



DAVANGERE UNIVERSITY

**Syllabus for III & IV Semester B.A. (Basic / Hons) (UG) / B. Sc.
(Basic/Hons), With Effect from Academic Year 2021-22
(Framed According to NEP-2020)**

**Approved by BOS in Economics on 29.08.2022
Approved by Faculty of Arts 07.10.2022**

**Department of Studies in Economics
Davangere University,
Shivagangotri,
Davangere - 577 007**

**Syllabus of
BA (Basic)/
BA Honours
in
Economics
3rd & 4th Semester**


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**Program Structure for Four Year under Graduate Program in
Economics (BA (Basic) / BA (Hons.))**

Sem	Paper Code	Title of the Course	Category of Courses	Teaching Hours per Week (L + T + P)	SEE	CIE	Total Marks	Credits
I Semester	DSC-1.1	Basic Economics –I	DSC	3+0+0	60	40	100	3
	DSC-1.2	Contemporary Indian Economy	DSC	3+0+0	60	40	100	3
	Choose any one of the Following							
	OEC-1.1	Kautilya's Arthshastra	OEC	3+0+0	60	40	100	3
	OEC-1.2	Pre-reforms Indian Economy						
	OEC-1.3	Development Studies						
	Total							9
II Semester	DSC 2.1	Basic Economics–II	DSC	3+0+0	60	40	100	3
	DSC-2.2	Karnataka Economy	DSC	3+0+0	60	40	100	3
	Choose any one of the Following							
	OEC-2.1	Contemporary Indian Economy	OEC	3+0+0	60	40	100	3
	OEC-2.2	Sustainable Development						
	OEC-2.3	Economics of Business Environment						
	Total							9


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**Program Structure for Four Year under Graduate Program in
Economics (BA (Basic) / BA (Hons.))**

Sem	Paper Code	Title of the Course	Category of Courses	Teaching Hours per Week (L+T+P)	SEE	CIE	Total Marks	Credits
III Semester	DSC-3.1	Microeconomics	DSC	3+0+0	60	40	100	3
	DSC-3.2	Mathematical Economics	DSC	3+0+0	60	40	100	3
	Choose any one of the Following							
	OEC-3.1	Rural Economics	OEC	3+0+0	60	40	100	3
	OEC-3.2	Economics of Insurance						
	OEC-3.3	Economics of Human Development						
	Total							9
IV Semester	DSC 4.1	Macroeconomics	DSC	3+0+0	60	40	100	3
	DSC-4.2	Statistics for Economics	DSC	3+0+0	60	40	100	3
	Choose any one of the Following							
	OEC 4.1	Karnataka Economy	OEC	3+0+0	60	40	100	3
	OEC-4.2	Entrepreneurial Economics						
	OEC-4.3	Economics of Law						
	OEC-4.4	Economics of GST						
	Total							9

Formative Assessment for C1 & C2		
Assessment Occasion/ type	Marks	
	C1	C2
Internal Test	10	10
Case study / Assignment / Field work / Project work	10	
Seminar	05	
Attendance / Classroom Participation	05	
Total	40 Marks	
Formative Assessment as per NEP guidelines are compulsory		

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

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

Section-A

1. Answer any Five of the following questions	(5 X 5 =25)
1	
2	
3	
4	
5	
6	
7	
8	

Section-B

Answer any TWO of the following questions.	(2X10=20)
9	
10	
11	
12	

Section-C

Answer any ONE of the following questions.	(1X15=15)
13	
14	


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Program Name	BA in Economics	Semester	Third Semester
Course Title	Microeconomics		
Course Code:	DSC-3.1	No. of Credits	3
Contact hours	48 Hours	Duration of SEA/Exam	2 hours
Formative Assessment Marks	40	Summative Assessment Marks	60

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

CO1. Understand introductory economic concepts.

CO2. Recognize basic supply and demand analysis.

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

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

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

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

Contents	48 Hrs
Unit-1: Basics of Microeconomics	18
Chapter:1 Exploring Microeconomics: Nature and scope of economics – opportunity cost, scarcity, production possibility frontier – Market system as a way to organise economic activities, welfare state	5
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	5
Chapter 3 Theories of Demand: Diminishing Marginal Utility; Indifference curves – Meaning and Properties; budget constraint; Satisfaction Maximization; income and substitution effects; choice between leisure and consumption.	8
Practicum: ➤ Reading and working with graphs ➤ Estimation of elasticity and discussing its applications; solving problems to estimate the equilibrium price and quantity	
Unit -2: Production and Cost Analysis	12
Chapter 4: The Firms: Production Function; Law of Variable Proportions; Returns to Scale; Features of Cobb-Douglas Production Function; Isoquant and iso-cost lines, cost minimizing equilibrium condition;	8
Chapter 5: Cost of Production: Meaning of Cost, Types of Cost;	1

Chapter 6: Cost-Output Relationship: Cost-Output relationship in Short run and long run costs.	3
Practicum: ➤ Analysing reasons for diminishing marginal returns ➤ Examining the relationship between cost and output/ Deriving cost functions from output functions	
Unit -4: Pricing in Different Market and Welfare Economics	18
Chapter 7: The Markets: Concept of firm and Industry; 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. Pricing Policies in Practice	8
Chapter 8: 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	6
Chapter 9: Welfare Economics: Meaning of Welfare; Pigou's Welfare Economics; Compensation principle; Impediments to attain Maximum Social Welfare; Externalities, Market Failure	4
Practicum: ➤ Conducting Market Survey to identify the nature and features of markets for different goods/services ➤ Understanding distribution of national-income as factor incomes ➤ Practicum: Examining day to day externalities and proposing solutions to them	

Pedagogy: Classroom lecture, tutorials, Problem solving exercise

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

Program Name	BA in Economics	Semester	Third Semester
Course Title	Mathematics for Economics		
Course Code:	DSC-3.2	No. of Credits	3
Contact hours	48 Hours	Duration of SEA/Exam	2 Hours
Formative Assessment Marks	40	Summative Assessment Marks	60

Course Outcomes (COs): After the successful completion of the course, the student will be able to: CO1. Perform basic operations in Sets and functions and Matrix algebra. CO2. Calculate limits, derivatives of Economic functions and identify the nature of relationship. CO3. Calculate maxima and minima of function	
Contents	42 Hrs
Unit-1: Preliminaries	14 Hrs
Chapter:1 - Introduction to Mathematical Economics: Nature and scope of mathematical economics- Role of mathematics in economic theory	4
Chapter:2 - Number system and Set theory: Types of Numbers: Natural Number, Real number, integers, Irrational Number, Complex Number. Concepts of sets- meaning –types union of sets – interaction of sets.	5
Chapter:3 - Functions: Meaning of function- Types of functions: Linear and Non-linear Functions; Quadratic, Polynomial, Logarithmic and Exponential functions-	5
Unit -2: Economic Functions, their Application and Matrices	16 Hrs
Chapter 4 Economic Functions: Demand Function, Supply function, Production function, Cost, Revenue and Profit function, Consumption function	5
Chapter-5: Applications of Functions: Graph of Economic Functions, Market equilibrium; Equilibrium price and Quantity, Impact of specific tax and subsidy on market equilibrium	5
Chapter-6: Matrices: Definition and Types of Matrices- Matrix Operations: Addition, Subtraction and Multiplication, Transpose of a Matrix, Determinants of Matrix- Cramer's Rule	6


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Unit -3: Differential Calculus and Its Applications	18 Hrs
Chapter 7- Limits: Limits of functions, differentiation, rules of differentiation.	5
Chapter 8 Derivatives of Economic functions: Derivation of Marginal functions from total function-Marginal Production, Marginal cost, Marginal Revenue, Marginal Profit.	7
Chapter 9 - Applications of Derivatives and Higher order derivatives: Elasticity of Demand- Second order derivatives- Maxima and Minima of Economic function.	6

Pedagogy: Classroom lecture, tutorials, Problem solving exercise

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


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Program Name	BA in Economics	Semester	Third Semester
Course Title	Rural Economics		
Course Code	OE-3.1	No. of Credits	3
Contact hours	48 Hours	Duration of SEA/Exam	2 Hours
Formative Assessment Marks	40	Summative Assessment Marks	60

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

- CO1. To Understand the basics of rural development,
- CO2. To study the characteristics, problems, and programmes of rural redevelopment
- CO3. To study the trends and patterns of economic activities in rural areas
- CO4. To study the role of infrastructural facilities and governance in rural development
- CO5. To enable the students to know about significance of rural enterprises and agricultural allied activities.

