



A REPORT ON THE
CURRICULUM FRAMEWORK FOR UNDER
GRADUATE PROGRAM IN UNIVERSITIES OF
KARNATAKA STATE
IN
ECONOMICS



Submitted to

KARNATAKA STATE HIGHER EDUCATION COUNCIL
30, Prasanna Kumar Block, Bengaluru City University Campus,
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Composition of Curriculum Draft Committee for Economics

Sl.no	Name & Organization	Designation
1.	Dr. B.P. Veerabhadrappe Vice-Chancellor, Kuvempu University, Shankaraghatta	Chairperson
2.	Dr. B. K. Tulasimala Vice-Chancellor, KSAW University, Vijayapura	Member
3.	Dr. D.V. Gopalappa Professor, University of Mysore, Mysuru	Member
4.	Dr. S.T. Bagalkoti Professor, Karnatak University, Dharwad	Member
5.	Dr. S. R. Keshava Professor, Bangalore University, Bengaluru.	Member
6.	Dr. Viswanatha Professor, Mangalore University, Konaje	Member
7.	Dr. Dasharath Naik Professor, Gulbarga University, Kalaburgi.	Member
8.	Dr. Jayasheela Professor, Tumkur University, Tumakuru.	Member
9.	Dr. D.N. Patil Professor, Rani Channamma University, Belagavi	Member
10.	Dr. Basavaraja S. Benni Professor, VSK University, Ballari	Member
11.	Dr. Rangappa K.B. Professor, Davanagere University, Davanagere.	Member
12.	Dr. D. Kumuda Professor, Bengaluru North University, Kolar	Member
13.	Dr. N.T. Somashekhar Assoc. Professor, Maharani College, Mysuru	Member
14.	Dr. Hanumantharaya Y.S. Assoc. Professor, GFGC, Midigeshi, Madhugiri Tq.	Member
15.	Dr. Timmaraddi Assoc. Professor, A. S. Women's College, Ballari.	Member
16.	Dr. K.B. Dhanajaya Principal, Sahyadri Arts College, Shivamogga.	Member
17.	Dr. Joy Narella Assoc. Professor, University College of Arts, Tumakuru.	Member
18.	Dr. Prasanna Pandhari GFGC, Rajnagar, Hubballi	Member
19.	Dr. Tejaswini B. Yakkundimath Special Officer, Karnataka State Higher Education Council	Member Convener

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**CONTINUOUS INTERNAL EVALUATION AND SEMESTER END
EXAMINATION**

Total marks for each course shall be based on continuous assessments and term end examinations. As per the decision of the Karnataka State Higher Education Council, it is necessary to have uniform pattern of 40: 60 for CIA and Semester End examinations respectively, among all the Universities, their affiliated and autonomous colleges.

The committee deliberated on the same and suggested the following pattern for the CIE Marks.

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

Structure of BA/B.Sc

In

Economics

SYLLABUS FOR FIRST TWO SEMESTERS OF BA
In
ECONOMICS

BA Economics Semester 1

DSC 1.2: Basic Economics – I (Economic Analysis -I) 3 credits

Course Outcomes:

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

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

Content of Basic Economics 1	45 Hrs
Unit – 1 Basic Concepts in Economics	15
<p>Chapter No. 1 Nature and Scope of Economics</p> <ul style="list-style-type: none"> • Meaning of Economics • Nature of Economics • Scope of Economics • Methods of Economics • Why Study Economics? <p>Chapter No. 2 Thinking Like an Economist</p> <ul style="list-style-type: none"> • Thinking Like an Economist • The Economist as Scientist • The Economist as Policy Adviser • Economic Policy <p>Chapter No. 3 Economic System</p> <ul style="list-style-type: none"> • Types of Economic Activities • Organisation of Economic Activities • Circular Flow of Economic Activities • Evolution of the Present Economic Systems <p>Practicum: 1. Group Discussions on Choice Problem 2. Assignment on Types of Economic Systems</p>	
Unit – 2 Demand, Supply and Markets	15
<p>Chapter No. 4. Firms and Household</p> <ul style="list-style-type: none"> • Meaning of Firms and Household • Relationship Between Firms and Household • Input Markets • Output Markets <p>Chapter No. 5. Demand and Supply</p> <ul style="list-style-type: none"> • Individual Demand • Market Demand • Demand Determinants • Supply and its Determinants • Market Equilibrium 	

<p>Chapter No. 6. Elasticity and its Measurement</p> <ul style="list-style-type: none"> • Types of Elasticity of Demand • Price, Income and Cross Elasticities • Measurement of Elasticity of Demand • Determinants of Elasticity of Demand <p>Practicum: 1. Estimation of demand and supply elasticities 2. solving an equilibrium problem</p>	
<p>Unit – 3 Cost and Market Structures</p>	15
<p>Chapter No. 7 Production and Costs</p> <ul style="list-style-type: none"> • Production Function • Total Production Cost • Marginal Production Cost • Average Production Cost • Revenue Functions <p>Chapter No. 8. Accounting and Economic Costs</p> <ul style="list-style-type: none"> • Cost in the Short run • Fixed Costs and Variable Costs • Marginal Costs • Long run AC and MC • TR, MR, AR <p>Chapter No. 9. Market Structures</p> <ul style="list-style-type: none"> • Markets • Perfect and Imperfect Competition • Features of Perfect Competition • Monopoly, Oligopoly and Monopolistic Competition • Pricing Strategies <p>Practicum: 1. Calculation of various costs and comparing them with production concepts; a mini-project can be taken up wherever possible 2. Studying the real-life pricing mechanism through a project/ case studies</p> <p>References (indicative)</p> <ol style="list-style-type: none"> 1. Cohen, A.J. (2020). <i>Macroeconomics for Life: Smart Choices for All? + MyLab Economics with Pearson eText</i> (updated 2nd ed.). Toronto, ON: Pearson Canada Inc. Type: Textbook: ISBN: 9780136716532 2. Cohen, A.J. (2015). <i>Microeconomics for Life: Smart Choices for You + MyLab Economics with Pearson eText</i> (2nd ed.). Toronto, ON: Pearson Canada Inc. Type: Textbook: ISBN: 9780133899368 3. Case Karl E. and Fair Ray C. Principles of Economics, Pearson Education Asia, 2014. 4. Mankiw N. Gregory. Principles of Economics, Thomson, 2013. 5. Stiglitz J.E. and Walsh C.E. Principles of Economics, W.W. Norton & Co, New York, 2011. 	

