the development.

B. A ECONOMICS

STRUCTURE UNDER NEP

Course Code	Title of course	Category of course	Teaching hours per week	SEE	CIE	Total Marks	Credits
SEMESTER I							
G 102 DC1.1	Basic Economics -I	DSC	3+0+0	60	40	100	3
G 102 DC2.1	Contemporary Indian Economy	DSC	3+0+0	60	40	100	3
G 102 OE1.1	1. Kautilya's Arthashastra 2. Pre-reforms Indian Economy 3. Developmental Economics 4. Business Economics	OEC	3+0+0	60	40	100	3
SEMESTER II							
G 102 DC1.2	Basic Economics -II	DSC	3+0+0	60	40	100	3
G 102 DC2.2	Karnataka Economy	DSC	3+0+0	60	40	100	3
G 102 OE1.2	1. Contemporary Indian Economy 2. Sustainable Development 3. Economics of Business Environment 4. Monetary Economics	OEC	3+0+0	60	40	100	3
SEMESTER III							
G 102 DC1.3	Micro Economics	DSC	3+0+0	60	40	100	3
G 102 DC2.3	Statistics For Economics	DSC	3+0+0	60	40	100	3
G 102 OE1.3	1. Economics of Insurance 2. Rural Economics 3. Economics of human development 4. International Economics 5. Digital Economics 6. Urban planning and development	OEC	3+0+0	60	40	100	3
SEMESTER IV							
G 102 DC1.4	Macro Economics	DSC	3+0+0	60	40	100	3
G 102 DC2.4	Mathematics for Economics	DSC	3+0+0	60	40	100	3

G 102 OE1.4	1. Karnataka Economy 2. Entrepreneurial Economics 3. Economics and law 4. Public Economics 5. Population studies	OEC	3+0+0	60	40	100	3
SEMESTER V							
G 102 DC1.5	Public Economics	DSC	4+0+0	60	40	100	4
G 102 DC2.5	Development Economics	DSC	4+0+0	60	40	100	4
G 102 DC3.5	Financial Economics	DSC	4+0+0	60	40	100	4
G 102 DC4.5 OE	1. Population studies 2. Corporate Economics 3. Economics of Human resource Management	OEC	4+0+0	60	40	100	4
SEMESTER VI							
G 102 DC1.6	4. International Economics	DSC	4+0+0	60	40	100	4
G 102 DC2.6	5. Economic Thought of DR B. R. Ambedkar	DSC	4+0+0	60	40	100	4
G 102 DC3.6	6. Environmental Economics	DSC	4+0+0	60	40	100	4
G 102 DC 4.6	Internship	OEC				50	2

TEACHING METHODOLOGY:

- ❖ Emphasis to be given to teaching concepts.
- ❖ Theories and laws to be taught with the help of tables and diagrams or with mathematical expressions
- ❖ Discussions and workshops
- ❖ Oral presentations and Guest talks
- ❖ Assignments, seminars and project work
- ❖ Review Quizzes

PATTERN OF EXAMINATION

Pattern of **40:60** for CIA (Continuous internal assessment) and Semester End examinations

PATTERN OF EVALUATION	
Continuous Internal Evaluation (CIE)	Marks
Continuous & Comprehensive Evaluation (CCE)	20
Internal Assessment Tests (IAT)	20
Total of CIE (A+B)	40
Semester End Examination (SEE)	60
Total of CIE and SEE (A+B+C)	100

Outline for continuous assessment activities for C1 and C2			
Activities	C1	C2	Total Marks
Session Test	10 marks	10 marks	20
Case study / Assignment / Field work / Project work/ Academic Quiz/ Review of the Book/ etc.	10 marks	---	10
Case study / Assignment / Field work / Project work/ Academic Quiz/ Review of the Book/ etc	---	10 marks	10
Total	20 marks	20 marks	40

END – SEMESTER -QUESTION PAPER PATTERN

(From 2024 – 2025 onwards)

PART A: ANSWER ANY FIVE OF THE FOLLOWING: 5 X 2= 10

(Out of EIGHT ANY FIVE with at least one question from each module)

PART B: ANSWER ANY SIX OF THE FOLLOWING: 6X5=30

(Out of NINE ANY SIX with at least one question from each module)

PART B: ANSWER ANY TWO OF THE FOLLOWING: 2X10=20

(Out of FOUR ANY TWO with not more than one question from each module)

TOTAL = 60marks/ 2.30 hours duration

INTERNAL -QUESTION PAPER PATTERN

(From 2021 - 2022 onwards)

PART A: ANSWER ANY FIVE OF THE FOLLOWING: 5 X 2= 10

(Out of SEVEN ANY FIVE with at least one question from each module)

PART B: ANSWER ANY FOUR OF THE FOLLOWING: 4X5=20

(Out of SIX ANY FOUR with at least one question from each module)

PART B: ANSWER ANY TWO OF THE FOLLOWING: 2X10=20

(Out of FOUR ANY TWO with not more than one question from each module)

TOTAL = 50 marks/ 1.30 hours duration

SEMESTER I

TITLE OF THE COURSE: G 102 DC 1.1: BASIC ECONOMICS - I

3 hours per week: Total hours: 42

COURSE OBJECTIVES:

- To help students to acquire knowledge of some of the basic concepts, principles and theories of Micro Economics.

- To provide the foundation for the study of other branches of Economics.
- To develop analytical, reasoning and graphical presentation of skills.
- To enable the students to appreciate the utility of economics in day – today life.
- To enable students to understand different types of market structures and their working.
- To help students to understand the concept of distribution.

COURSE OUTCOME:

- Identify the facets of an economic problem.
- Learn basic economic concepts and terms.
- Explain the operation of a market system.
- Analyze the production and cost relationship of a business firm.
- Evaluate the market decisions under different structure.
- Use basic cost benefit calculations as a means of decision making.

MODULE I: BASIC CONCEPTS IN ECONOMICS: -14 Hours

Chapter 1: Nature and Scope of Economics: Meaning, definitions, nature, scope, methods of economics – Why study economics - Basic problems of economy.

Chapter 2: Thinking like Economist: Thinking like an economist, the economist as scientist, the economist as policy adviser, Economic policy.

Chapter 3: Economic Systems: Types of economic activities- organization of economic activities- Circular flow of economic activities. Evaluation of the present economic system. Consumption- meaning, types-Utility-meaning, forms - Law of diminishing marginal utility- Law of equi marginal utility - Consumer's surplus- practical significance.

MODULE II: DEMAND AND SUPPLY - 14Hours

Chapter 4: Firms and Household: Meaning of firms and household, relationship between firms and household, input market, output market.

Chapter 5: Demand and supply: Demand function, determinants of demand, individual and market demand, Statement of the law of demand - Causes for its operation – Exceptions, change in demand and quantity demanded.

Chapter 6: Elasticity and its Measurement: Elasticity of demand - Meaning-types, degree of Price Elasticity of Demand – determinants of Price Elasticity of Demand - Methods of Measurement - Total Outlay, Proportionate, Point and Arc. Supply- meaning, supply function, supply and stock, Determinants of supply - Law of Supply, Exceptions.

MODULE III: COST AND MARKET STRUCTURES -14 Hours

Chapter 7: Production and Cost: Production function - short run and long run- Total, marginal and average production cost, Law of Variable Proportions – Law of returns to scale -Economies and Diseconomies of Scale.

Chapter 8: Accounting and Economic Costs: Cost concepts- types of cost-fixed, variable & marginal cost, Long-run AC & MC, cost schedule, Cost Output Relationship- Short Run & Long Run. Revenue function, Revenue-concepts-TR, AR & MR, Revenue Curves Under Perfect & Imperfect Market.

Chapter 9: Market Structure: Perfect Competition - Features, Price- Output determination of Firm and Industry in the short – run and long- run. Monopoly - Features, classification of monopoly, Price - Output Determination under Monopoly – Price Discrimination: Types, degrees and Conditions, Price - Output Determination. Monopolistic Competition – Features, Price - Output Determination. Oligopoly – Features, Price - Output Determination – Kinked Demand curve.

REFERENCES:

1. Ahuja H.L.(2009) Principles of Micro Economics, 17th Ed, New Delhi, S Chand and Co. Ltd.
2. Ahuja H.L.(2014) *Advanced Economic Theory : Micro Economic Analysis*. 21th Ed. New Delhi: S Chand and Co. Ltd.
3. Case, K. E and Oster. S (2017) Principles of Economics, New Delhi, Pearson Education Pvt. Ltd.
4. Chauhan(2009) Macro economics part II, New Delhi, PHI learning Pvt. Ltd.
5. Dewett, KK (2012) *Modern Economic Theory* New Delhi, Suthan Chand & Company.
6. Jhinghan, M.L (2004): *Advanced Economic Theory: Micro and Macro Economics*. 12thEd.. New Delhi: Vrinda Publications (P) Ltd.