Contents	48 Hrs
Unit 1:	16 Hrs
Chapter:1 - Introduction to Rural Economy Meaning and Objectives of Rural economy Characteristics of Rural Economy Indicators of Rural Development Concepts of inclusive and sustainable development	6
Chapter:2 - Approaches to Rural Development Gandhian Model Community Development Approach, Minimum Needs Approach, Integrated Rural Development and Inclusive Growth Approach.	5
Chapter:3 - Poverty and Unemployment in Rural India Meaning and Measurement of Poverty Causes of Poverty Farm and Non-farm employment Measurement and Types employment Review of Poverty Alleviation and Employment Generation Programmes in India.	5


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Practicum: <ul style="list-style-type: none"> • Field visit to nearby village and study the poverty situation • Field visit to village and study the employment pattern • Undertake evaluation study on employment generation programmes and prepare an assignment. 	
Unit -2:	16 Hrs
Chapter 4- Rural Enterprises Meaning and Importance, Classification of MSME Progress and Problems of MSME Khadi and Village Industries	5
Chapter-5: Rural Banking and Finance Credit Co-operative Societies Regional Rural Banks Role of NABARD Microfinance Institutions	5
Chapter-6: Rural Infrastructure Educational and Health Infrastructure Housing and Sanitation Drinking Water Supply Rural Transport and Communication Rural Electrification	6
Practicum: <ul style="list-style-type: none"> • Write an assignment on Rural infrastructure • Write a small report on Rural Industry 	
Unit -3:	16 Hrs
Chapter 7- Rural Development Programmes Wage Employment Programmes Self-employment and Entrepreneurship Development Programmes Rural Housing Programmes Rural Sanitation Programmes	6


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

Pedagogy: Classroom lecture, tutorials, Problem solving exercise

References	
1	Chambers, R. (1983): Rural Development: Putting the Last First, Longman, Harlow.
2	Dandekar, V.M. and N. Rath (1971): Poverty in India, GIPE, Pune.
3	Dantwala, M. L. (1973): Poverty in India: Then and Now, 1870-1970, Macmillan, Bombay.
4	Gupta. K .R. (Ed) (2003): Rural Development in India, Atlantic Publishers and Distributors, New Delhi.
5	Jain, Gopal Lal (1997). Rural Development, Mangal Deep Publications, Jaipur,
6	Singh, Katar (1986): Rural Development: Principles, Policies and Management, Sage Publications, New Delhi, (Second Edition).
7	Karalay, G. N. (2005): Integrated Approach to Rural Development: Policies, Programmes and Strategies, Concept Publishing Company, New Delhi.
8	Maheshwari, S. R. (1985): Rural Development in India, Sage, Publications New Delhi.
9	Satya Sundaram, I. (1997): Rural Development, Himalaya Publishing House, Delhi.
10	Mehta, Shiv R. (1984): Rural Development Policies and Programmes, Sage Publications, New Delhi.
11	Tyagi, B. P. (1998): Agricultural Economics and Rural Development, Jai Prakash Math and Co., Meerut.
12	Somashekar Ne. Thi. (2022) ಗ್ರಾಮ ಮಹಿಳಾ ಅಭಿವೃದ್ಧಿ , Siddalingeshwara publication, Kalburgi.
13	H. R. Krishnaiah Gowda (2022) ಗ್ರಾಮ ಮಹಿಳಾ ಅಭಿವೃದ್ಧಿ , Mysore book house publication, Mysore.

Program Name	BA in Economics	Semester	Third Semester
Course Title	Economics of Insurance		
Course Code:	OE-3.2	No. of Credits	3
Contact hours	48 Hours	Duration of SEA/Exam	2 Hours
Formative Assessment Marks	40	Summative Assessment Marks	60

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

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

Contents	48 Hrs
Unit-1: Introduction to Economics of Insurance	16
Chapter:1 - Fundamentals of Economics of insurance <ul style="list-style-type: none"> ➤ Definition of insurance ➤ Scope of economic of insurance ➤ Importance of insurance 	
Chapter:2 - The conceptual framework <ul style="list-style-type: none"> ➤ Brief history of insurance ➤ Perils and risks in insurance, Classification of risks hazards ➤ How insurance works ➤ Classes of insurance and assumptions 	
Chapter:3 - Type of Insurance <ul style="list-style-type: none"> ➤ Risk pooling and risk transfer in insurance ➤ Social vs private insurance ➤ Life vs non-life insurance 	
Unit -2: Insurance Planning	16
Chapter 4- Types of Insurance Planning <ul style="list-style-type: none"> ➤ Wealth accumulation plan lifecycle planning ➤ Planning for wealth accumulation ➤ Tax advantage and tax non-advantage 	


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Chapter-5: Retirement Planning <ul style="list-style-type: none"> ➤ Essential of individual retirement planning ➤ Investing pension plan, basic principles of pension plans ➤ Pension plans in India 	
Chapter-6: General Insurance Structure <ul style="list-style-type: none"> ➤ General Insurance, concept of General Insurance ➤ Types of General Insurance, Marine Insurance, Motors Insurance, Agricultural Insurance ➤ Fire Insurance, Personal Accident Insurance 	
Unit -3: personal insurance / Health Insurance	16
Chapter 7- Essential of Life and Health Insurance <ul style="list-style-type: none"> ➤ Fundamentals of Life and Health Insurance, functions of Life and Health Insurance ➤ Health Insurance and Economic Development, Insurance and Farmer Security 	
Chapter 8 - Insurance Documentation <ul style="list-style-type: none"> ➤ Health Insurance products, Health Insurance underwriting ➤ Health Insurance claims 	
Chapter 9 - Insurance Legislation <ul style="list-style-type: none"> ➤ The insurance act, 1938- Registration- Accounts and Returns ➤ Investments -Limitation on expense of Management ➤ Regulation of Insurance, Insurance regulation in India, role and need of regulation, history of insurance regulation in India ➤ Insurance Reforms Development Authority (IRDA), performance of IRDA ➤ Indian Insurance in global platform, future potential in Indian Insurance Business 	

Pedagogy: Classroom lecture, tutorials, Problem solving exercise

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

Program Name	BA in Economics		Semester	Third Semester
Course Title	Economics of Human Development			
Course Code:	OE-3.3		No. of Credits	3
Contact hours	48 Hours		Duration of SEA/Exam	2 hours
Formative Assessment Marks	40	Summative Assessment Marks	60	
Course Outcomes (COs): After the successful completion of the course, the student will be able to: CO1. Differentiate between Human Resource Development (HRD), Human Development (HD) and HRM CO2. Understand the concepts of Human security, describe dimensions of human development, and appreciate various practices and policies of human development, HDI and India.				
Contents				48 Hrs
Unit-1: Introduction to Human Development				16 Hrs
Chapter 1: Human Growth and Human Development - Basic Needs Approach - Quality of Life Approach - Capability Approach Chapter 2: Human Resource Development (HRD), Human Resource Management (HRM). Chapter 3: Human Development: meaning and definition, importance, and objectives.				
Unit -2: Human Security, SDGs and Approaches to Human Development.				16Hrs
Chapter 4: Human Security: Economic security - Food security - Health security - Environmental security - Personal security - Community security - Political security. Chapter 5: Sustainable Development Goals (SDGs): Understanding the SDGs - Linkages between human development and the SDGs. Chapter 6: Indian Perspectives and Experience with Human Development: Approach to human development in national plans				
Unit -3: Dimensions and Measurement of Human Development				16 Hrs
Chapter 7: Dimensions of Human Development: Empowerment - meaning and usage, Cooperation - definition and brief introduction, Equity - concept and usage, Sustainability – meaning and importance, Participation - concept, different forms of participation, Human development & Productivity - factors determining productivity.				
Chapter 8: Measuring Human Development: Need for indices - limitations of per capita GDP as an indicator. Earlier indices (meaning): - Physical Quality of Life Index (PQLI), - Disability Adjusted Life Years (DALYs), - Social Capability Index. Human Development Index - HDI as compared to per capita GDP - Method of computing HDI - Critique of HDI. Other indices (meaning): Human Poverty Index (HPI)- Gender-related Development Index (GDI) - Gender Empowerment Measure (GEM). Chapter 9: Selected Issues in Human Development: Impact of Globalisation on Human Development - Trade and Human Development. - Technology and Human Development				

Pedagogy: Classroom lecture, tutorials, Problem solving exercise

References	
1	Chelliah, Raja J. and R. Sudarshan (eds.), 1999, Income Poverty and Beyond: Human Development in India, UNDP, Social Science Press, New Delhi
2	Dev, S. Mahendra, Piush Antony, V. Gayathri, and R.P. Mamgain, 2001, Social and Economic Security in India, Institute for Human Development, New Delhi
3	Government of India, National Human Development Report 2002, Planning Commission, New Delhi
4	Jaya Gopaki, R: Human Resource Development: Conceptual analysis and Strategies, Sterling Publishing Pvt. Ltd., New Delhi
5	Naresh Gupta (2019), Human Development in India Emerald Publishers.
6	Nadler, Leonard (2004). Corporate Human Resource Development, Van Nostrand Reinhold, ASTD, New York
7	Padmanabhan Nair(2007) Human Development Index: An Introduction (Economy Series), ICFAI UNIVERSITY PRESS
8	Papalia, D.E. , Olds, S.W. and Feldman, R.D. (2006). Human development. 9th Ed. New Delhi: Tata McGraw- Hill.
9	Rao, T.V and Pareek, Udai (2005) Designing and Managing Human Resource Systems, Oxford IBH Pub. Pvt.Ltd., New Delhi.
10	Rao, T.V: Readings in HRD, Oxford IBH Pub. Pvt. Ltd., New Delhi,
11	Viramani, B.R and Seth, Parmila: Evaluating Management Development, Vision Books, New Delhi.
12	Rao, T.V. (et.al)(2003) HRD in the New Economic Environment, Tata McGraw-Hill Pub.Pvt, Ltd., New Delhi ,.
13	Rao, T.V: Human Resource Development, Sage Publications, New Delhi.
14	Viramani, B.R and Rao, Kala: Economic Restructuring, Technology Transfer and Human Resource Development, Response Books, New Delhi
15	United Nations Development Programme (2005); 'Course Curriculum on Human Development An Outline', New Delhi

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

Program Name	BA in Economics	Semester	Fourth Semester
Course Title	Macroeconomics		
Course Code:	DSC-4.1	No. of Credits	3
Contact hours	48 Hours	Duration of SEA/Exam	2 Hours
Formative Assessment Marks	40	Summative Assessment Marks	60

Course Outcomes (COs): After the successful completion of the course, the student will be able to: <ul style="list-style-type: none"> CO1. Understand the Theories of National Income Accounting CO2. Explain the process of Consumption and Investment Functions CO3. Evaluate the Concept of Multiplier and Inflation 	
Content of Theory	48 Hrs
Unit-1: Theory of National Income Determination	16 Hrs
Chapter:1 Classical Framework: <ol style="list-style-type: none"> 1. Typical Features of classical theory of employment; Assumptions 2. Basis of Classical theory: <ul style="list-style-type: none"> ➤ Say's Law ➤ Pigou's wage price flexibility ➤ Fisher's Quantity theory of money ➤ Knut Wicksell's loanable funds theory ➤ Classical dichotomy and neutrality of money 3. Criticism of classical theory 	1
Chapter-2: The Keynesian Framework <ol style="list-style-type: none"> 1. Introductory: connecting growth of national income to development; why incomes of all fall or rise? Are income, output, and employment related? 2. Some Basic concepts: The idea of equilibrium and identity; ex- ante and ex-post concepts. 3. Aggregate Demand and its components <ol style="list-style-type: none"> a. Consumption function: Algebraic and Graphical explanation; Marginal and Average propensity to consume 	6