Semester II

Course Title: DSC 1.3: Contemporary Indian Economy	
Total Contact Hours: 45	Course Credits: 3
Formative Assessment Marks: 40	Duration of ESA/Exam: 2 Hrs
Model Syllabus Authors:	Summative Assessment Marks: 60

Course Pre-requisite(s):

Course Outcomes (COs):

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

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

Content of Course 1	45 Hrs
Unit – 1 LPG POLICIES, ECONOMIC REFORMS AND AGRICULTURE	15
<p>Chapter No. 1 Recent Issues</p> <ul style="list-style-type: none"> • Genesis and Impact of LPG • India's population policy • Demographic Dividend • India's human development in global perspective <p>Chapter No. 2 Urbanization and governance</p> <ul style="list-style-type: none"> • Urbanization and Smart City Mission • Informal sector • Impact of COVID-19 Pandemic • Atma Nirbhara Bharat Abhiyan <p>Chapter No. 3 Economic Reforms and Agriculture</p> <ul style="list-style-type: none"> • Agriculture and WTO • Price policy and Subsidies • Commercialisation and Diversification • Public Distribution System • Impact of public expenditure on agricultural growth • Agrarian Crisis, Doubling Farm Incomes, MGNREGS <p>Practicum</p> <ol style="list-style-type: none"> 1. Mini-project to ascertain the impact of pandemic on lives of different sections of population 2. Field visits to understand the agrarian situation 	
Unit – 2 INDUSTRY, BUSINESS, FISCAL POLICY	15
<p>Chapter No. 4. Industrial Policy</p> <ul style="list-style-type: none"> • New Industrial Policy and changes • Public sector reform • Privatisation and Disinvestment 	

<ul style="list-style-type: none"> • Competition Policy 	
<p>Chapter No. 5. Business</p> <ul style="list-style-type: none"> • Ease of Doing Business • Performance of MSMEs • Role of MNC's in Industrial Development • Make in India, development of economic and social infrastructure • National Monetization Pipeline <p>(The teacher should include the latest policy of the government)</p> <p>Chapter No. 6. Fiscal Policy</p> <ul style="list-style-type: none"> • Tax, Expenditure, Budgetary deficits • Pension and Fiscal Reforms • Public debt management and reforms • Fiscal Responsibility and Budget Management (FRBM) Act • GST, Fiscal Federalism and Fiscal Consolidation • Recommendations of the Current Finance Commission <p>Practicum: Mini-projects to assess the business climate</p>	
<p>Unit – 3 MONETARY POLICY, FOREIGN TRADE AND INVESTMENT</p>	15
<p>Chapter No. 7 Monetary Policy</p> <ul style="list-style-type: none"> • Organisation of India's money market • Financial sector reforms • Interest rate policy • Review of monetary policy of RBI <p>Chapter No. 8. Money and Capital Markets</p> <ul style="list-style-type: none"> • Working of SEBI in India • Changing roles of the Reserve Bank of India • Commercial banks, • Development Finance Institutions • Foreign banks and Non-banking financial institutions • Analysis of price behaviour in India, Anti-inflationary measures • Demonetization and its impact <p>Chapter No. 9. Foreign Trade and Investment</p> <ul style="list-style-type: none"> • India's foreign trade • India Balance of payment since 1991 • New Exchange Rate Regime: Partial and full convertibility • Capital account convertibility • FDI – Trends and Patterns • New EXIM policy, WTO and India • Bilateral and Multilateral Trade Agreements and Associations <p>Practicum:</p> <ol style="list-style-type: none"> 1. Computation and analysis of Wholesale Price Index, Consumer Price Index: components and trends. 2. Group Discussions on India's trade policies and trade agreements <p>References</p> <ul style="list-style-type: none"> • Bardhan, P.K. (9th Edition) (1999), The Political Economy of Development in India, Oxford University Press, New Delhi. • Bhaduri Amit, (2015), A Model of Development By Dispossession, Fourth Foundation • Byres Terence J. (ed.), (1998), The State, Development Planning and Liberalisation 'in India, Delhi, OUP • Dutt Ruddar and K.P.M Sundaram (2001): Indian Economy, S Chand & Co. Ltd. New 	

<p>Delhi.</p> <ul style="list-style-type: none"> • Frankel Francine R., (2004), India's Political Economy, Delhi. OUP Jenkins Rob, 2000, Economic Reform in India, Cambridge, CUP • Jalan, B. (1996), India's Economic Policy- Preparing for the Twenty First Century, Viking, New Delhi. • Joshi Vijaya and L.M.D. Little, (1998), India's Economic Reform 1991-2001, Delhi, OUP. • Kapila Uma: Indian Economy: Policies and Performances, Academic Foundation • Mishra S.K & V.K Puri (2001) "Indian Economy and –Its development experience", Himalaya Publishing House. • Mukharji Rahul (ed.) (2007), India's Economic Transition: The Politics of Reforms, edited by Rahul Mukherji, Oxford University Press , New Delhi. • Stuart and John Harris, (2000), Reinventing India, Cambridge Polity 	
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Pedagogy

Formative Assessment	
Assessment Occasion/ type	Weightage in Marks
Internal Test	50%
Assignment	20%
Presentation/Project	30%
Total	100

Date

Course Co-ordinator

Subject Committee Chairperson

Semester I

Course Title: OEC 1.5: Kautilya's Arthashastra (OEC)	
Total Contact Hours: 45	Course Credits: 3
Formative Assessment Marks: 40	Duration of ESA/Exam: 2 Hrs
Model Syllabus Authors:	Summative Assessment Marks: 60

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

Course Outcomes (COs):

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

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

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

India, 2005.

2. Arthashastra of Kautilya by Sri. Vacaspati Gairola, Chaukhambha Vidyabahavan, Varanasi, India, 2013.

3. Kautilya, The Arthashastra by L.N. Rangarajan, Penguin Books Ltd, London.

4. Kautilya's Arthashastra: The Way of Financial Management and Economic Governance, Jaico Publishing House, Mumbai, India.

Pedagogy

Formative Assessment	
Assessment Occasion/ type	Weightage in Marks
Internal Test	50%
Assignment	20%
Presentation/Project	30%
Total	100

Date

Course Co-ordinator

Subject Committee Chairperson

Semester 1

Course Title: OEC 1.5: Pre-Reforms Indian Economy (OEC)	
Total Contact Hours: 45	Course Credits: 3
Formative Assessment Marks: 40	Duration of ESA/Exam: 2 Hrs
Model Syllabus Authors:	Summative Assessment Marks: 60

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

Course Outcomes (COs):