7. Jhingan, M.L (2016) *Advanced Economic Theory: Micro and Macro Economics*, 16th Ed., New Delhi, Vrinda Publications (P) Ltd.
8. Koutsoyiannis A (2016) *Modern Micro Economics*, 2nd edition, London, Macmillan Press Ltd.
9. Lipsey R G and K A Crystal (2011) *Principles of Economics*, 12th edition, New Delhi OUP.
10. Pyndyck, R.S., and D.L. Rubinfeld (2012) *Microeconomics*, New Delhi, Pearson Education Singapore Pvt. Ltd.
11. Salvatore Dominick (2009) , *Micro Economics- Theory and Applications*, Oxford University Press.
12. Samuelson PA and Nordhaus WD (2009): *Economics* 19th Ed. , Tata Ma.Graw Hill Publishing Company ltd, New Delhi
13. Seth ML (1996): *Principles of Economics* 13th Ed, Agra, Lakshmi Narain Agarwal Education Publishers.
14. Varian, H.R., *Intermediate Microeconomics: A Modern Approach*, New Delhi, Affiliated East-West Press.

SEMESTER I

TITLE OF THE COURSE: G 102 DC 2.1: CONTEMPORARY INDIAN ECONOMY

3 hours per week: Total: 42 hours

COURSE OBJECTIVES:

- To enable students to have an understanding of the important issues and problems of the Indian Economy.
- To make the students understand the role of various economic policies in promoting the development of Indian Economy.

- To enable students to learn critically, discuss and debate current economic issues on the basis of latest policy documents and trends.

COURSE OUTCOME:

- Students will be informative about the nature of Indian Economy.
- Students will be able to understand the current problems of Indian economy.
- Students will be able evaluate the impact of LPG policies on economic growth in India.
- Students will be able to review various the sector specific policies adopted for achieving the aspirational goals.

COURSE CONTENTS

MODULE I: NATURE OF INDIAN ECONOMY, POPULATION AND AGRICULTURE

-14 Hours

Chapter 1: Recent issues: Genesis and impact of LPG, Demographic dividend, India's human development in global perspective. Basic features of Indian economy -GDP of India – Trends, composition and sectoral changes in Indian economy - Demographic profile - Causes for and Effects of Population Growth – India's population policy, Present family welfare programmes. Occupational structure of India.

Chapter 2: Urbanisation and Governance:Urbanisation and smart city mission, informal sector, impact of COVID 19 pandemic, AtmaNirbhara Bharat Abhiyan.

Chapter 3: Economic reforms and Agriculture: Nature of Indian Agriculture; Trends in Agricultural Productivity ; Agriculture and WTO, Land Reforms; Agricultural Credit; Micro Finance; Kisan Credit Card, commercialisation and diversification, Agricultural marketing; Agricultural price policy and subsidies, Impact of public expenditure on agricultural growth, Agrarian crisis, Doubling farm income, MGNREGA, Impact of Globalisation on Indian Agriculture - Concept of sustainable agricultural development - Food security and Public Distribution System

MODULE II: INDUSTRY, BUSINESS AND FISCAL POLICY

-14 Hours

Chapter 4: Industrial policy: New industrial policy and changes -Industrial Sector Reforms Since 1991 – Objectives, Features. Major reforms:- Public sector reforms - Disinvestment, Privatisation, Delicensing, Competition policy, Foreign Direct Investment , Foreign Capital - Industrial Finance. Industrial Sickness: meaning, causes - SEZ's Concept and Role. Role of MNC'S in industrial development.

Chapter 5: Business: Ease of doing business, performance of MSMEs - Role, Problems and Government Measures for their Growth; Sources of Industrial Finance. Mudra Yojana, Startup India, Skill India, make in India, development of economic and social infrastructure, national monetarisation pipeline,

Chapter 6: Fiscal policy: Tax, expenditure, budgetary deficits, pension and fiscal reforms, public debt management and reforms, fiscal responsibility and budget management (FRBM) Act, GST, Fiscal federalism and Fiscal consolidation, Recommendation of the current finance commission.

MODULE III: MONETARY POLICY, FOREIGN TRADE AND INVESTMENT

- **14 Hours**

Chapter 7: Monetary Policy: Organisation of Indian money market, financial sector reforms, interest rate policy, review of monetary policy of RBI.

Chapter 8: Money and Capital Markets: Working of SEBI in India, changing role of RBI, commercial banks, development finance institutions, foreign banks and non-banking financial institutions, Analysis of price behaviour in India, Anti- inflationary measures, demonetisation and its impact.

Chapter 9: Foreign Trade and Investment: India's foreign trade, India's balance of payments since 1991, New exchange rate regime: partial and full convertibility, capital account convertibility, FDI- trends and patterns, New EXIM policy, WTO and India, Bilateral and multilateral trade agreements and associations.

REFERENCES:

1. Agrawal A.N and Agarwal MK(2017) Indian Economy, Problem and Development and Planning, 42nd Ed, London, New Age International Pvt Ltd Publishers.
2. Bhole, L.M. and JintendraMahakud(2009)*Financial Institutions and Markets: Structure, Growth and Innovations* , 5th Ed, New Delhi, Tata McGraw Hill.
3. Cauvery R, Kruparani N, Nayak UK Sudha, Manimekalaica(2013), Monetary economics, New Delhi, S Chand and Co Pvt Ltd.
4. Dhingra, I.C(2012),*The Indian Economy: Environment and Policy*, 27th Ed, New Delhi, Sultan Chand & Sons.

5. E Gardon & K Natarajan (2010) *Banking Theory, Law and Practice*, 22nd Ed, New Delhi, Himalaya Publishing House.
6. Economic and Political Weekly, Various Issues.
7. *Government of India: Economic Survey* (Annual) New Delhi, Ministry of Finance,
8. Gurusamy, S(2009) *Financial Markets and Institutions* 3rd Ed, Chennai, McGraw Hill.
9. I.J. Ahluwalia and I.M.D. Little(1999), *India's Economic Reforms and Development*, New Delhi, OUP,
10. Jalan , Bimal,(2004), *The Indian Economy : Problems and Prospects*, New Delhi, Penguin
11. Jhingan, M.L(2009) *Money, Banking, International Trade and Public Finance* 9th Ed, Delhi, Vrinda Publications.
12. Jhingan, M.L(2014), *Monetary economics*, 7th Ed, New Delhi, Vrinda Publications Pvt Ltd.
13. Lekhi, R.K and Joginder Singh (2015), *Agricultural Economics*, Ludhiana, Kalyani Publishers.
14. Mahajan, Ashwani and GauravDutt(2013), *Indian Economy*, New Delhi, 68th Ed. S. Chand & Company Ltd.
15. Mahajan, Ashwani and GauravDutt, (2016), *Indian Economy*, New Delhi, 72nd Ed. New Delhi, S Chand & Company Ltd,
16. Misra, S.K. and V.K. Puri (2012), *Indian Economy 30th Ed.*, New Delhi, Himalaya Publishing House.
17. Misra, S.K. and V.K. Puri , (2016), *Indian Economy 34th Ed.*, Mumbai, Himalaya Publishing House,
18. R.B.I.: RBI Bulletins
19. SinhaYashwant, SrivastavVinayk(2017), *Future of Indian Economy*, New Delhi, Rupa and Co.
20. Web-sites of Various Govt Departments and Institutions. Avadhani, V.A(2011) *Financial Services in India*, New Delhi, Himalaya Publishing House.

OEC: SEMESTER I

TITLE OF THE PAPER:G 102 OE 1.1: DEVELOPMENT STUDIES

3 hours per week: Total: 42 hours

COURSE OBJECTIVES:

- To learn the basic concepts of growth and development.
- To know how the development process is made possible.
- To convey knowledge about theoretical framework of growth and development under different Schools of economic thought.

- This course exposes students to some of the key ideas and concepts in the areas of economic growth, human development and globalisation.

COURSE OUTCOMES

- Students will develop a critical understanding of the contemporary issues in Indian economic development.
- Students will thus be better prepared to face the professional world and can use this knowledge base in a variety of jobs, including in the corporate,

MODULE I: DEVELOPMENT: MEANING AND CURRENT CHALLENGES

-14 Hours

Chapter 1: Meaning of Growth: The concept of Growth-Distinction between Economic Growth and Economic Development Transition from quantitative to qualitative indices

Chapter 2: Modern economic growth: • Characteristics of modern economic growth: Scope of Modern Economic Growth -Modern Version of Economic Development-- Common characteristics and dissimilarities among developing countries

Chapter 3: Current Development Challenges- Poverty-Inequality- Migration- Conflict

MODULE II: APPROACHES TO DEVELOPMENT

-14 Hours

Chapter 4: Development and Ethics-Concept and meaning-Principles and importance of Development Ethics

Chapter 5: - Measurement of Economic Development-PQLI-Gender Development Index-Multidimensional Poverty Index-HDI-Mathematical calculations related to Indexes

Chapter 6: Theories of Development:- Adam Smith -Solow's Model of long-run growth, -Nurkse Theory of Disguised Unemployment -Shumpter -Leibenstein's Critical Minimum Effort Thesis; Feldman Model of Growth- Economic Growth and Income Distribution.