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b. Investment function; savings and investment relationship.	
4. Aggregate Supply: Meaning and graphical explanation; Effective demand	
Chapter-3: 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	3
Unit -2: Aggregate Consumption and Investment	16Hrs
Chapter-4: Theories of Determinants of Consumption: 1. Keynesian Psychological Law of consumption; determinants 2. Permanent Income hypothesis of Milton Friedman	6
Chapter-5: Investment: 1. Types of investment 2. Determinants of investment: a. rate of interest b. marginal efficiency of capital: meaning and determinants;	5
Chapter-6: Concepts of Multiplier and Accelerator 1. Investment Multiplier: Meaning and assumptions. 2. multiplier; leakages;	5
Unit -3: Monetary Economics	16Hrs
Chapter-7: Money Supply: 1. Concept of Money Supply; recent measures of money supply as suggested by RBI 2. Determinants of money supply: a. high powered money b. money multiplier 3. The reserve ratio and deposit multiplier	6
Chapter-8: Money demand: 1. Cash transactions approach (only meaning) and 2. Cambridge approach (Only Marshall's equation) 3. The liquidity preference approach of Keynes	5

Chapter-9: Inflation and Unemployment:	5
1. Phillips Curve	
2. Wage cut theory and employment	

Pedagogy: Classroom lecture, tutorials, Problem solving exercise

References	
1	Ackley, G. (1976), Macroeconomics: Theory and Policy, Macmillan Publishing Company, New York.
2	Ahuja H (2016), Macro Economics- theory and policy, S Chand and Co
3	Dwivedi DN (2016) Macro Economics: Theory and Policy, Tata McGraw-Hill
4	Heijidra, B.J. and F.V. Ploeg (2001), Foundations of Modern macroeconomics, Oxford University Press, Oxford.
5	Keynes, J.M. (1936), The General theory of Employment, Interest and Money, Macmillan, London.
6	Lucas, R. (1981), Studies in Business Cycle Theory, MIT Press, Cambridge, Massachusetts
7	Somashekar Ne. Thi., Principles of Macroeconomics, Scientific International Pvt. Ltd., Publications New Delhi
8	Somashekar Ne. Thi., ಸ್ವಮಗ್ನ ಅರಣ್ಯಶಾಸ್ತ್ರ, Siddalingeshwara prakashana, Kalburgi.
9	H. R. Krishnaiah Gowda ಸ್ವಮಗ್ನ ಅರಣ್ಯಶಾಸ್ತ್ರ, Mysore book house prakashana, Mysore.


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Program Name	BA in Economics	Semester	Fourth Semester
Course Title	Statistics for Economics		
Course Code.	DSC-4.2	No. of Credits	3
Contact hours	48 Hours	Duration of SEA/Exam	2 Hours
Formative Assessment Marks	40	Summative Assessment Marks	60

Course Outcomes (COs): After the successful completion of the course, the student will be able to:	
CO1.	Understand the nature of Data and their presentation
CO2.	Calculate Descriptive statistics like measures of central tendency and dispersion
CO3.	Apply statistical techniques like correlation and regression in Economic analysis
Content of Theory	48 Hrs
Unit-1: Preliminaries	14 Hrs
Chapter:1 Introduction to Statistics: Meaning and Importance of Statistics, Functions of Statistics, Types of Statistics. Descriptive Statistics and Inferential Statistics Variables; Qualitative Variable and Quantitative Variable	5
Chapter-2: Datatypes, Sources and Collection of Data: Qualitative and Quantitative Data - Cross Section Data, Time Series Data and Panel Data - Primary and Secondary sources of Data – Methods of Collecting Primary Data	5
Chapter-3: Tabulation and Presentation of Data: Classification and tabulation of data - Frequency distributions – Continuous and Discrete frequency distribution. Graphical presentation- Histogram- frequency polygon - Ogive Curves -Bar Diagram, Pie Chart	4
Unit -2: Measures of Central Tendency and Dispersion	16 Hrs
Chapter-4: Arithmetic Average: Definition of Central Tendency, Types of Central Tendency: Arithmetic Mean: Meaning and Properties of Arithmetic Mean – Computation of Arithmetic Mean	6
Chapter-5: Positional Averages-Median and Mode: Definition and importance of Median- Calculation of Median- Definition and importance of Mode - Calculation of Mode.	5


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Chapter-6: Dispersion: Meaning of Dispersion- Measures of Dispersion- Range- Quartile deviation- mean deviation - Standard deviation - Coefficient of Variation and Their Computation	5
Unit -3: Correlation, Regression and Time Series Analysis	18Hrs
Chapter-7: Correlation: Meaning of Correlation - Types of correlation - Methods of measuring Correlation- Karl Pearson's correlation coefficients	6
Chapter-8: Regression: Meaning and Importance of Regression - Regression Equation - Estimation of regression equation - Applications of regression equation in Economics	7
Chapter-9: Time Series Analysis: Definition of Time Series – Components of Time Series – Estimation and Forecasting of Trend	5

Pedagogy: Classroom lecture, tutorials, Problem solving exercise


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


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Program Name	BA in Economics	Semester	Fourth Semester
Course Title	Karnataka Economy		
Course Code:	OE 4.1	No. of Credits	3
Contact hours	48 Hours	Duration of SEA/Exam	2 Hours
Formative Assessment Marks	40	Summative Assessment Marks	60
Course Outcomes (COs): After the successful completion of the course, the student will be able to: CO1. Understand the nature of economic growth and problems of Karnataka state. CO2. Explain the process of structural growth in Karnataka Economy CO3. Evaluate the policies and programmes undertaken by the Govt. of Karnataka for bringing about socio-economic development			
Contents			48 Hrs
Unit-1: Karnataka Economy – An overview			15 Hrs
Chapter:1 Characteristics of Karnataka Economy <ul style="list-style-type: none"> o Features of Karnataka Economy o Trends and sectoral distribution of State Domestic Product and Per Capita Income o Measures to redress regional imbalances – Dr. Nanjundappa Committee Report, Article 371J 			5
Chapter-2: Human Resources <ul style="list-style-type: none"> o Human Resources: importance, Size and Health indicators o Human Development Index o Poverty and Unemployment– Eradication Programmes 			5
Chapter-3: Natural Resources Management <ul style="list-style-type: none"> o Natural Resources: Importance and volume of different natural resources o Karnataka Environmental Policy 			5
Practicum: conduct field visit to Forest/Reservoir/Mining and prepare the report			
Unit -2: Agriculture, Rural development, and Industries in Karnataka			19 Hrs
Chapter-4: Agriculture <ul style="list-style-type: none"> o Problems in Agriculture o Land Reforms 			7


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<ul style="list-style-type: none"> ○ Cropping Pattern ○ Irrigation: importance, important irrigation projects and watershed development projects. ○ Farmers Suicide – Causes and Solutions 	
Chapter-5: Rural Development <ul style="list-style-type: none"> ○ Public Distribution System ○ Rural Development Programmes (brief) ○ Government Schemes for Rural Women 	5
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 	7
Practicum: visit to industrial units in local area and prepare the report/Trace-out the impact of Prof. D. M. Nanjundappa Committee report	
Unit -3: Infrastructure and Finance in Karnataka	14 Hrs
Chapter-7: Economic Infrastructure <ul style="list-style-type: none"> ○ Transportation: Road, Rail, Water and Air Transport ○ Information and Communication Technology Facilities 	4
Chapter-8: Social Infrastructure <ul style="list-style-type: none"> ○ Drinking Water ○ Housing and Sanitation ○ Health and Education ○ Rural Electrification 	5
Chapter-9: State Finance <ul style="list-style-type: none"> ○ Sources of Revenue: Direct and Indirect Taxes ○ Impact of GST on Karnataka economy ○ State Expenditure ○ State Finance Commission ○ Current State Budget (Brief) 	5
Practicum: Discussion on State budget	


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Pedagogy

Note: Strictly follow the Practicum

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


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Program Name	BA in Economics	Semester	Fourth Semester
Course Title	Entrepreneurial Economics		
Course Code:	OE 4.2	No. of Credits	3
Contact hours	48 Hours	Duration of SEA/Exam	2 Hours
Formative Assessment Marks	40	Summative Assessment Marks	60


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

CO1. Start own business as Entrepreneur

CO2. Enabling the students to find career opportunities in business.

CO3. To enable the students to gain knowledge and skills needed to run a business successfully.