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

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

Unit	Description	Hours
I	Features and problems of Indian Economy	15
	<p>Chapter 1: Features of Indian Economy</p> <ul style="list-style-type: none"> • India as a developing economy, • Demographic features • Human Development (HDI), • Problems of Poverty, Unemployment, Inflation, income inequality <p>Chapter 2: Issues in Agriculture sector in India</p> <ul style="list-style-type: none"> • Land reforms • Green Revolution • Agriculture marketing in India • Agricultural price policy <p>Chapter 3: Industrial and Service Sector</p> <ul style="list-style-type: none"> • Industrial development; • Micro, Small and Medium Enterprises, • Industrial Policy • Performance of public sector in India, • Service sector in India. <p>Practicum: 1. Identifying economic problems and their causes; 2. Mini-project on any aspect of Indian agriculture, industry, service and public sectors</p>	
II	Economic Policies	15
	<p>Chapter 4: Planning</p> <ul style="list-style-type: none"> • Mixed Economy • Bombay Plan • Gandhian Model • Nehru Mahalanobis Model • Objectives and achievements of economic planning in India <p>Chapter 5: Monetary policy in India</p> <ul style="list-style-type: none"> • Instruments of Monetary Policy 	

	<ul style="list-style-type: none"> • Black money in India – Magnitude and Impact <p>Chapter 6: Fiscal Policy in India</p> <ul style="list-style-type: none"> • Tax Revenue • Public expenditure • Budgetary deficits • Fiscal reforms • Public debt management and reforms • Centre state Finance Relations and Finance commissions in India. <p>Practicum: Assignment on successes and failures of India’s planning; Monetary and Fiscal Policy instruments</p>	
III	External sector and Nature of Reforms in India	15
	<p>Chapter 7: India’s foreign trade</p> <ul style="list-style-type: none"> • Salient features • Value, composition and direction of trade • Balance of payments • Goal of self-reliance based on import substitution and protection • Tariff policy • Exchange rate <p>Chapter 8: Post-1991 strategies</p> <ul style="list-style-type: none"> • Stabilisation and structural adjustment packages • Liberalisation Privatisation Globalisation (LPG) Model • Impact of LPG Policies on Indian Economy <p>Chapter 9: NITI Ayog</p> <ul style="list-style-type: none"> • Organization • Functions <p>Practicum: Calculation of BoP and evaluating trade policies; Assignment and group discussion on the impact of LPG Policies</p>	
<p>Suggested Readings:</p> <ol style="list-style-type: none"> 1. Dutt Ruddar and K.P.M Sundaram (2001): Indian Economy, S Chand & Co. Ltd. New Delhi. 2. Mishra S.K & V.K Puri (2001) “Indian Economy and –Its development experience”, Himalaya Publishing House. 3. Kapila Uma: Indian Economy: Policies and Performances, Academic Foundation 4. Bardhan, P.K. (9th Edition) (1999), The Political Economy of Development in India, Oxford University Press, New Delhi. 5. Jalan, B. (1996), India’s Economic Policy- Preparing for the Twenty First Century, Viking, New Delhi. 		

Pedagogy

Formative Assessment	
Assessment Occasion/ type	Weightage in Marks
Internal Test	50%
Assignment	20%
Presentation/Project	30%
Total	100

Date

Course Co-ordinator

Subject Committee Chairperson

Semester 1

Course Title: OEC 1.5: Development Studies (OEC)	
Total Contact Hours: 45	Course Credits: 3
Formative Assessment Marks: 40	Duration of ESA/Exam: 2 Hrs
Model Syllabus Authors:	Summative Assessment Marks: 60

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

Course Outcomes (COs):

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

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

Unit	Description	Hrs
I	Development: Meaning and Current Challenges	9
	Chapter 1: Meaning of Development <ul style="list-style-type: none"> • The concept of development, • Growth and Development • Transition from quantitative to qualitative indices 	3
	Chapter 2: Modern economic growth <ul style="list-style-type: none"> • Characteristics of modern economic growth • Regional and global disparities • Common characteristics and dissimilarities among developing countries. 	3
	Chapter 3: Current Development Challenges <ul style="list-style-type: none"> • Inequality • Migration • Conflicts Practicum:	3
II	Approaches to Development	12
	Chapter 4: Development Ethics <ul style="list-style-type: none"> • Concept and meaning • Principles and importance of Development Ethics 	2
	Chapter 5: Assessing Development <ul style="list-style-type: none"> • Per capita income • PQLI • Choice and Capabilities • HDI 	4
	Chapter 6: Approaches of Development <ul style="list-style-type: none"> • Adam Smith 	6

	<ul style="list-style-type: none"> • Marx • Schumpeter • Structuralist approach • Neo-liberalism, IMF and structural adjustment • Capabilities Approach Practicum:	
III	Theories and Current Issues in Development	21
	Chapter 7: Theories of Development <ul style="list-style-type: none"> • 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 <ul style="list-style-type: none"> • Genesis and Spread • International specialization of Labour/Industry • Industrial Labour • ILO and its activities to promote labour standards Chapter 9: Environment and development <ul style="list-style-type: none"> • Increasing degradation of natural environment – water and air pollution and deforestation • Depletion of global commons • Sustainable development - concept and measures • SDGs • Climate Change – Causes, Impact, Measures of Mitigation and Adaptations Practicum:	6 5 10
Suggested Readings: <ol style="list-style-type: none"> 1. Crocker, D. (2008). Ethics and development theory-practice, Ethics of Global Development Agency, Capability, and Deliberative Democracy, 67-106 2. Des Gasper (2008), ‘Denis Goulet and the Project of Development Ethics: Development, 8, 99. 481-9, Elsevier Science, 1, pp.10-26. 3. Drèze, Jean and Amartya Sen(2002), India: Development and Participation, second edition. Oxford: Oxford University Press. 4. Gasper, D. (2004). The ethics of development: From Economism to human development. Edinburgh: Edinburgh University Press 5. Huntington, Samuel (1971), The change to change: Modernization, development and politics. Comparative Politics, 3. 6. Myrdal, Gunnar. (1974), “What is Development?” Journal of Economic Issues 8(4):729-736. 7. Peet, Richard with Elaine Hartwick (2009), Theories of Development: Contentions, Arguments, Alternatives (2nd edition). New York: Guilford. 8. Sen, Amartya (1999) Development as Freedom. New York: Anchor Books. 		