MODULE III: THEORIES AND CURRENT ISSUES IN DEVELOPMENT

-14Hours

Chapter 7: Theories of Development: Theorizing Development -Modernization Theory, Dependency Theory- Capitalist World System- The evolution of thought on poverty reduction-Colonial Regimes and Their Legacies

Chapter 8: The Industrial Revolution: Genesis and Spread-International specialization of Labour/Industry- Industrial Labour ILO and its activities to promote labour standards

Chapter 9: Sustainable development; Increasing degradation of natural environment – water and air pollution and deforestation-Depletion of global commons-Sustainable development –concept and measures- SDGs- Climate Change – Causes, Impact, Measures of Mitigation and Adaptations

REFERENCES:

1. Agrawal, R.C(2015) Economics of Development and Planning, Agra, Lakshmi NarainAgrawal Publishers.
2. Ahuja H. L (2016) Development Economic: A critical study of economic growth, development and environment, New Delhi, S. Chand Publications.
3. Baldwin R E, *Economic Development: Theory, History, Policy*, Asia Publishing House
4. Debaraj Ray (2009) Development Economics, New Delhi, Oxford University Press.
5. DebrajRay(1998)Development Economics, New Jersey, Princeton University Press.
6. JhinganM.L.(2011)*Economics of Development and Planning*, 40th Ed, New Delhi, Vrinda Publications
7. Lekhi, R.K and JoginderSingh(2014)Economics of Development and Planning, Ludhiana, Kalyani Publishers.
8. Lekhi, R.K and JoginderSingh(2015) Agricultural Economics, Ludhiana, Kalyani Publishers.
9. Meir, G.M(2000)*Leading Issues in Economic Development*7th Ed, New Delhi, Oxford University Press.
10. Meir, G.M. & Baldwin R.E(1970) *Economic Development, Bombay, Asia Publishing House*,
11. Misra, S.K. and V.K. Puri (2016) Economics of Development *and Planning*, 16th Ed., New Delhi, Himalaya Publishing House.
12. Misra, S.K. and V.K. Puri(2012)Economics of *Development and Planning*, New Delhi, Himalaya Publishing House.
13. ShankaranS(2004)*Environmental Economics*, 3rd Ed, Madras, Margham Publications,
14. Todaro M.P(1985)*Economic Development in the Third World*, New York,Longman
15. Todaro M.P, and Stepan C Smith (2006) *Economic Development*, New York, Addison – Wesley Series in Economics.
16. Recent Human Development Reports
- 17 SubrataGhatak (2003), Introduction to Development Economics, Routledge
- 18 Daron Acemoglu and James Robinson, (1994), Economic Origins of Dictatorship and

Democracy, Cambridge University Press

OEC: SEMESTER I

TITLE OF THE PAPER: G102 OE 1.1: BASIC ECONOMICS

3 hours per week: Total: 42 hours

COURSE OBJECTIVES:

- To help students to acquire knowledge of some of the basic concepts, principles and theories of Micro Economics.
- To understand the consumer behavior in different market situations.
- To provide the foundation for the study of other branches of economics.

COURSE OUTCOME:

- Explain how consumers make rational choices using the concept of utility.
- To understand the concept of consumer surplus.
- Analyse the factors that affect market demand and market supply and illustrate their interaction for achieving equilibrium in price and quantity.
- Analyse how producer applies the marginal decision rule to maximize the profit in producing goods or services.

MODULE I: NATURE AND SCOPE OF BUSINESS ECONOMICS: 14 Hours

Chapter 1: Economics- Meaning, Definitions, nature of Economics, Human wants – meaning, features –types of human wants.

Chapter 2:Utility and Consumer Surplus: Utility –meaning –creation of utility –cardinal and ordinal utility –marginal and total utility –law of diminishing marginal utility – meaning –explanation –importance –exceptions to the law – –the concept of consumer surplus.

Chapter 3: Indifference Curve – meaning, definition, -indifference map-Properties.

MODULE II:THEORY OF DEMAND AND DEMAND FORECASTING: 14 Hours

Chapter 4: Demand: Meaning of demand, Demand determinants, Law of demand, forces behind the demand curve - Exceptions to the law of demand.

Chapter 5:Elasticity of Demand: meaning, kinds, degrees of price elasticity of demand, income elasticity of demand and cross elasticity of demand.

Chapter 6:Demand Forecasting: Meaning, Methods of demand forecasting. Mathematical problems related to demand forecasting; Profit planning –importance of profit planning.

MODULE III:PRODUCTION AND SUPPLY ANALYSIS: 14 Hours

Chapter 7:Production Analysis: –Production and production function-meaning –factors –features –production possibility curve-mathematical problems -shifts in production possibility curve–isoquant –properties

Chapter 8:Supply Analysis: Supply meaning –determinants of supply –law of supply – elasticity of supply.

Chapter 9:Market Equilibrium: Concepts of Equilibrium - Stable and Unstable, Static and Dynamic, Partial and General Meaning of market, Forces determining the market price, market equilibrium-problems.

REFERENCES:

1. Ahuja H.L, (2014) *Advanced Economic Theory*, 20th Edition, New Delhi, S Chand and Company Ltd
2. Chauhan (2009) *Macro Economics part II*, New Delhi, and PHI learning Pvt. Ltd.
3. Dewett.K.K (2015) *Modern Economic Theory*, 23rd Edition, New Delhi, Shyam Lal Charitable Trust.
4. Jhingan .M.L (2016) *Advanced Economic Theory*, 14th Edition, New Delhi.Vrinda Publication Ltd.
5. Koutsoyiannis (2016), *Modern Micro Economics*, 2nd Edition New Delhi.MacMillan Press Limited.
6. Mithani M, (2016) *Managerial Economics: Theory and Applications*, New Delhi, Himalaya, publishing House.
7. Pyndyck, R.S., and D.L. Rubinfeld (2012) *Microeconomics*, New Delhi, Pearson Education Singapore Pvt. Ltd.
8. Salvatore Dominick (2009), *Micro Economics- Theory and Applications*, Oxford University Press.

OEC: SEMESTER I

TITLE OF THE COURSE: G 102 OE 1.1: PRE-REFORMS INDIAN ECONOMY

3 hours per week: Total: 42 hours

COURSE OBJECTIVES:

- To enable students to have an understanding of the important issues and problems of the Indian Economy prior to reforms period.
- To make the students understand the role of various economic policies in promoting the development of Indian Economy.
- To enable students to learn critically, discuss and debate on the policies during pre reform period.

COURSE OUTCOME:

- Trace the evolution of Indian economy
- Students will be able to understand structural features of Pre reform Indian economy
- Students will be able evaluate the planning model and policies on economic growth in India.
- Students will be able to analyse various sector specific policies adopted for achieving the aspirational goals.

COURSE CONTENTS

MODULE I: FEATURES AND PROBLEMS OF INDIAN ECONOMY 14 Hours

Chapter 1: Features of Indian economy: India as a developing economy, Demographic features, Human Development Index, Problems of unemployment, poverty, income inequality and inflation.

Chapter 2: Issues in Agricultural Sector in India: Land reforms, Agricultural problems : productivity, marketing, Green revolution, Agricultural price policy

Chapter 3: Industry and Service Sector: Industrial development, Micro, small and medium enterprises, Industrial policy, Public sector: Role and performance, Service sector in India

MODULE II: ECONOMIC POLICIES -14 Hours

Chapter 4: Planning: Mixed economy, Bombay Plan, Gandhian model, Nehru-Mahalanobis plan, Objectives and achievements of plans in India.

Chapter 5: Monetary Policy in India: Objectives of monetary policy, Effectiveness of monetary policy in stabilizing economy, Black money in India: magnitude and impact.

Chapter 6: Fiscal policy: Tax revenue, public expenditure, budgetary deficits, fiscal reforms, public debt management and reforms, Centre-state financial relations, Recommendation of the finance commissions.

MODULE III: EXTERNAL SECTOR - 14 Hours

Chapter 7: India's Foreign Trade: Salient features, Value, composition and direction of trade, India's balance of payments, Self-reliance through import substitution, protection and export promotion, Tariff policy, Exchange rate.

Chapter 8: Post 1991 Strategies: Stabilisation and structural adjustments: Seeds of Liberalisation, privatization and Globalisation, Impacts of these policies.

Chapter 9: NITI Ayog: Organisation and functions of NITI Ayog, Comparison of earlier planning commissions and NITI Ayog.