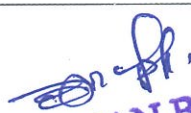
Contents	48 Hrs
Unit 1: Entrepreneur and Entrepreneurship	14 Hrs
<p>Chapter 1: Entrepreneur and Entrepreneurship – Meaning, Definitions, Evolution, types- Characteristics, qualities, functions of entrepreneur- Distinction between entrepreneur and manager, Distinction between entrepreneur and intrapreneur,</p> <p>Chapter 2: Role and importance of Entrepreneurship in economic development. Role and importance- Factors influencing entrepreneurship’ - Psychological, social, Economic and Environmental.</p> <p>Chapter 3: New generations of entrepreneurship viz. social, Health, Tourism and Women entrepreneurship; Barriers to entrepreneurship.</p>	
Unit -2: Launching Entrepreneurial Ventures	20 Hrs
<p>Chapter 4: Generation of ideas: Methods and process - sources of ideas - screening process Assessing Opportunities-Challenges, pitfalls and critical factors of new venture;</p> <p>Chapter 5: Business Plan- New Ventures: Steps involved in setting up a Business – identifying, selecting a Good Business opportunity, Market Survey and Research, Techno-Economic Feasibility Assessment.</p> <p>Chapter 6: Role of Innovation & Creativity: Innovation- Meaning and importance of innovation; Types of innovation; Sources of innovation; Conditions for effective innovation at Organization level;</p> <p>Chapter 7: Creativity: Concept and process of creativity; role and importance of creativity and mental blocks to creativity; branding, trademarks, patents, copyrights, and registered design protection-Methods of protecting innovation and creativity.</p>	


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Unit -3: Business and Entrepreneurial development	14 Hrs
<p>Chapter 8: Entrepreneur Assistance: Assistance to an entrepreneur-Industrial Park (Meaning, features, & examples)-Special Economic Zone (Meaning, features & examples)-Financial assistance by different agencies-License, Environmental Clearance, e-tender process, Excise exemptions and concession, Exemption from income tax -Quality Standards with special reference to ISO</p> <p>Chapter 9: Business and Entrepreneurial development - Determining and acquiring required resources (Financial, Physical and Human): Search for entrepreneurial capital- Debt vs. Equity; Venture Capital Market; Angel Financing and Alternative sources of finance for Entrepreneurs. Entrepreneurship development programme (EDP) in India- Objectives, Phases, and inputs of EDP; - Government initiatives for entrepreneurship – Make in India, Start-up India, MUDRA etc.</p>	

Pedagogy: Classroom lecture, tutorials, Problem solving exercise

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


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Program Name	BA in Economics	Semester	Fourth Semester
Course Title	Economics and Law		
Course Code:	OE 4.3	No. of Credits	3
Contact hours	48 Hours	Duration of SEA/Exam	2 Hours
Formative Assessment Marks	40	Summative Assessment Marks	60

Course Outcomes (COs): After the successful completion of the course, the student will be able to: CO1. Comprehend the basic economic issues affecting the economy along with the related legal provisions CO2. Acquire knowledge on the basic provisions of law relating to consumer activities, business organizations, environment CO3. To appreciate the understanding the law framework in order to frame the economics model closer to reality. CO4. To enable the students to understand the consequences of legal rules, primarily as an exercise in applied microeconomics, macroeconomics, industrial and international economics.	
Contents	48 Hrs
Unit-1: Economic analysis of law	16 Hrs
Chapter 1: Introduction to legal reasoning <ul style="list-style-type: none"> Efficiency. Markets and efficiency. Market failure. Coase theorem and related ideas, 	6
Chapter 2: welfare economics <ul style="list-style-type: none"> Compensation principles. Social welfare function. Maximization problem; 	5
Chapter 3: Economic Reasoning <ul style="list-style-type: none"> Nature of economic reasoning. Economic approach to law History Criticism. 	5
Practicum: <ol style="list-style-type: none"> Group Discussions on Economic reasoning Assignment on Coase theorem and related issues 	


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Unit -2: An Introduction to Law and Legal Institutions	12 Hrs
Chapter 4: Law: Basics <ul style="list-style-type: none"> • Definition • Territorial Nature of Law • Kinds of Law 	4
Chapter 5: General Law & Special Law <ul style="list-style-type: none"> • General Law • Special Law: Kinds of Special Law 	2
Chapter 6: Civil law and the and the Common Law Traditions <ul style="list-style-type: none"> • The institutions of the federal and State Court systems; • The nature of legal dispute, • How legal rules evolve. 	6
Practicum: <ol style="list-style-type: none"> 1. Group Discussions on Civil law and the and the Common Law Traditions 2. Assignment on the different kinds of Law 	
Unit -3: Economic Laws	20 Hrs
Chapter 6: Law Relating to Consumer Activities <ul style="list-style-type: none"> • Bargaining theory. • Economic theory of contract. • Defining tort law, • Economics of tort liability. • Definition of Consumer • Consumer protection; The Consumer Protection Act, 2019 • Consumer courts. 	7
Chapter 7: Law of Business Organizations <ul style="list-style-type: none"> • Structure of firm — Kinds, Corporations, • Capital, Shares, Debentures, Insiders' trading, • RBI, IRDA, MRTP, Role of SEBI, 	6


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Chapter 8: Macroeconomics and Law	7
<ul style="list-style-type: none"> • Inequality; Contract theory of Distributive justice • Economic and social costs of poverty • Wealth distribution by Liability Rules • Taxation and efficiency • National and global environmental problems and international environmental agreements — their legal and economic implications 	
Practicum	
<ol style="list-style-type: none"> 1. Hold the moot court in the classroom and let there be discussion consisting of at least two or more different views on National and Global environment problems and acts 2. Discuss the case studies on Economic and social costs of poverty and consumer court judgements protecting the consumers 	

Pedagogy: Classroom lecture, tutorials, Problem solving exercise

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



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Program Name	BA in Economics	Semester	Fourth Semester
Course Title	Economics of GST		
Course Code:	OE 4.4	No. of Credits	3
Contact hours	48 Hours	Duration of SEA/Exam	2 Hours
Formative Assessment Marks	40	Summative Assessment Marks	60

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

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

Contents	48 Hrs
Unit-1: Introduction to Economics of GST	18 Hrs
Chapter 1: Indirect taxes before GST <ul style="list-style-type: none"> Indirect Taxes-Meaning, Types with examples Constitutional framework of Indirect Taxes before GST (Taxation Powers of Union & State Government) Concept of VAT: Meaning, Variants and Methods; 	7
Chapter 2: Reforms in Indirect Taxes <ul style="list-style-type: none"> Major Defects in the structure of Indirect Taxes prior to GST, Need for Tax reforms Kelkar committee on Tax Reforms 	6
Chapter 3: Introduction to GST <ul style="list-style-type: none"> Rationale for GST; Constitution [101st Amendment] Act, 2016; GST- Meaning, Overview of GST Taxes subsumed under GST Territorial Jurisdiction of GST Multiple rates of GST Recent reforms in GST 	5
Practicum: <ol style="list-style-type: none"> Group Discussions on Indirect Taxes defects prior to GST Assignment on Types of Indirect Taxes prior to GST and After introduction of GST 	


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Unit – 2 Fundamentals of GST	14 Hrs
Chapter 4: GST Structure in India, <ul style="list-style-type: none"> • GST: Advantages and Disadvantages • One Nation-One Tax, • Structure of GST; • Features of Single and Dual GST Model 	5
Chapter 5: Dual GST Mode and GST Council <ul style="list-style-type: none"> • Dual GST Mode in India: 1 SGST, CGST, UTGST & IGST); • Goods and Services Tax Network [GSTN], • GST Council; Creation, Members, Decisions, Compensation to states. • GST Network, • Registration, 	5
Practicum: <ol style="list-style-type: none"> 1. Group Discussions on advantages and disadvantages of GST 2. Hold the moot of GST Council in the class room and decide the different slabs of GST 	4
Unit -3: Taxes and Duties	16 Hrs
Chapter 6: Transactions and taxes covered and not covered <ul style="list-style-type: none"> • Transactions and taxes covered under GST • Taxes and duties outside the purview of GST • Tax structure Computation • Administration of Tax on items containing alcohol, petroleum products, tobacco products • Taxation on services 	4
Chapter 7: Levy and Collection of Tax <ul style="list-style-type: none"> • Taxable event- “Supply” of Goods and Services • Place of Supply: Within state, Interstate Levy and Collection • Import and Export; Time of supply • Valuation for GST- Valuation rules, • Taxability of reimbursement of expenses; • Exemption from GST: Small supplies and Composition Scheme Classification of Goods and Services: Composite and Mixed Supplies. 	6


Chapter 8: Input Tax Credit <ul style="list-style-type: none"> • Eligible and Ineligible Input Tax Credit • Apportionments of Credit and Blocked Credits • Tax Credit in respect of Capital Goods • Recovery of Excess Tax Credit • Availability of Tax Credit in special circumstances • Transfer of Input Credit (Input Service Distribution) • Payment of Taxes; Refund; Doctrine of unjust enrichment 	6
Practicum <ol style="list-style-type: none"> 1. Simple illustrations on calculation of GST and Input Tax Credit, 2. Valuation of Supply (Numerical on valuation and calculation of tax) 3. Simple calculation Adjustment of Input tax credit against output CGST, SGST, IGST. 	

Pedagogy: Classroom lecture, tutorials, Problem solving exercise

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


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**Syllabus of
BSc Honours
in
Economics
3rd & 4th Semester**


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**Program Structure for Four Year under Graduate Program in
Economics (B SC (Basic) / B SC (Hons.))**

Sem	Paper Code	Title of the Course	Category of Courses	Teaching Hours per Week (L + T + P)	SEE	CIE	Total Marks	Credits
I Semester	DSC-1.1	Microeconomics	DSC	3+0+0	60	40	100	3
	DSC-1.2	Mathematical Economics	DSC	3+0+0	60	40	100	3
	Choose any one of the Following							
	OEC-1.1	Kautilya's Arthshastra	OEC	3+0+0	60	40	100	3
	OEC-1.2	Development Studies						
	OEC-1.3	Managerial Economics						
	Total							9
II Semester	DSC-2.1	Macroeconomics	DSC	3+0+0	60	40	100	3
	DSC-2.2	Statistics for Economics	DSC	3+0+0	60	40	100	3
	Choose any one of the Following							
	OEC-2.1	Contemporary Indian Economy	OEC	3+0+0	60	40	100	3
	OEC-2.2	Sustainable Development						
	OEC-2.3	Economics of Business Environment						
	Total							9


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**Program Structure for Four Year under Graduate Program in
Economics (BA (Basic) / BA (Hons.))**

Sem	Paper Code	Title of the Course	Category of Courses	Teaching Hours per Week (L + T + P)	SEE	CIE	Total Marks	Credits
III Semester	DSC-3.1	Factor Pricing and Welfare Economics	DSC	3+0+0	60	40	100	3
	DSC-3.2	Basic Econometrics	DSC	3+0+0	60	40	100	3
	Choose any one of the Following							
	OEC-3.1	Rural Economics	OEC	3+0+0	60	40	100	3
	OEC-3.2	Economics of Insurance						
	OEC-3.3	Economics of Human Development						
	Total							9
IV Semester	DSC-4.1	Monitory Economics	DSC	3+0+0	60	40	100	3
	DSC-4.2	Time Series Econometrics	DSC	3+0+0	60	40	100	3
	Choose any one of the Following							
	OEC-4.1	Karnataka Economy	OEC	3+0+0	60	40	100	3
	OEC-4.2	Entrepreneurial Economics						
	OEC-4.3	Economics of Law						
	OEC-4.4	Economics of GST						
	Total							9


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Program Name	BSc in Economics	Semester	Third Semester
Course Title	Factor pricing and Welfare Economics		
Course Code:	DSC-3.1	No. of Credits	3
Contact hours	48 Hours	Duration of SEA/Exam	2 hours
Formative Assessment Marks	40	Summative Assessment Marks	60

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

CO1. Understand the meaning of factor incomes and factor pricing.