Pedagogy

Formative Assessment	
Assessment Occasion/ type	Weightage in Marks
Internal Test	50%
Assignment	20%
Presentation/Project	30%
Total	100

Date

Course Co-ordinator

Subject Committee Chairperson

Semester II

Course Title: DSC 2.2: Basic Economics II	
Total Contact Hours: 45	Course Credits: 3
Formative Assessment Marks: 30	Duration of ESA/Exam: 2 Hrs
Model Syllabus Authors:	Summative Assessment Marks: 70

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

Course Outcomes (COs):

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

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

Unit	Description	Hrs
I	Macroeconomic Concepts and Relationships	12
	Chapter 1: Macroeconomy <ul style="list-style-type: none"> • Introduction to National Income Accounting • Concepts of GDP, GNP and national income • Approaches to calculating GDP, personal income, Nominal and real GDP • Limitations of the GDP concept 	5
	Chapter 2: Monetary economy <ul style="list-style-type: none"> • Characteristics • The demand for money • The supply of money and overall liquidity position • credit creation 	4
	Chapter 3: Inflation <ul style="list-style-type: none"> • Meaning and causes of inflation • Calculating inflation rate • Impact of inflation 	3
	Practicum: 1. Understanding the relationships between various NI concepts used in India's NI accounting; 2. Estimating the components of money supply and interpreting the various price indices	
II	Macroeconomic Challenges and Policies	12
	Chapter 4: Macroeconomic challenges <ul style="list-style-type: none"> • Unemployment • Economic Growth • Business Cycles 	3
	Chapter 5: Monetary Policy <ul style="list-style-type: none"> • Objectives • Instruments 	3
	Chapter 6: Fiscal Policy <ul style="list-style-type: none"> • Public finance vs. Private finance • Fiscal functions and role of government: allocation, distribution and stabilisation • Characteristics of public goods, 	6

	<ul style="list-style-type: none"> Rationale of public provision of public goods Practicum: 1. Reviewing the monetary policy of RBI; 3. A project to identify the nature and causes of poverty and the latest central budget	
III	Public Policy and Globalization	18
	Chapter 7: Poverty and public policy <ul style="list-style-type: none"> Meaning, measurement and types of poverty Poverty alleviation strategies in India Chapter 8: International Trade <ul style="list-style-type: none"> The economic basis for trade—absolute advantage and comparative advantage, terms of trade exchange rates Trade Barriers-tariffs, subsidies and quotas Balance of Payments-The current and capital account	6
	Chapter 9: Globalization <ul style="list-style-type: none"> Meaning Importance Pros and cons of Globalization Practicum: Survey on identification of poor; Calculating the components of BoP of India	9
		3
References (indicative) <ol style="list-style-type: none"> Cohen, A.J. (2020). <i>Macroeconomics for Life: Smart Choices for All? + MyLab Economics with Pearson eText</i> (updated 2nd ed.). Toronto, ON: Pearson Canada Inc. Type: Textbook: ISBN: 9780136716532 Cohen, A.J. (2015). <i>Microeconomics for Life: Smart Choices for You + MyLab Economics with Pearson eText</i> (2nd ed.). Toronto, ON: Pearson Canada Inc. Type: Textbook: ISBN: 9780133899368 Case Karl E. and Fair Ray C. Principles of Economics, Pearson Education Asia, 2014. Mankiw N. Gregory. Principles of Economics, Thomson, 2013. Stiglitz J.E. and Walsh C.E. Principles of Economics, W.W. Norton & Co, New York, 2011. 		

Pedagogy

Formative Assessment	
Assessment Occasion/ type	Weightage in Marks
Internal Test	50%
Assignment	20%
Presentation/Project	30%
Total	100

Date

Course Co-ordinator

Subject Committee Chairperson

Semester II

Course Title: DSC 2.3: Karnataka Economy	
Total Contact Hours: 45	Course Credits: 3
Formative Assessment Marks: 40	Duration of ESA/Exam: 2 Hrs
Model Syllabus Authors:	Summative Assessment Marks: 60

Course Pre-requisite(s):

Course Outcomes (COs):

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

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

Unit	Description	Hours
I	Characteristics of Karnataka Economy Chapter 1: State Income <ul style="list-style-type: none"> • State Domestic Product and PCI • Measures to redress regional imbalances Chapter 2: Human and Natural Resources <ul style="list-style-type: none"> • Population • Human Development Index • Poverty and Unemployment– Anti-Poverty and Employment generation Programmes • Functioning of Panchayat Raj Institutions Chapter 3: Natural Resources in Karnataka <ul style="list-style-type: none"> • Land, Water, Forest and mineral resources in Karnataka Karnataka Sustainable Development Goals • Karnataka environmental Policy Practicum:	
II	Agriculture and Industries in Karnataka Chapter 4: Agriculture in Karnataka <ul style="list-style-type: none"> • Importance of Agriculture • Problems in Agriculture • Land Reforms • Cropping Pattern • Irrigation • Watershed Development • Dry Land Farming • Farmers Suicide – causes and solutions Chapter 5: Rural Development <ul style="list-style-type: none"> • Public Distribution System • Rural Development Programmes. Chapter 6: Industries in Karnataka	

	<ul style="list-style-type: none"> • Major Industries in Karnataka - Problems and Prospects • MSMEs - Problems and Measures • IT Industries in Karnataka • Industrial Finance in Karnataka • Industrial Policy of Karnataka Practicum:	
III	Infrastructure and Finances	
	Chapter 7: Infrastructure in Karnataka <ul style="list-style-type: none"> • Transportation: Road, Rail, Water and Air Transport • Information and Communication Technology facilities; Chapter 8: Social Infrastructure <ul style="list-style-type: none"> • Drinking Water, Sanitation • Housing • Health and Education • Social Security in Karnataka Chapter 9: State Finance <ul style="list-style-type: none"> • Sources of Revenue: Direct and Indirect Taxes • GST – Impact and Collections • Sharing of Central Taxes and Grand-in-Aid • Expenditure Sources • States Indebtedness • State Finance Commission • State Budget Practicum:	

References (indicative)

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

Pedagogy

Formative Assessment	
Assessment Occasion/ type	Weightage in Marks
Internal Test	50%
Assignment	20%
Presentation/Project	30%
Total	100

Date

Course Co-ordinator

Subject Committee Chairperson

Semester II

Course Title: OEC 2.5: Contemporary Indian Economy	
Total Contact Hours: 45	Course Credits: 3
Formative Assessment Marks: 40	Duration of ESA/Exam: 2 Hrs
Model Syllabus Authors:	Summative Assessment Marks: 60

Course Pre-requisite(s):

Course Outcomes (COs):

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

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

Content of Course	
Unit – 1 LPG POLICIES, ECONOMIC REFORMS AND AGRICULTURE	
<p>Chapter No. 1 Recent Issues</p> <ul style="list-style-type: none"> • Genesis and Impact of LPG • India's population policy • Demographic Dividend • India's human development in global perspective <p>Chapter No. 2 Urbanization and governance</p> <ul style="list-style-type: none"> • Urbanization and Smart City Mission • Informal sector • Impact of COVID-19 Pandemic • Atma Nirbhara Bharat Abhiyan <p>Chapter No. 3 Economic Reforms and Agriculture</p> <ul style="list-style-type: none"> • Agriculture and WTO • Price policy and Subsidies • Commercialisation and Diversification • Public Distribution System • Impact of public expenditure on agricultural growth • Agrarian Crisis, Doubling Farm Incomes, MGNREGS <p>Practicum</p> <ol style="list-style-type: none"> 3. Mini-project to ascertain the impact of pandemic on lives of different sections of population 4. Field visits to understand the agrarian situation 	
Unit – 2 INDUSTRY, BUSINESS, FISCAL POLICY	
<p>Chapter No. 4. Industrial Policy</p> <ul style="list-style-type: none"> • New Industrial Policy and changes • Public sector reform • Privatisation and Disinvestment • Competition Policy 	