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1. Agrawal A.N and Agarwal MK(2017) Indian Economy, Problem and Development and Planning, 42nd Ed, London, New Age International Pvt Ltd Publishers.
2. Avadhani, V.A(2011)Financial Services in India, New Delhi, Himalaya Publishing House.
3. Bhole, L.M. and JintendraMahakud(2009)Financial Institutions and Markets: Structure, Growth and Innovations , 5th Ed, New Delhi, Tata McGraw Hill.
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5. Dhingra, I.C(2012),The Indian Economy: Environment and Policy, 27th Ed, New Delhi, Sultan Chand & Sons.
6. E Gardon& K Natarajan (2010)Banking Theory, Law and Practice, 22nd Ed, New Delhi, Himalaya Publishing House.
7. Economic and Political Weekly, Various Issues.
8. Government of India: Economic Survey (Annual) New Delhi, Ministry of Finance,
9. Gurusamy, S(2009)Financial Markets and Institutions 3rd Ed, Chennai, McGraw Hill.
10. I.J. Ahluwalia and I.M.D. Little(1999), India's Economic Reforms and Development, New Delhi, OUP,
11. Jalan , Bimal,(2004),The Indian Economy : Problems and Prospects, New Delhi, Penguinm
12. Jhingan, M.L(2014), Monetary economics, 7th Ed, New Delhi, Vrinda Publications Pvt Ltd.
13. Jhingan, M.L(2019) Money, Banking, International Trade and Public Finance 9th Ed, Delhi, Vrinda Publications.
14. Lekhi, R.K and Joginder Singh (2015), Agricultural Economics, Ludhiana, Kalyani Publishers.
15. Mahajan, Ashwani and GauravDutt (2013), Indian Economy, New Delhi, 68th Ed. S. Chand & Company Ltd.
16. Mahajan, Ashwani and GauravDutt, (2016), Indian Economy, New Delhi, 72nd Ed. New Delhi, S Chand & Company Ltd,

17. Misra, S.K. and V.K. Puri , (2016), Indian Economy 34th Ed., Mumbai, Himalaya Publishing House,
18. R.B.I.: RBI Bulletins
19. SinhaYashwant, SrivastavVinayk (2017), Future of Indian Economy, New Delhi, Rupa and Co.
20. Web-sites of Various Govt Departments and Institutions.

OEC: SEMESTER I

TITLE OF THE COURSE: G 102 OE 1.1: BUSINESS ECONOMICS

3 hours per week: Total hours: 42

COURSE OBJECTIVES:

- To enable the students to gain knowledge about the various tools, techniques and concepts of business economics.
- To understand the process of decision making by the consumers and producers.

COURSE OUTCOME:

- Acquired the concepts, tools and techniques of economics in analyzing and interpreting the business decisions.
- Developed the insight of the functioning of the economy

MODULE 1: INTRODUCTION TO BUSINESS ECONOMICS 14 Hours

Chapter 1: Nature and scope of business economics: Nature of Business Economics- Meaning and definitions- Subject matter of business economics-Significance of business economics-Methods –Deductive and Inductive.

Chapter 2:Economic laws and business environment: Nature of economic laws-Factors determining business-Business objectives-Role and responsibilities of a Business Economist.

Chapter 3: Demand and supply analysis:Law of diminishing marginal utility-Determinants of demand -Law of demand- - Price elasticity of demand-Law of supply-Elasticity of supply-Demand Forecasting-meaning and significant.

Practicum: 1. Prepare a demand schedule based on selected product in the market.

2. Group discussion on human and non- human factors of business

MODULE 2: PRODUCTION AND MARKET 14 Hours

Chapter 4: Production analysis: Production function-Law of variable proportion -Laws of returns to scale. Marginal rate of substitution-isoquant curve.

Chapter 5:Market analysis: Perfect competition- features-Monopoly- features-Monopolistic competition – features-Price discrimination-meaning and types-Oligopoly - features

Chapter 6: Business cycles: Meaning and features- Phases of business cycle-Causes of business cycle-Control of business cycle

Practicum: 1. Group discussion on abuses of monopoly

2. Visit to a firm to study oligopolistic trends

MODULE 3: DEMAND FORECASTING AND CAPITAL BUDGETING 14 Hours

Chapter 7: Demand forecasting: Meaning and objectives-Methods of demand forecasting-Criteria of a good forecasting method

Chapter 8: Capital budgeting: Meaning of capital budgeting: Need for capital budgeting: Steps involved in capital budgeting: Methods of capital budgeting

Chapter 9: Investment management: Profit planning-Risk analysis-Techniques of strategic management.

Practicum: 1. Prepare a strategic roadmap for a hypothetical organization

2. Conduct a case study to explain simulation technique of demand forecasting

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1. Ahuja H.L.(2019): Business Economics, Sultan Chand & Sons, New Delhi
2. Dwivedi D.N (2019): Managerial Economics, Vikas Publishing House Pvt. Ltd., New Delhi.
3. Koutsoyiannis A.(2016) *Modern Micro Economics*, 2nd edition, London, Macmillan Press Ltd.
4. Lipsey R G and K A Crystal (2011) Principles of Economics, 12th edition, New Delhi OUP.
5. Mehta P.L (2018): Managerial Economics, Sultan Chand & Sons, New Delhi.
6. Mithani D.M.(2019): Managerial Economics, Himalaya Publishing House, Mumbai.
7. Peterso H. Craig and W.Cris Lewis (2018): Managerial Economics, Pearson Education, Singapore.
8. Pyndyck, R.S., and D.L. Rubinfeld (2012) *Microeconomics*, New Delhi, Pearson Education Singapore Pvt. Ltd.
9. Salvatore Dominic (2017): Managerial Economics, Macgraw Hill, New York.
10. Sundharam K.P.M. & Sundharam E.N. (2018) Business Economics, Sultan Chand & Sons, New Delhi.

SEMESTER II

TITLE OF THE COURSE: G 102 DC 1.2: BASIC ECONOMICS II

3 hours per week: Total hours: 42

COURSE OBJECTIVES:

- To train students in basic macroeconomic concepts and theories.
- To enable the students to understand the working of the economy at the aggregate level.

- To equip the students with appropriate tools of analysis to deal with issues and problems of macroeconomic policy
- To assist the students to develop suitable solutions for practical policy purpose which are very much expected by the society.

COURSE OUTCOME:

On successful completion of the course the student is expected to:

- Understand about the operation of the overall economic system.
- Calculate national income and related aggregates.
- Explain the relationship between macroeconomic aggregates
- Analyse the nature of business cycles and policies to control them.
- Evaluate the macroeconomic policies for solving major problems like poverty and unemployment.

MODULE I: MACROECONOMIC COCEPTS AND RELATIONSHIPS: 14 Hours

Chapter 1: Macroeconomy: Introduction to national income accounting, Meaning – definition- concepts – GNP- GDP- NNP- GNP at Market and Factor Cost- Personal income- Disposable income- Real income – Per capita income – Measurement and difficulties in calculation of National Income. Importance of National Income Analysis.

Chapter 2: Monetary economy: Characteristics, the demand for money, the supply of money, overall liquidity position, credit creation.

Chapter 3: Inflation: Definition of inflation - Classification of Inflation - Types of inflation - Demand Pull Inflation, Cost-Push inflation, Mark- up inflation – causes and Effects of inflation- calculation of inflation rate- Inflationary Gap – Deflation-meaning, causes and Effects.

MODULE II: MACROECONOMIC CHALLENGES AND POLICIES 14 Hours

Chapter 4: Macroeconomic challenges: Meaning and types, causes, measurement of Unemployment. Economic growth, Business Cycles –Meaning– Features, types - Phases- Causes, effects.

Chapter 5: Monetary policy: objectives and instruments.

Chapter 6: Fiscal policy: public finance vs private finance, fiscal function and role of government: allocation, distribution and stabilisation, Characteristics of public goods, rationale of public provision of public goods.

MODULE III: PUBLIC POLICY AND GLOBALISATION: 14 Hours

Chapter 7: Poverty and Public policy: Meaning, measurement and types of poverty, poverty alleviation strategies in India.

Chapter 8: International trade: The economic basis for trade- absolute and comparative advantage, terms of trade, exchange rates, Trade barriers- tariffs, subsidies and quotas, Balance of payment: the current and capital account.

Chapter 9: Globalisation: meaning, importance, pros and cons of globalisation.