CO2. Recognize basic supply and demand analysis of factors in perfect and imperfect market situations.

CO3. Understand the meaning of social welfare and means to maximize it.

CO4. Identify causes inhibiting attainment of maximum social welfare.

CO5. Explain the meaning and significance of general equilibrium

CO6. Recognize the causes of market failure.

CO7. Identify problems related to asymmetric information

CO8. Analyse the need for government intervention in the economic activities.

Contents	48 Hrs
Unit-1: Factor Pricing	20 Hrs
Chapter:1 Meaning and Significance of factor pricing - Functional (factor) and personal incomes - Demand and Supply of Factors of Production in Perfect and Imperfect Competitive Markets.	4
Chapter:2 Factor pricing in perfectly competitive markets - Marginal productivity theory of factor pricing	3
Chapter:3: Factor pricing in imperfectly competitive markets - Monopsony power: Trade Unions and wage determination - Bilateral monopoly	3
Chapter:4: Theories of wages, rent, interest, and profits (Brief conceptual discussion): Rent: Ricardian Theory, Modern Theory, and Quasi Rent. Wages: Subsistence Theory, Wage-Fund Theory, Residual Claimant Theory, Marginal Productivity Theory and Modern Theory. Interest: Classical Theory - Keynesian Liquidity Preference Theory	10


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Profit: Dynamic Theory, Innovation Theory, Risk-bearing Theory and Uncertainty bearing Theory	
Practicum <ul style="list-style-type: none"> Collecting information on labour supply to understand the reasons for its backward bending Describing the graphs used in Chapter2 Describing the graphs used in Chapter3 Conducting class seminars about the above theories 	
Unit -2: General Equilibrium	8Hrs
Chapter 5 Circular flow - Partial and general equilibrium - General equilibrium in production and exchange (Edgeworth box and Pareto optimality in consumption and production) - Walrasian general equilibrium analysis	8
Practicum: Reading and describing the graphs used	
Unit -3: Welfare Economics	20 Hrs
Chapter 6: Individual welfare and social welfare – Pigou’s Welfare Economics - Social welfare function – Kaldor-Hicks Compensation criteria - Arrow’s impossibility theorem - Theory of second best.	7
Chapter 7: Market failure – Meaning of Market Efficiency – Reasons for Market Failure - Externalities, public goods, property rights and Coase Theorem	5
Chapter 8: Asymmetric information - Meaning - adverse selection, moral hazards, agency problems	4
Chapter 9: Government Intervention – Need for Public Policy - Price ceiling, floor - Taxes, subsidies, Tariffs and quotas - production, import and export quotas – Economics Justification for Welfare Schemes	4
Practicum: <ul style="list-style-type: none"> Conducting surveys to understand the notion of welfare Collecting information on various sources of market failure Documenting the causes and consequences of adverse selection and moral hazards in the day-to-day life of students Preparing a list of government programmes and giving justification for it from the point of view of Economics 	

Pedagogy: Classroom lecture, tutorials, Problem solving exercise

Note: Strictly follow the Practicum

References	
1	Ahuja, H.L. (2008): <i>Principles of Microeconomics</i> , S. Chand and Co., New Delhi
2	Mankiw, N. Gregory (2020). <i>Principles of Economics</i> (Ninth ed.). Boston, MA.
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4	Koutsoyianis, A (1979): <i>Modern Microeconomics</i> , London, Macmillan
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10	https://www.core-econ.org/the-economy/book/text/0-3-contents.html


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Program Name	BSc in Economics	Semester	Third Semester
Course Title	Basic Econometrics		
Course Code:	DSC-3.2	No. of Credits	3
Contact hours	48 Hours	Duration of SEA/Exam	2 Hours
Formative Assessment Marks	40	Summative Assessment Marks	60

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

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

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

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

Contents	48 Hrs
Unit-1: Nature and Scope of Econometrics	14 Hrs
Chapter:1 Introduction to Econometrics: Meaning of Econometrics, Nature and scope of Econometrics- relationship with economics, mathematics and statistics Methodology of econometrics-Types of Econometrics	5
Chapter:2 Understanding Regression Model: The Historical Origin of the Term Regression- Modern Interpretation of Regression-Scatter Diagram-Regression Line- Statistical versus Deterministic Relationships-Regression versus Causation Regression versus Correlation- Terminologies	5
Chapter:3 Two Variable Regression Analysis: Basic Idea-Conditional Mean-Conditional Probability-Population Regression Function (PRF)-Meaning of Linearity-Stochastic Specification of PRF-Significance of Error Term-Sample Regression Function	4
Unit -2: Regression Model: The Problem of Estimation	16 Hrs
Chapter 4 Method of Estimation: The Method of Ordinary Least Square-Point Estimator- Interval Estimator-Classical Linear Regression Model Assumptions-Properties of Least Square Estimators: The Gauss-Markov Theorem	5


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Chapter-5: Estimation and Validation: Coefficient of Determination-Explained Sum of Squares-Residual Sum of Squares-Total Sum of Squares; Hypotheses Testing: precision of estimators- standard error-t-test- testing significance Individual Coefficients-Level of Significance	6
Chapter-6: Multiple Regression Analysis: Three Variable Regression Model-Estimation- Interpretation-Validation: Individual Coefficients (t-test)- Overall Significance (F-test) Model Fit: R-Squared and Adjusted R-Squared	5
Unit -3: Relaxing CLRM Assumptions and Advanced Regression Models	18 Hrs
Chapter 7-The Problems in Regression Model: Multicollinearity: Nature-Identification- Consequences-Detection- Remedial Measures; Heteroscedasticity: Nature-Identification- Consequences-Detection- Remedial Measures; Autocorrelation: Nature-Identification- Consequences-Detection- Remedial Measures	7
Chapter 8 Dummy Variable Regression Models: Nature of Dummy Variables – Specification of Dummy – Dummy Variable Trap – ANOVA – ANCOVA Models	6
Chapter 9 : Simultaneous Regression Model: Nature-simultaneous equation bias-Inconsistency of OLS estimators –Structural and Reduced form equations – Identification Problem- Under – Exact – Over identification –Rules of identification- Order and Rank condition- Introduction to methods of estimation-ILS-2SLS-IV-LIMLE-SUR-3SLS- FIMLE	5

Pedagogy: Classroom lecture, tutorials, Problem solving exercise

References	
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2	Stock, J. H. and Watson, M. W., "Introduction to Econometrics", Pearson, 3rd Ed, 2015.
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4	Baum, C. E., "An Introduction to Modern Econometrics Using Stata", Stata Press, 2006.
5	Gujarati, D. N., "Econometrics by Example", Red Globe Press, 2nd Ed, 2014
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8	Gujarati, D. N., Porter D.C., Gunasekar S., "Basic Econometrics", Mc Graw Hill, 5th Ed,2012
9	MarnoVerbeek, 2017,"A Guide to Modern Econometrics", John Wiley & Sons, Ltd, 5 th Edition.
10	Enders, W., "Applied Econometric Time Series", Wiley 4th Edition, 2018.
11	Baltagi, B.H. "Econometric analysis of panel data", John Wiley and Sons, 5th Edition,2013
12	Pindyck, R.S. and Rubin Feld, D.L., "Econometric Models and Economic Forecasts" 4th Ed

Program Name	BSc in Economics	Semester	Third Semester
Course Title	Rural Economics		
Course Code:	OE-3.1	No. of Credits	3
Contact hours	48 Hours	Duration of SEA/Exam	2 Hours
Formative Assessment Marks	40	Summative Assessment Marks	60

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

- CO1. To Understand the basics of rural development,
- CO2. To study the characteristics, problems, and programmes of rural redevelopment
- CO3. To study the trends and patterns of economic activities in rural areas
- CO4. To study the role of infrastructural facilities and governance in rural development
- CO5. To enable the students to know about significance of rural enterprises and agricultural allied activities.