<p>Chapter No. 5. Business</p> <ul style="list-style-type: none"> • Ease of Doing Business • Performance of MSMEs • Role of MNC's in Industrial Development • Make in India, development of economic and social infrastructure • National Monetization Pipeline <p>(The teacher should include the latest policy of the government)</p> <p>Chapter No. 6. Fiscal Policy</p> <ul style="list-style-type: none"> • Tax, Expenditure, Budgetary deficits • Pension and Fiscal Reforms • Public debt management and reforms • Fiscal Responsibility and Budget Management (FRBM) Act • GST, Fiscal Federalism and Fiscal Consolidation • Recommendations of the Current Finance Commission <p>Practicum: Mini-projects to assess the business climate</p>	
<p>Unit – 3 MONETARY POLICY, FOREIGN TRADE AND INVESTMENT</p>	
<p>Chapter No. 7 Monetary Policy</p> <ul style="list-style-type: none"> • Organisation of India's money market • Financial sector reforms • Interest rate policy • Review of monetary policy of RBI <p>Chapter No. 8. Money and Capital Markets</p> <ul style="list-style-type: none"> • Working of SEBI in India • Changing roles of the Reserve Bank of India • Commercial banks, • Development Finance Institutions • Foreign banks and Non-banking financial institutions • Analysis of price behaviour in India, Anti-inflationary measures • Demonetization and its impact <p>Chapter No. 9. Foreign Trade and Investment</p> <ul style="list-style-type: none"> • India's foreign trade • India Balance of payment since 1991 • New Exchange Rate Regime: Partial and full convertibility • Capital account convertibility • FDI – Trends and Patterns • New EXIM policy, WTO and India • Bilateral and Multilateral Trade Agreements and Associations <p>Practicum:</p> <ol style="list-style-type: none"> 3. Computation and analysis of Wholesale Price Index, Consumer Price Index: components and trends. 4. Group Discussions on India's trade policies and trade agreements <p>References</p> <ul style="list-style-type: none"> • Bardhan, P.K. (9th Edition) (1999), The Political Economy of Development in India, Oxford University Press, New Delhi. • Bhaduri Amit, (2015), A Model of Development By Dispossession, Fourth Foundation • Byres Terence J. (ed.), (1998), The State, Development Planning and Liberalisation 'in India, Delhi, OUP • Dutt Ruddar and K.P.M Sundaram (2001): Indian Economy, S Chand & Co. Ltd. New Delhi. 	

<ul style="list-style-type: none"> • Frankel Francine R., (2004), India's Political Economy, Delhi. OUP Jenkins Rob, 2000, Economic Reform in India, Cambridge, CUP • Jalan, B. (1996), India's Economic Policy- Preparing for the Twenty First Century, Viking, New Delhi. • Joshi Vijaya and L.M.D. Little, (1998), India's Economic Reform 1991-2001, Delhi, OUP. • Kapila Uma: Indian Economy: Policies and Performances, Academic Foundation • Mishra S.K & V.K Puri (2001) "Indian Economy and –Its development experience", Himalaya Publishing House. • Mukharji Rahul (ed.) (2007), India's Economic Transition: The Politics of Reforms, edited by Rahul Mukherji, Oxford University Press , New Delhi. • Stuart and John Harris, (2000), Reinventing India, Cambridge Polity 	
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Pedagogy

Formative Assessment	
Assessment Occasion/ type	Weightage in Marks
Internal Test	50%
Assignment	20%
Presentation/Project	30%
Total	100

Date

Course Co-ordinator

Subject Committee Chairperson

Semester II

Course Title: OEC 2.5: Sustainable Development Goals	
Total Contact Hours: 42	Course Credits: 3
Formative Assessment Marks: 40	Duration of ESA/Exam: 2 Hrs
Model Syllabus Authors:	Summative Assessment Marks: 60

Course Pre-requisite(s):

Course Outcomes (COs):

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

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

Unit	Description	Hrs
I	Environment, Development and Pollution	
	<p>Chapter 1: Meaning Characteristics of Environmental Goods and Services</p> <ul style="list-style-type: none"> • Relationship between Environment and Development • Environmental Kuznets Curve – Meaning and Evidence • Sustainable Development – Meaning and Indicators <p>Chapter 2: Resource Use and Management</p> <ul style="list-style-type: none"> • Resource Taxonomy – Renewable and nonrenewable resources • Economic Theory of Depletable Resources • Optimal Use of Renewable Resources • Resource Scarcity and Economic Growth – Limits to Growth Model • Tragedy of Commons and common property Resources • Resource Pricing and Resource Conservation <p>Chapter 3: Sustainable Development</p> <ul style="list-style-type: none"> • Definitions, Objectives and Principles • Processes and Indicators of Sustainable Development • Approaches and Strategies for Sustainable Development • Environmental accounting Measures <p>Practicum: Miniproject on impact of development on local environment</p>	
II	Sustainable Development Goals	
	<p>Chapter 4: Introduction and History</p> <ul style="list-style-type: none"> • Brundtland Committee Recommendations • Rio Summit and Agenda 21 • SDGs: Goals, Targets and Indicators <p>Chapter 5: Government and the SDGs</p> <ul style="list-style-type: none"> • Planning • Localizing the SDGs • SDG Policy Instruments • Industrial Policies and the SDGs <p>Chapter 6: Financing the SDGs</p>	

	<ul style="list-style-type: none"> • Types of financing • New financing mechanisms and global funds <p>Practicum: Assignments on Progress in attainment of various SDGs in India and her states</p>	
III	Issues in Implementing SDGs	
	<p>Chapter 7: Means to Realizing the SDGs</p> <ul style="list-style-type: none"> • Degrowth and circular economy • Sustainable production and consumption • Sustainable cities and transportation • Sustainable designs, technology, digital revolution and innovation • Renewable energy <p>Chapter 8: Implementing SDGs</p> <ul style="list-style-type: none"> • governance and policy tools • openness, participation and accountability, • effectiveness and coherence; • India's framework for sustainable development <p>Chapter 9: Other Issues</p> <ul style="list-style-type: none"> • Social business, CSOs, and operations • Development Assistance • Cross-Border Cooperation <p>Practicum: Group Discussion on case studies on sustainable practices and processes</p>	

Suggested Readings:

- Baumol, W.J. and W.E. Oates (1988): *The Theory of Environmental Policy* (2e), CUP, Cambridge.
- Bhattacharya, R.N. (Ed): *Environmental Economics: An Indian Perspective*, OUP, New Delhi.
- Dalby, Simon, et al. *Achieving the Sustainable Development Goals: Global Governance Challenges*. Routledge, 2019.
- Day, G.S., and P.J.H. Schoemaker (2011), *Innovating in uncertain markets: 10 lessons for green technologies*, MIT Sloan Management Review, 52.4: 37-45.
- Elliott, Jennifer. *An introduction to sustainable development*. Routledge, 2012.
- Gagnon, B., Leduc, R., and Savard, L., *Sustainable development in engineering: a review of principles and definition of a conceptual framework*. Working Paper 08-18, 2008.
- Hanley, Shogren and White (1997): *Environmental Economics in Theory and Practice*, Macmillan.
- Kolstad, C.D. (1999): *Environmental Economics*, OUP, ND.
- Pearce, D.W. and R. Turner (1991): *Economics of Natural Resource Use and Environment*, John Hopkins Press, Baltimore.
- Sachs, Jeffrey D. *The age of sustainable development*. Columbia University Press, 2015
- Tietenberg, T. (1994): *Environmental Economics and Policy*, Harper Collins, NY.

Pedagogy

Formative Assessment	
Assessment Occasion/ type	Weightage in Marks
Internal Test	50%
Assignment	20%
Presentation/Project	30%
Total	100

Date

Course Co-ordinator

Subject Committee Chairperson

Semester II

Course Title: OEC 2.5: Business Environment	
Total Contact Hours: 42	Course Credits: 3
Formative Assessment Marks: 40	Duration of ESA/Exam: 2 Hrs
Model Syllabus Authors:	Summative Assessment Marks: 60

Course Pre-requisite(s):

Course Outcomes (COs):

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

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

Unit	Content of Course	
I	Introduction to Business Environment	
	<p>Chapter 1: Introduction</p> <ul style="list-style-type: none"> 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. <p>Chapter 2: Economic Environment</p> <ul style="list-style-type: none"> 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). <p>Chapter 3: Global Business Environment</p> <ul style="list-style-type: none"> Meaning Globalization: Nature and Impact of globalization Challenges of international business GATT and WTO and its implications on Indian economy. <p>Practicum</p> <ol style="list-style-type: none"> Identification of the impact of business environment through surveys Group discussion on WTO and its impact on Indian business 	
II	Non-Economic Environment	
	<p>Chapter 4: Social and Cultural Environment</p> <ul style="list-style-type: none"> Business and Society Social Objectives of Business Corporate Social Responsibility Consumer Rights & Corporate Governance Business Ethics <p>Chapter 5: Technological Environment:</p> <ul style="list-style-type: none"> Meaning 	

	<ul style="list-style-type: none"> • Technological changes – R & D in India • Public and Private Investment in R and D. <p>Chapter 6: Financial Environment</p> <ul style="list-style-type: none"> • Introduction and Meaning • An Overview of Indian Financial System • Financial Institutions and their Roles • Role of Foreign Direct Investment and its impact on Indian Business <p>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.</p>	
III	Government and Business in India	
	<p>Chapter 7: Political Environment</p> <ul style="list-style-type: none"> • Introduction and Meaning • Political Environment and the Economic system • Government and Business Relationship in India • Provisions of Indian Constitution for Business <p>Chapter 8: Legal Environment of Business</p> <ul style="list-style-type: none"> • Indian Company Law • Competition policy and law • Patents & Trademarks • Industrial Policy- An overview • Labor Laws & Social Security, • Environmental Laws. <p>Chapter 9: Current Issues</p> <ul style="list-style-type: none"> • Ease of Doing Business • Performance of MSMEs • Make in India, • Development of economic and social infrastructure • National Monetization Pipeline <p>(The teacher should include the latest policy of the government)</p> <p>Practicum: Students are expected to give a report on how the economic environment has affected the performance of any five large Indian Business Houses.</p>	
	<p>REFERENCES:</p> <p>Francis Cherunilam: Business Environment, Himalaya Publishing House, Mumbai. K. V. Sivayya and VBM Das: Indian Industrial Economy, Sulthan Chand Publications, Delhi. M. Adhikari: Economic Environment of Business, Sulthan Chand and Sons, New Delhi. Raj Agarwal: Business Environment, Excel Publications, New Delhi.</p>	

Pedagogy

Formative Assessment	
Assessment Occasion/ type	Weightage in Marks
Internal Test	50%
Assignment	20%
Presentation/Project	30%
Total	100

Date

Course Co-ordinator

Subject Committee Chairperson

**SYLLABUS FOR FIRST TWO SEMESTERS OF BS.C
In ECONOMICS**

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

Course Coe: B. Sc. 1.1

Name of the Course: Microeconomics

Course Credits	Number of Hours per Week	Total No of Teaching Hours
3 Credits	3 Hours	45 Hrs
<p>Course Outcome: On Successful completion of the course, the student will be able to;</p> <ol style="list-style-type: none"> 1. Analyse the economic behaviour of the consumer and the firm 2. Explain the relationship between various variables such as Input and output, cost and output, price of the product and quantity demand and so on 3. Product and Factor pricing under different market structure 		
Unit – 1 : Introduction to Economics, Demand and Supply		
<p>Chapter-1 introduction to Economics: Nature and scope of economics, Basic Concepts in economics, Importance of study of Economics, Understanding the economy, Mankiw’s ten principles of economics</p> <p>Chapter- 2: Demand: Meaning and Determinants of Demand, the Demand Schedule, The Law of Demand Exceptions to the Law of Demand, Elasticity of Demand: Meaning- Types: Price, Income and Cross Elasticity, Measurement of Elasticity of Demand</p> <p>Chapter- 3: Supply: Concept of Supply, the Law of Supply, and Determinants of Supply.</p>		
Unit – 2 Theory of Demand and Production function		
<p>Chapter-4. Cardinal Analysis: Utility: Law of diminishing marginal utility, equi-marginal utility, consumer’s equilibrium, Consumer surplus and its application</p> <p>Chapter-5. Ordinal analysis: Meaning of Indifference curves- Indifference Schedule- Indifference Map, properties of Indifference curves Budget line-Equilibrium position, Income, Price and substitution effects -inferior goods v/s Geffen goods, Samuelson’s revealed preference theory</p> <p>Chapter-6. Production Function Production Function - The Law of Variable Proportion - the Law of Returns to Scale- Least cost combination of Inputs</p>		
Unit – 3: Cost, Revenue, Price and Output determination under different Markets		
<p>Chapter No. 7 Cost Concepts, Cost output relationship in the short-run and long-run</p> <p>Chapter No. 8. Concepts of Revenue: Total, Average and Marginal Revenue Curve</p> <p>Chapter No. 9. Price and Output determination under different market: Meaning and features of perfect competitive market, Monopoly, Monopolistic competition and oligopoly, Price and Output determination under these markets</p>		

Text Books

Ahuja H.L (2017) Advanced Economic Theory, S. Chand and Company, New Delhi.
 Koutsoyiannis A, (2008) Modern Microeconomics, Macmillan, London.