REFERENCES:

1. Ahuja H.L. (1988) *Modern Economics*, New Delhi, S Chand and Co.Ltd.
2. Ahuja, H.L.(2013) *Macro Economics : Theory and Policy.*, New Delhi, S Chnad and Co Ltd.
3. Ahuja, H.L.(2017), *Macro Economics : Theory and Policy.*, New Delhi, S Chand and Co Ltd.
4. Burda Michael (2017) *Macro Economics*, 5th ed., Chennai, Oxford University Press.
5. David Romer (2011) *Advanced Macro economics*, Irwin/McGraw-Hill.
6. Deepashree(2011) *Principles Of Micro Economics*, 3rd Ed., Ane Books Pvt.Ltd.
7. Dornbsch, Fischer, Startz(2017), *Macroeconomics*, 11th Ed, Chennai, McGraw Hill education Pvt Ltd.
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9. Jingan M.L.(1987) *Macro Economic- Theory*. New Delhi, Konark Publishers.
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13. Samuelson P.A and Nordhaus W.D (2017) *Economics*, 19th Ed., New Delhi, Tata McGraw Hill Publishing Company Ltd.
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15. Seth ,M L *Micro and Macro Economics*, Agra, Lakshmi Narayan Agarwal Education Publishers.
16. Seth M.L (2014) *Macro Economics*, 30th Ed. Agra, Lakshmi Narayan Agarwal Educational Publishers.
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20. Vaish M.C. (2010) *Macro Economic Theory* 14th Ed. New Delhi: Vikas Publishing House.

SEMESTER II

TITLE OF THE COURSE: G 102 DC 2.2: KARNATAKA ECONOMY

3 hours per week: Total hours: 42

COURSE OBJECTIVES:

- To enable the students to understand the nature, growth and problems of economy of Karnataka.
- To equip the students with appropriate knowledge about the growth process of Karnataka Economy.
- To assist the students to evaluate the socio- economic policies of Karnataka state.

COURSE OUTCOME:

On successful completion of the course the student is expected to:

- Understand the nature, growth and problems of economy of Karnataka.
- Explain the process of growth of Karnataka Economy.
- Evaluate the policies and programmes undertaken by the Govt. of Karnataka for bringing about socio economic development.

MODULE I: CHARACTERISTICS OF KARNATAKA ECONOMY -14 Hours

Chapter 1: State Income: State Domestic product and PCI, Measures to redress regional imbalances.

Chapter 2: Human and natural resources: Population, HDI, Poverty and unemployment, Anti-poverty and employment generation programs, Functioning of Panchayat Raj Institutions.

Chapter 3: Natural resources in Karnataka: Land, Water, Forest and mineral resources in Karnataka, Karnataka sustainable development goals, Karnataka environmental policy.

MODULE II: AGRICULTURE AND INDUSTRIES IN KARNATAKA 14 Hours

Chapter 4: Agriculture in Karnataka: Importance and problems, land reforms, cropping pattern, irrigation, watershed development, dry land farming, farmers suicide- causes and solutions.

Chapter 5: Rural development: Public distribution System, Rural development Programmes.

Chapter 6: Industries in Karnataka: Major industries in Karnataka- Problems and Prospects, MSME'S – Problems and Measures. IT Industries in Karnataka, Industrial Policy of Karnataka.

MODULE III: INFRASTRUCTURE AND FINANCES - 14Hours

Chapter 7: Infrastructure in Karnataka: Transportation: road, rail, water and Air Transport. Information and Communication Technology facilities.

Chapter 8: Social Infrastructure: Drinking water, sanitation, housing, health and education, Social Security in Karnataka.

Chapter 9: State Finance: Sources of revenue: Direct and indirect taxes, GST- Impact and Collections, Sharing of central Taxes and Grant in Aid, Expenditure sources, State Indebtedness, state finance commission, State Budget.

REFERENCES:

1. Adul Aziz & K.G. Vasanti, (Eds) Karnataka Economy.
2. Government district development reports.
3. Government of Karnataka, Economic Survey (various Issues).
4. Hanumantha Rao, Regional disparities and development in Karnataka.
5. Karnataka at glance, Annual Publication Government of Karnataka.
6. Krishnaiah Gowda H.R. Karnataka Economy, Spandana Publication, Bangalore.
7. Madaiah M&Ramapriya. Karnataka Economy Growth: Issues and development, Himalaya Publication House, New Delhi.
8. Nanjundappa D.M. Some Aspects of Karnataka Economy.
9. Planning department, Annual Publication, Government of Karnataka.
10. Puttaswamiah K. Karnataka Economy, two volumes.

OEC: SEMESTER II

TITLE OF THE COURSE: G 102 OE 1.2: ECONOMICS OF BUSINESS ENVIRONMENT

3 hours per week: Total: 42 hours

COURSE OBJECTIVES:

- To learn the basic concepts of Business Environment /.
- To know how the development process is made possible in Business.
- To convey knowledge about theoretical framework of Budget and Policies

COURSE OUTCOME:

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

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

MODULE 1: INTRODUCTION TO BUSINESS ENVIRONMENT 14Hours

Chapter1: Introduction: Meaning and definition, objectives, importance and uses of study of business environment. Environmental analysis-Meaning, process of environmental analysis, limitations of environmental analysis, environmental factors-The Micro environment of business and the macro environment of business.

Chapter 2: Economic Environment: Meaning of Economic Environment-Characteristics of Indian economy -Impact of Liberalization Privatization & Globalization of Indian Business. Monetary policy-Meaning, objectives-Fiscal policy-Meaning, objectives, budget and importance-EXIM policy -meaning and objectives- Industrial policy-meaning, objectives (Latest Policy Measures).

Chapter3: Global Business Environment: Meaning: Globalization: Nature and Impact of globalization: Challenges of international business: GATT and WTO and its implications on Indian economy.

Practicum

1. Identification of the impact of business environment through surveys
2. Group discussion on WTO and its impact on Indian business

MODULE II: NON-ECONOMIC ENVIRONMENT 14 Hours

Chapter 4: Social and Cultural Environment: Business and Society- Social Objectives of Business-Corporate Social Responsibility- Consumer Rights& Corporate Governance-Business Ethics

Chapter 5: Technological Environment: Meaning-Technological changes- R&D in India-Public and Private Investment in R and D.

Chapter 6: Financial Environment: Introduction and Meaning-An Over view of Indian Financial System-Financial Institutions and their Roles-Role of Foreign Direct Investment and its impact on Indian Business

Practicum: Students are expected to analyze the major economic and financial indicators Such as GDP, Inflation, CPI, BSE, NSE, Currency, Gold rate, Oil barrel price etc., for a particular period of time and submit the report on the same.

MODULE III: GOVERNMENT AND BUSINESS IN INDIA14 Hours

Chapter 7: Political Environment: Introduction and Meaning Political Environment and the Economic system-Government and Business Relationship in India- Provisions of Indian Constitution for Business

Chapter 8: Legal Environmental Business: Indian Company Law-Contract law- Competition policy and law- Patents& Trademarks- Industrial Policy-An overview Labor Laws & Social Security, Environmental Laws.

Chapter 9: Current Issues: Ease of Doing Business-Performance of MSMEs-Make in India,-Development of economic and social infrastructure National Monetisation Pipeline (latest policies of the government)

Practicum: Students are expected to give a report on how the economic environment has affected the performance of any five large Indian Business Houses.

REFERENCES:

1. Adhikari M. (2018): Economic Environment of Business, Sulthan Chand and Sons, New Delhi.
2. Agarwal, Raj (2018): Business Environment, Excel Publications, New Delhi.
3. Fernando, A C.(2011):Business Environment, Pearson Education India, Delhi.
4. Francis Cherunilam (2017): Business Environment, Himalaya Publishing House, Mumbai.
5. Pailwar V.K (2014): Business Environment, Prentice Hall India Learning Ltd, Delhi.
6. Sivayya K.V and V B M Das. (2013): Indian Industrial Economy, Sulthan Chand Publications, Delhi.

OEC: SEMESTER -II

TITLE OF THE PAPER: G 102 OE 1.2: MANAGERIAL ECONOMICS

3 hours per week: Total: 42 hours

COURSE OBJECTIVES:

- To acquaint with the basic knowledge on the concept of managerial economics.
- To understand different market structures within which a firm operates.
- To enable the students to gain knowledge about the various tools, techniques and concepts of managerial economics.
- To understand the process of decision making by the consumers and producers.

COURSE OUTCOME:

- To know the basic knowledge of managerial economics.
- To understand the dynamics of business.
- To know about the managerial concept of business
- Helps the consumers and producers to take apt decisions

MODULE -I: NATURE AND SCOPE OF MANAGERIAL ECONOMICS -14 Hours

Chapter 1: Managerial Economics: Meaning, Definition of Managerial Economics - Nature and Scope of Managerial Economics ,Economics vs. Managerial Economics.

Chapter 2: Cost Analysis: Cost Concepts -Cost Output Relations - Short run and Long run cost curves. Mathematical problems.

Chapter 3: Revenue Analysis : Revenue: meaning, concepts: Total Revenue, Average Revenue and Marginal Revenue

MODULE II: PERFECT COMPETITION -14 Hours

Chapter 4: -Perfect Competition: meaning and features, Relationship between AR and MR under Perfect competition –Numerical illustration.