Contents	48 Hrs
Unit-1:	16 Hrs
Chapter:1 - Introduction to Rural Economy Meaning and Objectives of Rural economy Characteristics of Rural Economy Indicators of Rural Development Concepts of inclusive and sustainable development	6
Chapter:2 - Approaches to Rural Development Gandhian Model Community Development Approach, Minimum Needs Approach, Integrated Rural Development and Inclusive Growth Approach.	5
Chapter:3 - Poverty and Unemployment in Rural India Meaning and Measurement of Poverty Causes of Poverty Farm and Non-farm employment Measurement and Types employment Review of Poverty Alleviation and Employment Generation Programmes in India.	5

Practicum: <ul style="list-style-type: none"> • Field visit to nearby village and study the poverty situation • Field visit to village and study the employment pattern • Undertake evaluation study on employment generation programmes and prepare an assignment. 	
Unit -2:	16 Hrs
Chapter 4- Rural Enterprises Meaning and Importance, Classification of MSME Progress and Problems of MSME Khadi and Village Industries	5
Chapter-5: Rural Banking and Finance Credit Co-operative Societies Regional Rural Banks Role of NABARD Microfinance Institutions	5
Chapter 6: Rural Infrastructure Educational and Health Infrastructure Housing and Sanitation Drinking Water Supply Rural Transport and Communication Rural Electrification	6
Practicum: <ul style="list-style-type: none"> • Write an assignment on Rural infrastructure • Write a small report on Rural Industry 	
Unit -3:	16 Hrs
Chapter 7- Rural Development Programmes Wage Employment Programmes Self-employment and Entrepreneurship Development Programmes Rural Housing Programmes Rural Sanitation Programmes	6


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Chapter 8 - Rural Markets Meaning and Types of Rural Markets Defects and Government Measures for Removal of Defects in rural markets Co-operative Marketing Societies Meaning and Importance of Regulated Markets Digital Marketing(e-NAM)	5
Chapter 9 - Rural Governance Legislations powers, Functions, and sources of revenue of Panchayat Raj Institutions Role of NGOs in rural development People's participation in rural development	5
Practicum: <ul style="list-style-type: none"> • Group Discussion on Rural Governance • Interview Gram Panchayat members and prepare brief note on their participation in rural development. • Undertake evaluation study on rural development programmes and prepare an assignment. 	

Pedagogy: Classroom lecture, tutorials, Problem solving exercise

References	
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2	Dandekar, V.M. and N. Rath (1971): Poverty in India, GIPE, Pune.
3	Dantwala, M. L. (1973): Poverty in India: Then and Now, 1870-1970, Macmillan, Bombay.
4	Gupta. K .R. (Ed) (2003): Rural Development in India, Atlantic Publishers and Distributors, New Delhi.
5	Jain, Gopal Lal (1997): Rural Development, Mangal Deep Publications, Jaipur,
6	Singh, Katar (1986): Rural Development: Principles, Policies and Management, Sage Publications, New Delhi, (Second Edition).
7	Karalay, G. N. (2005): Integrated Approach to Rural Development: Policies, Programmes and Strategies, Concept Publishing Company, New Delhi.
8	Maheshwari, S. R. (1985): Rural Development in India, Sage, Publications New Delhi.
9	Satya Sundaram, I. (1997): Rural Development, Himalaya Publishing House, Delhi.
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11	Tyagi, B. P. (1998): Agricultural Economics and Rural Development, Jai Prakash Math and Co., Meerut.
12	Somashekar Ne. Thi. (2022) ಗ್ರಾಮ ಮಹಾ ಅಭಿವೃದ್ಧಿ , Siddalingeshwara publication, Kalburgi.
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Program Name	BSc in Economics	Semester	Third Semester
Course Title	Economics of Insurance		
Course Code:	OE-3.2	No. of Credits	3
Contact hours	48 Hours	Duration of SEA/Exam	2 Hours
Formative Assessment Marks	40	Summative Assessment Marks	60

Course Outcomes (COs): After the successful completion of the course, the student will be able to: CO1. Gain knowledge relating to the importance of the insurance in the life of human beings.	
Contents	48 Hrs
Unit-1: Introduction to Economics of Insurance	16
Chapter:1 - Fundamentals of Economics of insurance <ul style="list-style-type: none"> ➤ Definition of insurance ➤ Scope of economic of insurance ➤ Importance of insurance 	
Chapter:2 - The conceptual framework <ul style="list-style-type: none"> ➤ Brief history of insurance ➤ Perils and risks in insurance, Classification of risks hazards ➤ How insurance works ➤ Classes of insurance and assumptions 	
Chapter:3 - Type of Insurance <ul style="list-style-type: none"> ➤ Risk pooling and risk transfer in insurance ➤ Social vs private insurance ➤ Life vs non-life insurance 	
Unit -2: Insurance Planning	16
Chapter 4- Types of Insurance Planning <ul style="list-style-type: none"> ➤ Wealth accumulation plan lifecycle planning ➤ Planning for wealth accumulation ➤ Tax advantage and tax non-advantage 	



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Chapter-5: Retirement Planning <ul style="list-style-type: none"> ➤ Essential of individual retirement planning ➤ Investing pension plan, basic principles of pension plans ➤ Pension plans in India 	
Chapter-6: General Insurance Structure <ul style="list-style-type: none"> ➤ General Insurance, concept of General Insurance ➤ Types of General Insurance, Marine Insurance, Motors Insurance, Agricultural Insurance ➤ Fire Insurance, Personal Accident Insurance 	
Unit -3: personal insurance / Health Insurance	16
Chapter 7- Essential of Life and Health Insurance <ul style="list-style-type: none"> ➤ Fundamentals of Life and Health Insurance, functions of Life and Health Insurance ➤ Health Insurance and Economic Development, Insurance and Farmer Security 	
Chapter 8 - Insurance Documentation <ul style="list-style-type: none"> ➤ Health Insurance products, Health Insurance underwriting ➤ Health Insurance claims 	
Chapter 9 - Insurance Legislation <ul style="list-style-type: none"> ➤ The insurance act, 1938- Registration- Accounts and Returns ➤ Investments -Limitation on expense of Management ➤ Regulation of Insurance, Insurance regulation in India, role and need of regulation, history of insurance regulation in India ➤ Insurance Reforms Development Authority (IRDA), performance of IRDA ➤ Indian Insurance in global platform, future potential in Indian Insurance Business 	

Pedagogy: Classroom lecture, tutorials, Problem solving exercise

References	
1	Chambers, R. (1983): Rural Development: Putting the Last First, Longman, Harlow.
2	Dandekar, V.M. and N. Rath (1971): Poverty in India, GIPE, Pune.
3	Dantwala, M. L. (1973): Poverty in India: Then and Now, 1870-1970, Macmillan, Bombay.
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Program Name	BSc in Economics	Semester	Third Semester
Course Title	Economics of Human Development		
Course Code:	OE-3.3	No. of Credits	3
Contact hours	48 Hours	Duration of SEA/Exam	2 hours
Formative Assessment Marks	40	Summative Assessment Marks	60
Course Outcomes (COs): After the successful completion of the course, the student will be able to: CO1. Differentiate between Human Resource Development (HRD), Human Development (HD) and HRM CO2. Understand the concepts of Human security, describe dimensions of human development, and appreciate various practices and policies of human development, HDI and India.			
Contents			48 Hrs
Unit-1: Introduction to Human Development			16 Hrs
Chapter 1: Human Growth and Human Development - Basic Needs Approach - Quality of Life Approach - Capability Approach Chapter 2: Human Resource Development (HRD), Human Resource Management (HRM). Chapter 3: Human Development: meaning and definition, importance, and objectives.			
Unit -2: Human Security, SDGs and Approaches to Human Development.			16Hrs
Chapter 4: Human Security: Economic security - Food security - Health security - Environmental security - Personal security - Community security - Political security. Chapter 5: Sustainable Development Goals (SDGs): Understanding the SDGs - Linkages between human development and the SDGs. Chapter 6: Indian Perspectives and Experience with Human Development: Approach to human development in national plans			
Unit -3: Dimensions and Measurement of Human Development			16 Hrs
Chapter 7: Dimensions of Human Development: Empowerment - meaning and usage, Cooperation - definition and brief introduction, Equity - concept and usage, Sustainability – meaning and importance, Participation - concept, different forms of participation, Human development & Productivity - factors determining productivity.			
Chapter 8: Measuring Human Development: Need for indices - limitations of per capita GDP as an indicator. Earlier indices (meaning): - Physical Quality of Life Index (PQLI), - Disability Adjusted Life Years (DALYs), - Social Capability Index. Human Development Index - HDI as compared to per capita GDP - Method of computing HDI - Critique of HDI. Other indices (meaning): Human Poverty Index (HPI)- Gender-related Development Index (GDI) - Gender Empowerment Measure (GEM). Chapter 9: Selected Issues in Human Development: Impact of Globalisation on Human Development - Trade and Human Development. - Technology and Human Development			


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References	
1	Chelliah, Raja J. and R. Sudarshan (eds.), 1999, Income Poverty and Beyond: Human Development in India, UNDP, Social Science Press, New Delhi
2	Dev, S. Mahendra, Piush Antony, V. Gayathri, and R.P. Mamgain, 2001, Social and Economic Security in India, Institute for Human Development, New Delhi
3	Government of India, National Human Development Report 2002, Planning Commission, New Delhi
4	Jaya Gopaki, R: Human Resource Development: Conceptual analysis and Strategies, Sterling Publishing Pvt. Ltd., New Delhi
5	Naresh Gupta (2019), Human Development in India Emerald Publishers.
6	Nadler, Leonard (2004). Corporate Human Resource Development, Van Nostrand Reinhold, ASTD, New York
7	Padmanabhan Nair(2007) Human Development Index: An Introduction (Economy Series), ICFAI UNIVERSITY PRESS
8	Papalia, D.E. , Olds, S.W. and Feldman, R.D. (2006). Human development.9th Ed. New Delhi: Tata McGraw Hill.
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10	Rao, T.V: Readings in HRD, Oxford IBH Pub. Pvt. Ltd., New Delhi,
11	Viramani, B.R and Seth, Parmila: Evaluating Management Development, Vision Books, New Delhi.
12	Rao, T.V. (et.al)(2003) HRD in the New Economic Environment, Tata McGraw-Hill Pub.Pvt, Ltd., New Delhi ,.
13	Rao, T.V: Human Resource Development, Sage Publications, New Delhi.
14	Viramani, B.R and Rao, Kala: Economic Restructuring, Technology Transfer and Human Resource Development, Response Books, New Delhi
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Websites:	
1	https://www.undp.org/sustainable-development-goals?c_src=CENTRAL&c_src2=GSR
2	https://hdr.undp.org/en/2020-report
3	https://www.un.org/millenniumgoals/
4	https://www.undp.org/india/publications/national-human-development-report-india
5	https://www.sdgfund.org/mdgs-sdgs


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Program Name	BSc in Economics	Semester	Fourth Semester
Course Title	Monetary Economics		
Course Code:	DSC-4.1	No. of Credits	3
Contact hours	48 Hours	Duration of SEA/Exam	2 Hours
Formative Assessment Marks	40	Summative Assessment Marks	60


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

CO1. Understand the operation of the overall monetary economy and money

CO2. What constitutes supply and demand for money as well as theories and approaches.