References

Dominick Salvatore (2002) Theory and Problems of Microeconomic Theory, Schaum’s Outline Series, McGraw-Hill Book Company, Singapore.
 Ferguson C.E and Maurice S. Charles, (1978) Economic Analysis-Theory and Applications, Richard D. Irwin Inc. USA.
 Hubbard R. Glenn and Anthony Patrick O’Brien, (2016) Microeconomics, Pearson Prentice Hall, New Jersey.
 Pindyck Robert S., and Daniel L. Rubinfeld, (2012) Microeconomics, Pearson Prentice Hall, New Jersey.
 Varian, H. R., “Intermediate Microeconomics: A Modern Approach”, W. W. Norton and Company, 8th Edition, 2010

Pedagogy: Classroom lecture, tutorials, Seminar and Case analysis

Formative Assessment	
Assessment Occasion/ type	Weightage in Marks
Continuous & Comprehensive Evaluation (CCE)	20 Marks
Internal Assessment Test (IAT)	20 Marks
Semester End Exam (SEE)	60 Marks
Total	100 Marks

Date

Course Co-coordinator

Subject Committee Chairperson

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

Course Coe: B. Sc. 1.2

Name of the Course: Mathematical for Economics

Course Credits	Number of Hours per Week	Total No of Teaching Hours
3 Credits	3 Hours	45 Hrs
<p>Course Outcome: On Successful completion of the course, the student will be able to;</p> <ol style="list-style-type: none"> 1. Perform basic operations in Vectors and Matrix algebra. 2. Calculate limits, derivatives and integrals of functions of multiple variables. 3. Calculate Optima for constrained and unconstrained optimization problems encountered in Economics. 		
Unit – 1: Basics of Mathematical Economics, Vectors, Matrices and Their applications		15
<p>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</p>		
<p>Chapter-2 Relations and Functions: Ordered pairs, relations and functions - Meaning and types of functions- constant function, polynomial functions, rational functions and non-algebraic functions. Simultaneous Equations- Vectors-vector spaces, linear dependence</p>		
<p>Chapter-3 Matrices: Matrix Operations- Addition and Subtraction, Matrix Multiplication, Commutative, Associative and Distributive laws-Transpose - Inverse Matrix - Determinants: Properties, Rank of Matrix, Minor, Co-factor - Cramer’s Rule, Derivation and its Applications in Economics</p>		
Unit – 2: Comparative Statics and Derivatives		15
<p>Chapter- 4. Nature of Comparative Statics, Rate of Change and the Derivative -The concept of limit, limit theorems</p>		
<p>Chapter–5: Continuity and Differentiability of a function – rules of differentiation of a function, Constant Functions, Linear, Power, Sums and Differences of Functions, Product of Functions, Quotient of Functions, Chain Rule, Exponential and Logarithmic Functions</p>		
<p>Chapter - 6. Functions of Two or More Variables - Partial Derivatives, Higher Order Partial Derivatives, the Chain Rule and Total Derivatives- Maxima and Minima – One and two variables- Differential Equations- First Order Linear Differential Equations- Nonlinear First Order Differential Equations- Second Order Linear Differential Equations</p>		
Unit – 3: Integration and Optimization Techniques		15
<p>Chapter - 7 Concept of Integration -Rules of Integration – Definite Integrals – Area and summation – Indefinite Integration.</p>		
<p>Chapter - 8. Applications integrations in Economic Analysis-Consumers Surplus- Producers surplus-Obtaining primitive function from marginal function</p>		

Chapter - 9. Concept of optimisation - Unconstrained Optimization - Lagrangian Multiplier, Constrained Optimization.	
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Text Books

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

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

References

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

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

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

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

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

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

Pedagogy: Classroom lecture, tutorials, Problem solving exercise

Formative Assessment	
Assessment Occasion/ type	Weightage in Marks
Continuous & Comprehensive Evaluation (CCE)	20 Marks
Internal Assessment Test (IAT)	20 Marks
Semester End Exam (SEE)	60 Marks
Total	100 Marks

Date

Course Co-coordinator

Subject Committee Chairperson

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

Course Coe: B. Sc. 2.1

Name of the Course: Macroeconomics

Course Credits	Number of Hours per Week	Total No of Teaching Hours
3 Credits	3 Hours	45 Hrs
<p>Course Outcome: On Successful completion of the course, the student will be able to;</p> <ol style="list-style-type: none"> 1. Explain the concept of National Income and methods of its estimation 2. Analyse the relationship between Macroeconomic variables 3. Understand the determination of income and employment under Classical and Keynesian framework 		
Unit – 1: Introduction to Macroeconomics and National Income accounting		15
<p>Chapter-1: Introduction to Macroeconomics: Nature of Macroeconomics and its significance, Indicators of Macro Economic Activity - Key Concepts: Stock and flow variables.</p>		
<p>Chapter-2 Building blocks of Macroeconomic Analysis: Aggregate Demand (AD) curve, Aggregate Supply (AS) curve, Sources of shift in AD an AS, Equilibrium in National Income and Price level, Unemployment and National Income, Inflation and Unemployment, Circular flow of Income, Goods market and Money Market</p>		
<p>Chapter-3 National Income Accounting: Measurement of Macro Variables and Economic Performance: National Income Accounting - <i>Important Concepts:</i> GNP, GDP, NNP, NDP, NI, PI, DPI- Real GDP versus Nominal GDP- GDP deflator- <i>Method of estimating National Income-</i> Expenditure Method- Income method-Value added or Net Product method- Difficulties in National Income Accounting- Trends in GDP in India -GNP and Quality of Life - Net Economic Welfare - Green Income.</p>		
Unit – 2: Classical and Keynesian Macroeconomics		15
<p>Chapter- 4. Classical Theory: Introduction to classical theory of employment - Basic Assumptions of the Classical School- Say’s law of Market- Determinants of Output, Employment, Savings, Investment, Wages, Prices, Interest Rate - Equilibrium Output and Employment-Implications of Classical Full-Employment Model-Critical Evaluation.</p>		
<p>Chapter - 5. Keynesian Macroeconomics: Principle of effective demand- Keynesian theory of output, income and employment- Equilibrium Income and Output in Simple Two Sector Model, Three Sector & Four Sector Models</p>		
<p>Chapter- 6: Keyes Psychological law of consumption- An Overview of Post Keynesian theories of consumption: absolute income, relative income, permanent income & life cycle hypothesis- Multiplier and Accelerator Analysis -Marginal Efficiency of Capital- Relevance and Critique of Keynesian Macroeconomics</p>		
Unit – 3 Recent Debates in Macroeconomics		15