Chapter 5: Price and Output in Perfect Competition: Conditions of equilibrium, Determination of Equilibrium Price and Output - Industry and Firm,- Numerical Illustrations, Price- Output Determination in the short run and long run under Perfect Competition

Chapter 6: Break Even Analysis: Meaning of break even, assumptions, types, Usefulness, Limitations and Numerical Illustrations.

MODULE III: IMPERFECT COMPETITION

-14 Hours

Chapter 7: Monopoly: Meaning of imperfect competition. Relationship between TR, AR and MR under imperfect competition. Monopoly: meaning, features, Equilibrium -short run and long run -Price Discrimination -meaning -essential conditions -Equilibrium under Price Discrimination -Price Discounts and Differentials –meaning

Chapter 8: Monopolistic Competition: Meaning-Features -Price Output Determination under Monopolistic Competition.

Chapter 9: Oligopoly: Meaning -Features of Oligopoly, Types of Oligopoly, Kinked Demand Curve Model.

REFERENCES:

1. Ahuja H.L, (2014), *Advanced Economic Theory*, 20th Edition, New Delhi .S Chand and company Ltd .
2. Dewett.K.k, (2015) *Modern Economic Theory*, 23rd Edition, New Delhi.Shyamlal charitable Trust.
3. Jhingan .M.L, (2016), *Advanced Economic Theory*, 14th Edition, New Delhi. Vrinda Publication, Ltd.
4. Koutsoyiannis, (2016) *Modern Micro Economics*, 2nd Edition, New Delhi. MacMillan Press Ltd.
5. Kulkarni ABN (2012), *Managerial Economics*, 10th Edition, New Delhi. R.Chand and Co.
6. Mehta P.L, (2014), *Managerial Economics-Analysis, Problems, Cases*, 20th Revised Edition, New Delhi.Sulthan Chand and sons.
7. Mithani.M, (2016), *Managerial Economics: theory and Applications*, New Delhi.Himalaya Publishing House.
8. Varshney .R.L,Maheshwari K.L, (2014), *Managerial Economics*, 22nd Revised Edition, New Delhi: Sultan Chand and sons.

OEC: SEMESTER II

TITLE OF THE COURSE: G 102 OE 1.2: CONTEMPORARY INDIAN ECONOMY

3 hours per week: Total: 42 hours

COURSE OBJECTIVES:

- To enable students to have an understanding of the important issues and problems of the Indian Economy.

- To make the students understand the role of various economic policies in promoting the development of Indian Economy.
- To enable students to learn critically, discuss and debate current economic issues on the basis of latest policy documents and trends.

COURSE OUTCOME:

- Students will be informative about the nature of Indian Economy.
- Students will be able to understand the current problems of Indian economy.
- Students will be able evaluate the impact of LPG policies on economic growth in India.
- Students will be able to review various the sector specific policies adopted for achieving the aspirational goals.

COURSE CONTENTS

MODULE I: NATURE OF INDIAN ECONOMY, POPULATION AND AGRICULTURE

-14 Hours

Chapter 1: Recent issues: Genesis and Impact of LPG, Demographic dividend, India's human development in global perspective. Basic Features of Indian Economy -GDP of India – Trends, Composition and Sectoral Changes in Indian Economy - Demographic Profile - Problem of Overpopulation- Causes for and Effects of Population Growth – India's Population Policy, present family welfare programmes. Occupational Structure of India.

Chapter 2: Urbanisation and Governance:Urbanisation and smart city mission, informal sector, impact of COVID 19 pandemic, AtmaNirbhara Bharat Abhiyan.

Chapter 3: Economic reforms and Agriculture: Nature of Indian Agriculture; Trends in Agricultural Productivity ; Agriculture and WTO, Land Reforms; Agricultural Credit; Micro Finance; Kisan Credit Card, commercialisation and diversification, Agricultural Marketing; Agricultural price policy and subsidies, Impact of public expenditure on agricultural growth, Agrarian crisis, Doubling farm income, MGNREGA, Impact of Globalisation on Indian Agriculture - Concept of Sustainable Agricultural Development - Food Security and Public Distribution System.

MODULE II: INDUSTRY, BUSINESS AND FISCAL POLICY

-14 Hours

Chapter 4: Industrial policy: New industrial policy and changes-Industrial Sector Reforms Since 1991 –Objectives, Features. Major reforms:- Public sector reforms - Disinvestment, Privatisation, Delicensing, Competition policy, Foreign Direct Investment , Foreign Capital - Industrial Finance. Industrial Sickness: meaning, causes - SEZ's Concept and Role. Role of MNC'S in industrial development.

Chapter 5: Business: Ease of doing business, performance of MSMEs - Role, Problems and Government Measures for their Growth; Sources of Industrial Finance. Mudra Yojana, Startup India, Skill India, Make in India, development of economic and social infrastructure, national monetarisation pipeline,

Chapter 6: Fiscal policy: Tax, expenditure, budgetary deficits, pension and fiscal reforms, public debt management and reforms, fiscal responsibility and budget management (FRBM) Act, GST, Fiscal federalism and Fiscal consolidation, Recommendation of the current finance commission.

MODULE III: MONETARY POLICY, FOREIGN TRADE AND INVESTMENT: 14 Hours

Chapter 7: Monetary Policy: Organisation of Indian money market, financial sector reforms, interest rate policy, review of monetary policy of RBI

Chapter 8: Money and Capital Markets: Working of SEBI in India, changing role of RBI, commercial banks, development finance institutions, foreign banks and non-banking financial institutions, Analysis of price behaviour in India, Anti- inflationary measures, demonetisation and its impact

Chapter 9: Foreign Trade and Investment: India's foreign trade, India's balance of payments since 1991, New exchange rate regime: partial and full convertibility, capital account convertibility, FDI- trends and patterns, New EXIM policy, WTO and India, Bilateral and multilateral trade agreements and associations.

REFERENCES:

1. Agrawal A.N and AgarwalMK(2017) Indian Economy, Problem and Development and Planning, 42nd Ed, London, New Age International Pvt Ltd Publishers.
2. Bhole, L.M. and JintendraMahakud(2009)*Financial Institutions and Markets: Structure, Growth and Innovations* , 5th Ed, New Delhi, Tata McGraw Hill.
3. Cauvery R, Kruparani N, Nayak UK Sudha, Manimekalaica(2013), Monetary economics, New Delhi, S Chand and Co Pvt Ltd.

4. Dhingra, I.C(2012),*The Indian Economy: Environment and Policy*, 27th Ed, New Delhi, Sultan Chand & Sons.
5. E Gardon& K Natarajan (2010)Banking Theory, Law and Practice, 22nd Ed, New Delhi, Himalaya Publishing House.
6. Economic and Political Weekly, Various Issues.
7. *Government of India: Economic Survey*(Annual) New Delhi, Ministry of Finance,
8. Gurusamy, S(2009)*Financial Markets and Institutions* 3rd Ed, Chennai, McGraw Hill.
9. I.J. Ahluwalia and I.M.D. Little(1999), *India's Economic Reforms and Development*, New Delhi, OUP,
10. Jalan , Bimal,(2004),*The Indian Economy : Problems and Prospects*, New Delhi, Penguinm
11. Jhingan, M.L(2009) Money, Banking, International Trade and Public Finance 9th Ed, Delhi, Vrinda Publications.
12. Jhingan, M.L(2014), Monetary economics, 7th Ed, New Delhi, Vrinda Publications Pvt Ltd.
13. Lekhi, R.K and Joginder Singh (2015), Agricultural Economics, Ludhiana, Kalyani Publishers.
14. Mahajan, Ashwani and GauravDutt(2013), *Indian Economy*, New Delhi, 68th Ed. S. Chand & Company Ltd.
15. Mahajan, Ashwani and GauravDutt, 2016, *Indian Economy*, New Delhi, 72nd Ed. New Delhi, S Chand & Company Ltd,
16. Misra, S.K. and V.K. Puri (2012), *Indian Economy 30th Ed.*, New Delhi, Himalaya Publishing House.
17. Misra, S.K. and V.K. Puri , (2016), *Indian Economy 34th Ed.*, Mumbai, Himalaya Publishing House,
18. R.B.I.: RBI Bulletins
19. SinhaYashwant, SrivastavVinayk(2017), Future of Indian Economy, New Delhi, Rupa and Co.
20. Web-sites of Various Govt Departments and Institutions. Avadahani, V.A(2011)*Financial Services in India*, New Delhi, Himalaya Publishing House.

OEC: SEMESTER- II

TITLE OF THE COURSE: G 102 OE 1.2: MONETARY ECONOMICS

3 hours per week: Total: 42 hours

COURSE OBJECTIVES:

- To acquaint with the basic knowledge on the concept of Monetary Economics ..