CO3. Monetary policy and inflation and its impact on welfare

Contents	48 Hrs
Unit-1: Introduction to money and monetary economics	17Hrs
Chapter:1 Introduction: <ul style="list-style-type: none"> ➤ Theoretical and empirical definition of money ➤ Role and Functions of Money ➤ Paper currency – system of Note issue ➤ weighted monetary aggregates 	7
Chapter-2: Money demand and supply <ul style="list-style-type: none"> ➤ Concepts of supply and demand for money ➤ Microeconomic determinants of the demand for money and macroeconomic money demand functions ➤ Financial intermediaries, banks, and money creation ➤ Money supply and price level ➤ Determinants of money supply ➤ High powered money ➤ Money multiplier ➤ The reserve ratio and deposit multiplier 	10


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Unit -2: Theories and approaches of demand for and supply of money	17 Hrs
Chapter-3: Theories of demand for money and supply: <ul style="list-style-type: none"> ➤ Tobin's portfolio selection and Baumol's transaction demand for money ➤ Friedman's restatement of quantity theory of money ➤ Endogenous money supply, Kaldor's theory 	9
Chapter-4: Approaches - demand for money and supply: <ul style="list-style-type: none"> ➤ Laidler's buffer stock approach ➤ Gurley-Shaw's approach ➤ Behavioural approach of money supply 	8
Unit -3: Inflation and Monetary Policy	14 Hrs
Chapter-5: Inflation: <ul style="list-style-type: none"> ➤ Inflation - Types - causes - effects and Remedies ➤ Monetarist view on Inflation-Concept of core inflation ➤ measures of inflation (CPI, WPI, Core, Headline, GDP deflator) ➤ Monetary Targeting-Inflation targeting ➤ Interest rate targeting-p-star model ➤ Rule vs. discretion in the conduct of monetary policy ➤ central bank's -measures of monetary control 	6
Chapter-6: The welfare effects of inflation and monetary policy: <ul style="list-style-type: none"> ➤ Neutrality and super neutrality of money, welfare costs, and the inflation tax ➤ The Classical model, flexible price economies and monetary policy ➤ Rational expectations, representative agents' and real business cycle theory. MIU, CIA, Lucas supply functions and the effects of monetary policy. ➤ The new Keynesian approach to monetary policy — nominal rigidities: ➤ New Keynesian Phillips curve, IS Curve, Taylor rules, financial accelerator models. 	8


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Pedagogy: Classroom lecture, tutorials, Problem solving exercise

References	
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5	Gupta, S B, Monetary Economics Institutions and policy, S.Chand& Co., New Dehi,
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Program Name	BSc in Economics	Semester	Fourth Semester
Course Title	Time Series Econometrics		
Course Code:	DSC-4.2	No. of Credits	3
Contact hours	48 Hours	Duration of SEA/Exam	2 Hours
Formative Assessment Marks	40	Summative Assessment Marks	60

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

- CO1. Deal with comprehensive set of tools and techniques for analysing various forms of univariate and multivariate time series
- CO2. Understand the current literature in applied time series.
- CO3. Use statistical packages like STATA, E-views, SPSS and the like

Content of Theory	48 Hrs
Unit 1: Dynamic Econometric Models - Autoregressive and Distributed Lag Models	14 Hrs
Chapter:1 Role of lag in economics – Reasons for lag –distributed lag model – autoregressive model- Estimation of distributed lag models – Ad Hoc estimation – Koyck approach –mean lag- median lag	5
Chapter-2: Rationalization of Koyck model – Adaptive expectation model- stock adjustment or partial adjustment model –Combination of Adaptive expectation and partial adjustmentmodels.	5
Chapter-3: Estimation of Autoregressive models Method of instrumental variables (IV)- detection of autocorrelation in autoregressive models – Durbin h test- The Almon Approach to Distributed-Lag Models: The Almon or Polynomial Distributed Lag (PDL)	4
Unit -2: Time Series Econometrics	16 Hrs
Chapter-4: Basic Concepts of Time Series: Stylised characteristics of time series data- Basic concepts of time series model- stochastic process-, Stationary Process, Non-stationary process- random walk model – random walk without drift- random walk with drift –random walk around stochastic trend	5
Chapter-5: Unit Root Tests: spurious regression – non-stationarity or unit root tests – Graphs – Autocorrelation function (ACF)-partial autocorrelation function (PACF) The Augmented	5



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Dickey–Fuller (ADF) Test - The Phillips–Perron (PP) Unit Root Tests - A Critique of the Unit Root Tests- Transforming Nonstationary Time Series –difference stationary –Trend stationary.	
Chapter-6: Cointegration: Meaning – Regression of unit root time series – Testing for Cointegration – Engle-Granger two step test – Johansen test: maximum eigenvalue test Trace test- Phillips –Ouliaris three step test-Error correction mechanism	6
Unit -3: Time Series Econometrics: Forecasting	18 Hrs
Chapter-7: Approaches to Economic Forecasting: exponential smoothing – Single equation regression models – Simultaneous equation regression models – ARIMA models	4
Chapter-8: AR, MA, and ARMA and ARIMA Models: Autoregressive models (AR)- Moving average models(MA)-Autoregressive moving average models(ARMA)- Autoregressive integrated moving average models (ARIMA)	7
Chapter-9: Box-Jenkins (BJ) Methodology: Steps involved in BJ method – Identification: Autocorrelation function (ACF)-partial autocorrelation function (PACF) –Estimation-Diagnostic checking- Forecasting	7

Pedagogy: Classroom lecture, tutorials, Problem solving exercise

References	
1	Gujarati, D. N., Porter D.C., Gunasekar S., “Basic Econometrics”, Mc Graw Hill, 5th Ed, 2012
2	Marno Verbeek, 2017, “A Guide to Modern Econometrics”, John Wiley & Sons, Ltd, 5 th Edition.
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8	Baltagi, B.H. “Econometric analysis of panel data”, John Wiley and Sons, 5th Edition, 2013
9	Pindyck, R.S. and Rubinfeld, D.L., “Econometric Models and Economic Forecasts” 4th Ed
10	Jeffrey M. Wooldridge Econometric Analysis of Cross Section and Panel Data, MIT Press
11	Wooldridge, J. M., “Introductory Econometrics: An Introductory Approach”, South Western, Cengage Learning, 5th Edition, 2013

Program Name	BSc in Economics	Semester	Fourth Semester
Course Title	Karnataka Economy		
Course Code:	OE 4.1	No. of Credits	3
Contact hours	48 Hours	Duration of SEA/Exam	2 Hours
Formative Assessment Marks	40	Summative Assessment Marks	60
Course Outcomes (COs): After the successful completion of the course, the student will be able to: CO1. Understand the nature of economic growth and problems of Karnataka state. CO2. Explain the process of structural growth in Karnataka Economy CO3. Evaluate the policies and programmes undertaken by the Govt. of Karnataka for bringing about socio-economic development			
Contents			48 Hrs
Unit-1: Karnataka Economy – An overview			15 Hrs
Chapter:1 Characteristics of Karnataka Economy <ul style="list-style-type: none"> o Features of Karnataka Economy o Trends and sectoral distribution of State Domestic Product and Per Capita Income o Measures to redress regional imbalances – Dr. Nanjundappa Committee Report, Article 371J 			5
Chapter-2: Human Resources <ul style="list-style-type: none"> o Human Resources: importance, Size and Health indicators o Human Development Index o Poverty and Unemployment– Eradication Programmes 			5
Chapter-3: Natural Resources Management <ul style="list-style-type: none"> o Natural Resources: Importance and volume of different natural resources o Karnataka Environmental Policy 			5
Practicum: conduct field visit to Forest/Reservoir/Mining and prepare the report			
Unit -2: Agriculture, Rural development, and Industries in Karnataka			19 Hrs
Chapter-4: Agriculture <ul style="list-style-type: none"> o Problems in Agriculture o Land Reforms 			7


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<ul style="list-style-type: none"> ○ Cropping Pattern ○ Irrigation: importance, important irrigation projects and watershed development projects. ○ Farmers Suicide – Causes and Solutions 	
Chapter-5: Rural Development <ul style="list-style-type: none"> ○ Public Distribution System ○ Rural Development Programmes (brief) ○ Government Schemes for Rural Women 	5
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 	7
Practicum: visit to industrial units in local area and prepare the report/Trace-out the impact of Prof. D. M. Nanjundappa Committee report	
Unit -3: Infrastructure and Finance in Karnataka	14 Hrs
Chapter-7: Economic Infrastructure <ul style="list-style-type: none"> ○ Transportation: Road, Rail, Water and Air Transport ○ Information and Communication Technology Facilities 	4
Chapter-8: Social Infrastructure <ul style="list-style-type: none"> ○ Drinking Water ○ Housing and Sanitation ○ Health and Education ○ Rural Electrification 	5
Chapter-9: State Finance <ul style="list-style-type: none"> ○ Sources of Revenue: Direct and Indirect Taxes ○ Impact of GST on Karnataka economy ○ State Expenditure ○ State Finance Commission ○ Current State Budget (Brief) 	5
Practicum: Discussion on State budget	


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Pedagogy

Note: Strictly follow the Practicum

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


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Program Name	BSc in Economics	Semester	Fourth Semester
Course Title	Entrepreneurial Economics		
Course Code:	OE 4.2	No. of Credits	3
Contact hours	48 Hours	Duration of SEA/Exam	2 Hours
Formative Assessment Marks	40	Summative Assessment Marks	60

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

CO1. Start own business as Entrepreneur

CO2. Enabling the students to find career opportunities in business.