Chapter - 7 Supply side Economics	4
Chapter - 8. Money market and Goods market equilibrium-IS-LM model-Business cycle- Concept and theories	5
Chapter - 9. Macroeconomic policies; Monetary Policy and Fiscal Policy-Relative effectiveness of monetary and fiscal policy	5

Text Books

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

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

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

References

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

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

D'Souza E., "Macroeconomics", Pearson Education, 2009

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

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

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

Pedagogy : Classroom lecture, tutorials, Seminar and Case analysis

Formative Assessment	
Assessment Occasion/ type	Weightage in Marks
Continuous & Comprehensive Evaluation (CCE)	20 Marks
Internal Assessment Test (IAT)	20 Marks
Semester End Exam (SEE)	60 Marks
Total	100 Marks

Date

Course Co-coordinator

Subject Committee Chairperson

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

Course Coe: B. Sc. 2.2

Name of the Course: Statistics for Economics

Course Credits	Number of Hours per Week	Total No of Teaching Hours
3 Credits	3 Hours	45 Hrs
<p>Course Outcome: On Successful completion of the course, the student will be able to;</p> <ol style="list-style-type: none"> 1. Calculate basic descriptive and inferential statistics. 2. Interpret descriptive and inferential statistics. 3. Explain the process of hypothesis testing 		
Unit – 1: Basics of Statistics for economics, Measures of central tendency and dispersion		15
<p>Chapter-1 Basics of Statistics for Economics: Why Study Statistics - Importance of Statistics in Economics- Descriptive and Inferential statistics -Data - Elements, Variables, and Observations, Scales of Measurement - Qualitative and Quantitative Data - Cross-Sectional and Time Series data- Data sources - Computers and Statistical Analysis</p>		
<p>Chapter-2 Measures of Central Tendency: Arithmetic mean, median, mode, Geometric mean and Harmonic mean measurement and applications in Economics</p>		
<p>Chapter-3 Measures of dispersion- Meaning and significance of measure of dispersion -Measurement and applications of Range , quartile deviation, mean deviation , standard deviation , variance and coefficient of variation</p>		
Unit – 2 Correlation, Regression, Time Series Analysis and Index Numbers		15
<p>Chapter- 4. Correlation and Regression: Meaning and types of correlation, methods of computation of correlation coefficient –Karl Pearson’s method, Spearman’s rank correlation method- Regression–meaning and importance of regression analysis, simple regression lines and equations and forecasting (two variables only)</p>		
<p>Chapter - 5. Time Series: Nature and Decomposition of Time Series - Analysis of Trend - Moving Average Method, Least-Square Method</p>		
<p>Chapter - 6. Index Numbers: Nature and Purpose of Index Numbers - Types of Index Numbers: Price Index - Quantity Index, Link and Chain Index - Simple and Aggregate Index Numbers -Laspyre’s Index, Paasche’s Index, Marshall and Edgeworth's Index - Fisher’s Index – Time- Reversal and Factor Reversal Tests-Deflation and Splicing of Index Numbers - Problems in the Construction of Index Numbers - Limitation of Index Numbers.</p>		
Unit - 3 Introduction to Probability Distributions and Hypothesis Testing		15
<p>Chapter - 7 Probability: Basic Concepts- Properties of Probability- Expected Values, Conditional Probability Random Variables: Discrete and Continuous</p>		
<p>Chapter - 8. Probability Distributions - Probability Density Functions and Cumulative Distribution Functions – Expected values and Moments - The</p>		

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

Text Books

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

References

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

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

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

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

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

Pedagogy: Classroom lecture, tutorials, Problem solving exercise

Formative Assessment	
Assessment Occasion/ type	Weightage in Marks
Continuous & Comprehensive Evaluation (CCE)	20 Marks
Internal Assessment Test (IAT)	20 Marks
Semester End Exam (SEE)	60 Marks
Total	100 Marks

Date

Course Co-coordinator

Subject Committee Chairperson

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

Course Coe: B. Sc. 1.7.3 (OE)

Name of the Course: Managerial for Economics

Course Credits	Number of Hours per Week	Total No of Teaching Hours
3 Credits	3 Hours	45 Hrs
<p>Course Outcome: On Successful completion of the course, the student will be able to;</p> <ol style="list-style-type: none"> 1. Forecast the demand for goods and services 2. Analyse the efficiency of resource use in the production 3. Understand the determination of price and output under different market besides the methods of pricing in practice 		
Content of Course 1		45 Hrs
Unit – 1 Introduction to Managerial economics, Demand analysis and Forecasting		15
<p>Chapter-1: Meaning, nature and scope of Managerial Economics- Organisation of business firms- General Objectives of business firms</p> <p>Chapter-2: Application of Basic Economic Principles to Managerial Problems: Incremental, Discounting, Time Perspective, Opportunity Cost and Equi-Marginal Principle</p> <p>Chapter-3: Demand and its determinants- Elasticity of demand; Meaning, types and determinants-Meaning and Objective Demand Forecasting - Methods of demand forecasting and their usefulness and limitations</p>		
Unit – 2 : Production Analysis, Cost Analysis and Determination of price		15
<p>Chapter- 4.: Managerial applications of production function- Laws of returns and their applications -Least cost combinations of inputs</p> <p>Chapter - 5. Cost concepts and cost function- Cost-output relationship and its usefulness in production decision</p> <p>Chapter - 6. Price and output determination in various markets; Perfect competition, monopoly, monopolistic competition and oligopoly</p>		
Unit – 3: Pricing Methods in Practice, Profit Management and Capital Budgeting		15
<p>Chapter – 7: Pricing Methods in Practices: Specific Pricing Problems - Popular Pricing Practices: Cost-Oriented Pricing, Cost-Plus Pricing and Other Price Determinants, Peak - Load Pricing, Price over the Life Cycle of the Product, Penetration Price - Pricing of Multiple Products</p> <p>Chapter – 8: Profit Analysis: Meaning of Profit - Accounting Profit and Economic Profit- Break-Even Analysis - Problems, Break-even Quantity, Break-Even Sales - Targeted Profit, Safety Margin.</p> <p>Chapter – 9: Capital Budgeting: Meaning and Importance - Techniques: Payback Period and Net Present Value (NPV) Method.</p>		

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Text Books

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

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

References

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

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

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

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

Pedagogy: Classroom lecture, tutorials, Seminar and Case analysis

Formative Assessment	
Assessment Occasion/ type	Weightage in Marks
Continuous & Comprehensive Evaluation (CCE)	20 Marks
Internal Assessment Test (IAT)	20 Marks
Semester End Exam (SEE)	60 Marks
Total	100 Marks

Date

Course Co-coordinator

Subject Committee Chairperson