- This course exposes students to some of the key ideas and concepts in the areas of Banking

COURSE OUTCOME:

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

1. Understand the current monetary policy and problems
2. Identify and analyse monetary instruments
3. Review the various trends and functions of monetary and financial institutions

MODULE 1: INTRODUCTION TO MONETARY ECONOMICS 14 Hours

Chapter 1: Nature and functions of money: Difficulties of barter exchange system- Evolution of money-Definitions of money- Functions of money- Demand and supply of money

Chapter 2: Theories of Value of Money: Meaning- Cash transaction approach-Cash Balance Approach-Milton Friedman's Restatement of Quantity theory

Chapter 3: Inflation: Meaning and types of inflation-Causes and effects of inflation-Measures to control inflation

Practicum: 1. Discussion on the various forms of money

2. Gather information on near money assets

MODULE II: BANKING 14Hours

Chapter 4: Commercial banking: Functions of commercial banks-Balance sheet of a commercial bank- Investment policy of a commercial bank-Process of Creation of money by commercial bank.

Chapter 5:New age banking: ATM, Credit Cards, Debit Card, smart cards-Internet banking - E-Banking -Mobile banking- Digital banking instruments- Core banking- Universal Banking

Chapter -6:Central Banking: Meaning and definitions- Functions of central banks-Monetary policy of central banks – objectives and instruments

Practicum: 1. Discuss the developmental role of central bank

2. Visit to a commercial to study bank – customer relationships

MODULE III: INTERNATIONAL BANKING AND FINANCE 14 Hours

Chapter 7: International Monetary Fund: Objectives and functions of IMF-Organisation structure and policies- Financial instruments-Policies

Chapter 8: IBRD OR World Bank: Objectives and functions of IBRD- Organisation structure and policies-Development assistance-Financing Investment

Chapter 9: Asian Development Bank, BRICS Bank and International Financial Corporation: Objectives and functions- Organization structure and policies-Development assistance- Financing development

**Practicum: 1. Discuss the recent policy approaches of World Bank towards developing
2. Study the recent trends in BRICS Bank**

REFERENCES:

1. Anderson, Kym. (2001). "Globalization, WTO, and ASEAN," ASEAN Economic Bulletin 18(1), (April), pp. 12-23.
2. Batra, Raveendra N. (1975). The Pure Theory of International Trade under Uncertainty, The Macmillan Press Ltd., London.
3. Bernanke, Ben S. (2004). "The Great Moderation," Remarks at the meetings of the Eastern Economic Association, Washington, DC, February 20, online.
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6. Buiters, Willem and Ebrahim Rahbari. (2012). "Rising Risks of Greek Euro Area Exit," Global Economics View, February 6.
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8. Chacholiades, Miltiades (1990). The Pure Theory of International Trade, McGraw Hill, Kogakusha, Japan.
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10. Dana, M.S. (2000). International Economics: Study, Guide and Work Book, Routledge Publishers, London.
11. Dunn, R.M. and J.H. Mutti (2000). International Economics, Routledge Publishers, London.
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13. Indian Institute of Banking – International Banking Operations
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18. Sayers R. S.(1967); 'Modern Banking' - Oxford University Press- Seventh Edition-
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OEC: SEMESTER- II

TITLE OF THE COURSE: G 102 OE 1.2: SUSTAINABLE DEVELOPMENT

3 hours per week: Total: 42 hours

COURSE OBJECTIVES:

- Able to explain the components of environment.

- Identify the importance of environment in the growth of an economy.
- Analyze the ways to utilize the environmental conditions for the future generation to sustain healthy living.

COURSE OUTCOME:

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

- Understand the interconnection within the ecosystem of all living beings.
- Identify the importance of sustainability.
- Identify factors to find solutions to environment problems that are relevant to protect the welfare of the people.
- Analyse the sustainable goals at the national and international levels.

MODULE 1: ENVIRONMENT AND DEVELOPMENT 14 Hours

Chapter 1: Environment Good: Meaning and characteristics, Relationship between environment and development, Kuznets curve, Sustainable development: meaning and indicators.

Chapter 2: Resource Use and Management: Resource taxonomy: Renewable and non-renewable resources, Economic theory of depletable resources, Optimal use of renewable resources, Resource scarcity and economic growth: limits to growth, Tragedy of commons, Resource pricing and conservation.

Chapter 3: Sustainable Development: Definition, objectives and principles, Process and indicators of sustainable development, Approaches and strategies of sustainable development, Environmental accounting measures.

MODULE II SUSTAINABLE DEVELOPMENT GOALS 14 Hours

Chapter 4: Introduction and History: Brundtland Committee Recommendations, Rio Summit, SDGs: Goals, targets and indicators.

Chapter 5: Government and SDGs: Planning, Localising the SDGs, Policy Instruments, Industrial policy and SDGs

Chapter 6: Financing SDGs: Types of financing SDGs, New financing and global funds to achieve the goals.

Practicum: Students are expected to analyze the policy of SDGs in India and its achievement

MODULE III: ISSUES IN IMPLEMENTATION

14 Hours

Chapter 7: Means to Realise SDGs: Circular economy, Sustainable production and consumption, Sustainable cities and transportation, Sustainable designs technology, digital revolution and innovation. Use of renewable energy.

Chapter 8: Implementing SDGs: Governance and policies, Openness, participation and accountability, Effectiveness and coherence, India's framework for sustainable development.

Chapter 9: Other Issues In Implementation: Social business, CSOs and operations, Development assistance, Cross border cooperation

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10. Kolstad, C.D. (2020). Environmental Economics, Oxford University Press, New Delhi.

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14. Perman, R. Ma and J. McGilvary (2003). Natural Resource and Environmental Economics, Longman, London.
15. Roger Fouquet (2019). Handbook on Green Growth, Edward Elgar Publishing.
16. Sengupta, R.P. (2001). Ecology and Economics: An Approach to Sustainable Development, Oxford University Press, New Delhi.

SEMESTER III

TITLE OF THE COURSE: G 102 DC 1.3: MICRO ECONOMICS

4 hours per week: Total hours: 42

COURSE OBJECTIVES:

- To help students to acquire knowledge of some of the basic concepts, principles and theories of Micro Economics.

- To provide the foundation for the study of other branches of Economics.
- To develop analytical, reasoning and graphical presentation of skills.
- To enable the students to appreciate the utility of economics in day – today life.
- To enable students to understand different types of market structures and their working.
- To help students to understand the concept of distribution.

COURSE OUTCOME:

- Identify the facets of an economic problem.
- Learn basic economic concepts and terms.
- Explain the operation of a market system.
- Analyze the production and cost relationship of a business firm.
- Evaluate the market decisions under different structure.
- Use basic cost benefit calculations as a means of decision making.

MODULE I: BASICS OF MICROECONOMICS: -14 Hours

Chapter 1: Exploring Micro Economics: Nature and scope of economics – opportunity cost, scarcity, production possibility frontier - Market system as a way to organise economic activities, welfare state.

Chapter 2: Supply and Demand: Determinants of demand and supply; demand and supply schedules and; individual and market demand and supply; shifts in the demand and supply curves; Interaction of demand and supply; Equilibrium price and quantity.

Chapter 3: The Households: Diminishing Marginal Utility; Indifference curves – Meaning and Properties; budget constraint; Satisfaction Maximization; income and substitution effects; choice between leisure and consumption.

MODULE II: PRODUCTION - 14Hours

Chapter 4: The Firms: Concept of firm and Industry; Production Function; Law of Variable Proportions; isoquant and isocost lines, cost minimizing equilibrium condition; Returns to Scale; Features of Cobb-Douglas Production Function

Chapter 5: Cost of Production: Short run and long run costs; Returns to Scale

Chapter 6: The Markets: Meaning of Market Structure and Types; Pricing under perfect competition; Monopoly pricing and price discrimination; Monopolistic Competition – Features and Pricing; Oligopoly – Interdependence, Collusive and non-collusive oligopoly; Elements of Game theory

MODULE III: MARKET THEORIES & BEHAVIOURAL ECONOMICS - 14 Hours

Chapter 7: The Inputs (Factors): Functional and Personal Income; Demand for and supply of factors; Marginal Productivity Theory of Distribution; Meaning and determinants of Rent, Wages, Interest and Profits.

Chapter 8: Chapter 8: Welfare Economics: Meaning of Welfare; Pigou's Welfare Economics; Compensation principle; Impediments to attain Maximum Social Welfare; Externalities, Market Failure.

Chapter 9: Economic Theory and Policy: Pricing Practices; Basics of Monetary and Fiscal Policies; Controls and Regulations; Incentives and Penalties; Labour policies.

REFERENCES:

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SEMESTER III

TITLE OF THE COURSE: G 102 DC 2.3: STATISTICS FOR ECONOMICS

3 hours per week: Total hours: 42

COURSE OBJECTIVES:

- To train students in statistical techniques in order to understand economic problems.

COURSE OUTCOME:

On Successful completion of the course, the student will be able to

- Calculate basic descriptive and inferential statistics.
- Interpret descriptive and inferential statistics.

- Explain the process of hypothesis testing.