CO3. To enable the students to gain knowledge and skills needed to run a business successfully.

Contents	48 Hrs
Unit-1: Entrepreneur and Entrepreneurship	14 Hrs
<p>Chapter 1: Entrepreneur and Entrepreneurship – Meaning, Definitions, Evolution, types- Characteristics, qualities, functions of entrepreneur- Distinction between entrepreneur and manager, Distinction between entrepreneur and intrapreneur,</p> <p>Chapter 2: Role and importance of Entrepreneurship in economic development: Role and importance- Factors influencing entrepreneurship’ - Psychological, social, Economic and Environmental.</p> <p>Chapter 3: New generations of entrepreneurship viz. social, Health, Tourism and Women entrepreneurship; Barriers to entrepreneurship.</p>	
Unit -2: Launching Entrepreneurial Ventures	20 Hrs
<p>Chapter 4: Generation of ideas: Methods and process - sources of ideas - screening process- Assessing Opportunities-Challenges, pitfalls and critical factors of new venture;</p> <p>Chapter 5: Business Plan- New Ventures: Steps involved in setting up a Business – identifying, selecting a Good Business opportunity, Market Survey and Research, Techno-Economic Feasibility Assessment.</p> <p>Chapter 6: Role of Innovation & Creativity: Innovation- Meaning and importance of innovation; Types of innovation; Sources of innovation; Conditions for effective innovation at Organization level;</p> <p>Chapter 7: Creativity: Concept and process of creativity; role and importance of creativity and mental blocks to creativity; branding, trademarks, patents, copyrights, and registered design protection-Methods of protecting innovation and creativity.</p>	


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Unit -3: Business and Entrepreneurial development	14 Hrs
<p>Chapter 8: Entrepreneur Assistance: Assistance to an entrepreneur-Industrial Park (Meaning, features, & examples)-Special Economic Zone (Meaning, features & examples)-Financial assistance by different agencies-License, Environmental Clearance, e-tender process, Excise exemptions and concession, Exemption from income tax -Quality Standards with special reference to ISO.</p> <p>Chapter 9: Business and Entrepreneurial development - Determining and acquiring required resources (Financial, Physical and Human): Search for entrepreneurial capital- Debt vs. Equity; Venture Capital Market; Angel Financing and Alternative sources of finance for Entrepreneurs. Entrepreneurship development programme (EDP) in India- Objectives, Phases, and inputs of EDP; - Government initiatives for entrepreneurship – Make in India, Start-up India, MUDRA etc.</p>	

Pedagogy: Classroom lecture, tutorials, Problem solving exercise


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

Program Name	BSc in Economics	Semester	Fourth Semester
Course Title	Economics and Law		
Course Code:	OE 4.3	No. of Credits	3
Contact hours	48 Hours	Duration of SEA/Exam	2 Hours
Formative Assessment Marks	40	Summative Assessment Marks	60

Course Outcomes (COs): After the successful completion of the course, the student will be able to: CO1. Comprehend the basic economic issues affecting the economy along with the related legal provisions CO2. Acquire knowledge on the basic provisions of law relating to consumer activities, business organizations, environment CO3. To appreciate the understanding the law framework in order to frame the economics model closer to reality. CO4. To enable the students to understand the consequences of legal rules, primarily as an exercise in applied microeconomics, macroeconomics, industrial and international economics.	
Contents	48 Hrs
Unit-1: Economic analysis of law	16 Hrs
Chapter 1: Introduction to legal reasoning <ul style="list-style-type: none"> Efficiency. Markets and efficiency. Market failure. Coase theorem and related ideas, 	6
Chapter 2: welfare economics <ul style="list-style-type: none"> Compensation principles. Social welfare function. Maximization problem; 	5
Chapter 3: Economic Reasoning <ul style="list-style-type: none"> Nature of economic reasoning. Economic approach to law History Criticism. 	5
Practicum: <ol style="list-style-type: none"> Group Discussions on Economic reasoning Assignment on Coase theorem and related issues 	


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Unit -2: An Introduction to Law and Legal Institutions	12 Hrs
Chapter 4: Law: Basics <ul style="list-style-type: none"> • Definition • Territorial Nature of Law • Kinds of Law • 	4
Chapter5: General Law & Special Lau <ul style="list-style-type: none"> • General Law • Special Law: Kinds of Special Law 	2
Chapter 6: Civil law and the and the Common Law Traditions <ul style="list-style-type: none"> • The institutions of the federal and State Court systems; • The nature of legal dispute, • How legal rules evolve. 	6
Practicum: <ol style="list-style-type: none"> 3. Group Discussions on Civil law and the and the Common Law Traditions 4. Assignment on the different kinds of Law 	
Unit -3: Economic Laws	20 Hrs
Chapter 6: Law Relating to Consumer Activities <ul style="list-style-type: none"> • Bargaining theory. • Economic theory of contract. • Defining tort law, • Economics of tort liability. • Definition of Consumer • Consumer protection; The Consumer Protection Act, 2019 • Consumer courts 	7
Chapter 7: Law of Business Organizations <ul style="list-style-type: none"> • Structure of firm — Kinds, Corporations, • Capital, Shares, Debentures, Insiders' trading, • RBI, IRDA, MRTP, Role of SEBI, 	6


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Chapter 8: Macroeconomics and Law <ul style="list-style-type: none"> • Inequality; Contract theory of Distributive justice • Economic and social costs of poverty • Wealth distribution by Liability Rules • Taxation and efficiency • National and global environmental problems and international environmental agreements — their legal and economic implications 	7
Practicum <ol style="list-style-type: none"> 3. Hold the moot court in the classroom and let there be discussion consisting of at least two or more different views on National and Global environment problems and acts 4. Discuss the case studies on Economic and social costs of poverty and consumer court judgements protecting the consumers 	

Pedagogy: Classroom lecture, tutorials, Problem solving exercise

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

Program Name	BSc in Economics	Semester	Fourth Semester
Course Title	Economics of GST		
Course Code:	OE 4.4	No. of Credits	3
Contact hours	48 Hours	Duration of SEA/Exam	2 Hours
Formative Assessment Marks	40	Summative Assessment Marks	60

Course Outcomes (COs): After the successful completion of the course, the student will be able to:	
CO1. Acquire knowledge on indirect taxes with special reference to GST	
CO2. Acquire the theoretical and application knowledge of GST and its Evolution in India	
CO3. To enable the students to understand the GST Law, ITC, Valuation of supply and returns	
CO4. Simple calculation of GST and Input Tax Credit, Valuation of Supply (Numerical on valuation and calculation of tax)	
Contents	48 Hrs
Unit-1: Introduction to Economics of GST	18 Hrs
Chapter 1: Indirect taxes before GST <ul style="list-style-type: none"> Indirect Taxes Meaning, Types with examples Constitutional framework of Indirect Taxes before GST (Taxation Powers of Union & State Government) Concept of VAT: Meaning, Variants and Methods; 	7
Chapter 2: Reforms in Indirect Taxes <ul style="list-style-type: none"> Major Defects in the structure of Indirect Taxes prior to GST, Need for Tax reforms Kelkar committee on Tax Reforms 	6
Chapter 3: Introduction to GST <ul style="list-style-type: none"> Rationale for GST; Constitution [101st Amendment] Act, 2016; GST- Meaning, Overview of GST Taxes subsumed under GST Territorial Jurisdiction of GST Multiple rates of GST Recent reforms in GST 	5
Practicum: <ol style="list-style-type: none"> Group Discussions on Indirect Taxes defects prior to GST Assignment on Types of Indirect Taxes prior to GST and After introduction of GST 	

Unit – 2 Fundamentals of GST	14 Hrs
Chapter 4: GST Structure in India, <ul style="list-style-type: none"> • GST: Advantages and Disadvantages • One Nation-One Tax, • Structure of GST; • Features of Single and Dual GST Model 	5
Chapter 5: Dual GST Mode and GST Council <ul style="list-style-type: none"> • Dual GST Mode in India: 1 SGST, CGST, UTGST & IGST); • Goods and Services Tax Network [GSTN], • GST Council; Creation, Members, Decisions, Compensation to states. • GST Network, • Registration, 	5
Practicum: <ol style="list-style-type: none"> 3. Group Discussions on advantages and disadvantages of GST 4. Hold the moot of GST Council in the class room and decide the different slabs of GST 	4
Unit -3: Taxes and Duties	16 Hrs
Chapter 6: Transactions and taxes covered and not covered <ul style="list-style-type: none"> • Transactions and taxes covered under GST • Taxes and duties outside the purview of GST • Tax structure Computation • Administration of Tax on items containing alcohol, petroleum products, tobacco products • Taxation on services 	4
Chapter 7: Levy and Collection of Tax <ul style="list-style-type: none"> • Taxable event- “Supply” of Goods and Services • Place of Supply: Within state, Interstate Levy and Collection • Import and Export; Time of supply • Valuation for GST- Valuation rules, • Taxability of reimbursement of expenses; • Exemption from GST: Small supplies and Composition Scheme Classification of Goods and Services: Composite and Mixed Supplies. 	6

Chapter 8: Input Tax Credit <ul style="list-style-type: none"> • Eligible and Ineligible Input Tax Credit • Apportionments of Credit and Blocked Credits • Tax Credit in respect of Capital Goods • Recovery of Excess Tax Credit • Availability of Tax Credit in special circumstances • Transfer of Input Credit (Input Service Distribution) • Payment of Taxes; Refund; Doctrine of unjust enrichment 	6
Practicum <ol style="list-style-type: none"> 4. Simple illustrations on calculation of GST and Input Tax Credit, 5. Valuation of Supply (Numerical on valuation and calculation of tax) 6. Simple calculation Adjustment of Input tax credit against output CGST, SGST, IGST. 	

Pedagogy: Classroom lecture, tutorials, Problem solving exercise

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


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