MODULE I: DATA COLLECTION 14 Hours

Chapter 1: Basic Concepts: Population and Sample, Parameter and Statistic; Data Collection: Primary and Secondary Data, Methods of Collection of Primary Data.

Chapter 2: Sample Design: Census method, sample Method, Essentials of Sampling, Sampling Methods – Merits and Limitations of Sampling.

Chapter 3: Presentation of Data: Frequency Distribution; Cumulative Frequency; Graphic and Diagrammatic Representation of Data.

MODULE - I1: MEASURES OF CENTRAL TENDENCY AND DISPERSION 14 Hours

Chapter-4: Measures of Central Tendency: Arithmetic Mean, Median, Mode, Geometric Mean and Harmonic Mean Measurement and Applications in Economics

Chapter-5: Measures of Dispersion: Meaning and Significance of Measure of Dispersion- Measurement and Applications of Range , Quartile Deviation, Mean Deviation , Standard Deviation , Variance and Coefficient of Variation, Lorenz Curve

Chapter- 6: Correlation: Meaning and Types of Correlation, Methods of Computation of Correlation Coefficient –Karl Pearson’s Method, Spearman’s Rank Correlation.

MODULE – III : REGRESSION, TIME SERIES ANALYSIS AND INDEX NUMBERS 14 Hours

Chapter- 7: Regression: Method-Regression–Meaning and Importance of Regression Analysis, Simple Regression Lines and Equations and Forecasting (Two Variables Only)

Chapter -8: Time Series: Nature and Decomposition of Time Series -Analysis of Trend - Moving Average Method, Least-Square Method

Chapter -9: Index Numbers: Nature and Purpose of Index Numbers -Types of Index Numbers: Price Index -Quantity Index, Link and Chain Index -Simple and Aggregate Index Numbers -Laspeyre’s Index, Paasche’s Index, Marshall and Edgeworth’s Index -Fisher’s Index –Time-Reversal and Factor Reversal Tests-Deflation and Splicing of Index Numbers -Problems in the Construction of Index Numbers -Limitation of Index Numbers.

REFERENCES:

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

2. Douglas, A Lind, William G. Marchal and Samuel A. Wathen(2012): *Statistical Techniques in Business and Economics*, 15th Ed, NewDelhi, TMH.
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SEMESTER IV

TITLE OF THE COURSE:G 102 DC 1.4: MACRO ECONOMICS

3 hours per week: Total hours: 42

COURSE OBJECTIVES:

- To train students in basic macroeconomic concepts and theories.
- To enable the students to understand the working of the economy at the aggregate level.
- To equip the students with appropriate tools of analysis to deal with issues and problems of macroeconomic policy
- To assist the students to develop suitable solutions for practical policy purpose that are very much expected by the society.

COURSE OUTCOME:

- On successful completion of the course the student is expected to get
- a thorough understanding of the various theories behind pricing of products and factors in different market environment;
- Ability to identify and evaluate the main models of market structures and to appreciate the theories behind policy prescriptions.
- This course in Macroeconomics is expected to develop skill in economic reasoning. By the time, students complete this course, they would know the relevance of

government decisions like Wage policy, monetary policy, the RBI policy, etc. in the day-to-day life.

MODULE I: CLASSICAL FRAMEWORK 14 Hours

Chapter 1: Macroeconomy: Macro Economics - Meaning – Branches of Macro Economics – Scope, Uses & Limitations of Macro Economics – Classical Theory of Employment – Classical Remedies for Unemployment- Say's Law of Markets- Fisher's Quantity theory of money-Knut Wicksell's loanable funds theory -Classical dichotomy and neutrality of money.

Chapter 2: The Keynesian Framework: Introductory: connecting growth of national income to development; why incomes of all fall or rise? Are income, output, and employment related? Some Basic concepts: The idea of equilibrium and identity; ex- ante and ex-post concepts. Aggregate Demand and its components, Consumption function: Algebraic and Graphical explanation; Marginal and Average propensity to consume.

Chapter 3: Investment function: Investment function; savings and investment relationship. Aggregate Supply: Meaning and graphical explanation; Effective demand. Determination of national income in Keynes' two sector economy with Aggregate Demand and Aggregate Supply with fixed prices: Analytical /Graphical and algebraic explanation; numerical problems. Determination of national income in Keynes' two sector economy with investment and savings with fixed prices: Analytical / Graphical and algebraic explanation; numerical problems.

MODULE II: AGGREGATE CONSUMPTION AND INVESTMENT 14 Hours

Chapter 4: Theories of determination of consumption: Keynesian Psychological Law of consumption; determinants Permanent Income hypothesis of Milton Friedman.

Chapter 5: Investment: Types of investment, determinants of investment- MEC, rate of interest- meaning and determinants.

Chapter 6: Concepts of Multiplier and Accelerator: Investment multiplier, meaning, assumptions, working, leakages.

MODULE III: MONETARY ECONOMICS 14 Hours

Chapter 7: Money Supply: Concept of Money Supply; recent measures of money supply as suggested by RBI, Determinants of money supply: high powered money, money multiplier, The reserve ratio and deposit multiplier.

Chapter 8: Demand for money: Cash transactions approach (only meaning) and Cambridge approach (Only Marshall's equation) The liquidity preference approach of Keynes.

Chapter 9: Inflation and unemployment: Phillips Curve, Wage cut theory and employment

REFERENCES:

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2. Ahuja, H.L.(2017) *Macro Economics : Theory and Policy.*, New Delhi, S Chnad and Co Ltd.
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SEMESTER IV

TITLE OF THE COURSE: G 102 DC 2.4: MATHEMATICS FORECONOMICS

3 hours per week: Total hours: 42

COURSE OBJECTIVES:

- To acquaint the students with elementary knowledge of mathematical techniques in Economics.
- To train them to use mathematical techniques in economics.

COURSE OUTCOME:

On Successful completion of the course, the student will be able to

- Perform basic operations in Vectors and Matrix algebra.
- Calculate limits, derivatives and integrals of functions of multiple variables.
- Calculate Optima for constrained and unconstrained optimization problems encountered in Economics.

MODULE I: BASICS OF MATHEMATICAL ECONOMICS, LINEAR AND NON-LINEAR FUNCTIONS AND THEIR APPLICATIONS 14 hours

Chapter-1: Basics of Mathematical Economics: Nature of Mathematical Economics and its Applications in Economic Analysis -Mathematical Model: Variables, Constants, Parameters, Equations and Identities Sets: Set Notation, Operations, Finite and Infinite Sets, Laws of Set Operations.

Chapter-2: Linear Functions and their Application in Economic Analysis: Linear

Functions - Two Point Formula - Demand Function - Supply Function - Market Equilibrium - Taxation - Subsidy - Break-Even Analysis - Elasticity of Demand

Chapter-3 : Non- Linear Functions and their Application in Economic Analysis:

Quadratic Function - Market Equilibrium - Production Possibility Curves - Power Function- Pareto's Law Income Distribution -Logarithm and Anti- Logarithms- Exponential Function - Interest Compounding, Discounting

MODULE II: MATRICES AND DIFFERENTIATION AND THEIR APPLICATIONS 14

hours

Chapter 4: Matrices: Concept, Types, Matrix Operations-Addition and Subtraction, Matrix Multiplication, Commutative, Associative and Distributive Laws-Transpose - Inverse Matrix -Determinants: Properties, Rank of Matrix, Minor, Co-Factor -Cramer's Rule, Derivation and Its Applications in Economics

Chapter-5: Differential Calculus their Application in Economic Analysis: Continuity and Differentiability of a Function -Rules of Differentiation of a Function, Constant Functions, Linear, Power, Sums and Differences of Functions, Product of Functions, Quotient of Functions, Chain Rule, Exponential And Logarithmic Functions , maxima and minima - application of derivatives in economics - cost - average and marginal cost relationship - revenue - average and marginal relationship -equilibrium of the firm under perfect competition, monopoly, price discrimination.

Chapter -6: Concept of Integration and its Application in Economic Analysis: Rules of Integration -- Indefinite Integration. Cost- Revenue - Profit Analysis, Definite Integrals -Area and Summation Applications Integration in Economic Analysis-Consumers Surplus Producers Surplus-Obtaining Primitive Function from Marginal Function

MODULE III: GENERAL MARKET EQUILIBRIUM ANALYSIS 14 hours

Chapter 7: Simultaneous Equations- General Market Equilibrium - IS-LM Model Analysis. Concept of optimisation -Unconstrained Optimization -Lagrangian Multiplier, Constrained Optimisation.

Chapter 8 :Linear Models: Input- Output Model: Basic concepts and structure of Leontief's open and static Input-Output model; solution for equilibrium output in a three industry model; the closed model.

Chapter 9: Linear Programming and their Application in Economic Analysis: Basic Concept; Formulation of a LP Problem; Nature of feasible, basic and optimal solutions; Solution of a LP problem through Graphical Method, Application to Economic Analysis.

REFERENCES:

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