



ಬೆಂಗಳೂರು ಉತ್ತರ ವಿಶ್ವವಿದ್ಯಾಲಯ

ಟಮಕ, ಕೋಲಾರ – 563103

CHOICE BASED CREDIT SYSTEM

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

SYLLABUS AS PER NEP GUIDELINES

SUBJECT: ECONOMICS

2021-22 onwards

**PROCEEDINGS OF THE BANGALORE NORTH UNIVERSITY BOS (UG)
ECONOMICS THROUGH CIRCULATION**

Members

1. Dr. S.R. Keshava, Chairperson (BOS)
1. Dr. T C Chandrashekar
2. Dr. Komala, A.C Member
3. Dr. Madhusudhan, Member
4. Dr. Rudre Gowda, Member
5. Dr. Geetha H, Member

The BOS Chairperson through one-to-one discussion, discussion through conference call and finally through circulation deliberated, discussed and finally

The following resolutions were passed unanimously and agreed upon.

1. The BA/B.Sc. in Economics (Basic/Hons) structure was discussed and unanimously approved as per the NEP 2020
2. The BA/B.Sc. in Economics (Basic/Hons) first two semesters syllabus was discussed and unanimously approved
3. The subsequent semester syllabus would be prepared and finalised subsequently
4. To arrange Workshop for fellow teachers about the new syllabus under NEP.

Signature


Dr.S.R.Keshava,
Chairperson (BOS)



BENGALURU NORTH UNIVERSITY

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

With Effect from Academic Year
2021-22 Onwards

CONTINUOUS INTERNAL EVALUATION AND SEMESTER END EXAMINATION

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

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

Evaluation process of IA marks is as follows:

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

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

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

Outline for continuous assessment activities for C1 and C2

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

Suggestive Template for IAT

Internal Assessment Test

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

Course Code:

Name of the Paper:

Duration: 90 Minutes

Total Marks: 30

SECTION-A

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

(1 X 10= 10)

SECTION- B

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

(5X2 = 10)

SECTION- C

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

(10 X1=10)

Question Paper Pattern for 60 Marks

Section A (objective type)

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

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

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

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

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

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

In

Economics

Acronyms Expanded

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

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

B

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

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

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

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

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

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

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

Semester -VII								
Sl No.	Course Code	Title of the Course	Category of Courses	Teaching Hours per week (L+T+P)	SEE	CIE	Total Marks	Credits
1	Economics-C13	Advanced Microeconomics	DSC	4+0+0	60	40	100	4
2	Economics-C14	Financial Economics	DSC	4+0+0	60	40	100	4
3	Economics C15	Econometrics	DSC	3+0+0	60	40	100	3
4	Economics	1. Population Studies 2. Urban Economics 3. Economics of Infrastructure (Choose 1)	DSE	3+0+0	60	40	100	3
5	Economics	1. Economics of Governance 2. Gender Economics 3. Economics of Health & Education (Choose 1)	DSE	3+0+0	70	40	100	3
6	B.A 7. 6	Research Methodology for Economics	DSC	2+1+0				3
Sub- Total								20

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

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

Program Structure

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

Discipline Core: Economics

Total Credits:

Semester -I

Sl No	Course Code	Title of the Course	Category of Courses	Teaching Hours /Week (L+T+P)	SEE	CIE	Total Marks	Credits
1								
2								
3	Economics-C1	Microeconomics	DSC	3+0+0	60	40	100	3
4	Economics-C2	Mathematics for economics	DSC	3+0+0	60	40	100	3
5								
6								
7	O E 1	4. Kautilya's Arthshastra 5. Development Studies 6. Managerial Economics	OEC	3+0+0	60	40	100	3
8								
Sub- Total								9

Semester -II

Sl No	Course Code	Title of the Course	Category of Courses	Teaching Hours /Week (L+T+P)	SEE	CIE	Total Marks	Credits
1								
2								
3	Economics-C3	Macroeconomics	DSC	3+0+0	60	40	100	3
4	Economics-C4	Statistics for Economics	DSC	3+0+0	60	40	100	3
5								
6								
7	O E 2	4. Contemporary Indian Economy 5. Sustainable Development 6. Economics of Business Environment	OEC	3+0+0	60	40	100	3
8								
9								
<i>Sub- Total</i>								9

Exit option with Certificate (48 credit)

Semester -III

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

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

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

Semester -V

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

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

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

Semester -VII

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

Semester -VIII

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

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

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

BA (Hons) Economics

Semester 1

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

Course Outcomes:

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

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

Content of Basic Economics 1	42 Hrs
Unit – 1 Basic Concepts in Economics	14
Chapter No. 1 Nature and Scope of Economics <ul style="list-style-type: none">• Meaning of Economics• Nature of Economics• Scope of Economics• Methods of Economics• Why Study Economics?	5
Chapter No. 2 Thinking Like an Economist <ul style="list-style-type: none">• Thinking Like an Economist• The Economist as Scientist• The Economist as Policy Adviser• Economic Policy	4
Chapter No. 3 Economic System <ul style="list-style-type: none">• Types of Economic Activities• Organisation of Economic Activities• Circular Flow of Economic Activities• Evolution of the Present Economic Systems Practicum: 1. Group Discussions on Choice Problem 2. Assignment on Types of Economic Systems	5
Unit – 2 Demand, Supply and Markets	14
Chapter No. 4. Firms and Household <ul style="list-style-type: none">• Meaning of Firms and Household• Relationship Between Firms and Household• Input Markets• Output Markets	4
Chapter No. 5. Demand and Supply <ul style="list-style-type: none">• Individual Demand• Market Demand• Demand Determinants• Supply and its Determinants• Market Equilibrium	5
	5

Chapter No. 6. Elasticity and its Measurement <ul style="list-style-type: none"> • Types of Elasticity of Demand • Price, Income and Cross Elasticities • Measurement of Elasticity of Demand • Determinants of Elasticity of Demand Practicum: 1. Estimation of demand and supply elasticities 2. solving an equilibrium problem	
Unit – 3 Cost and Market Structures	14
Chapter No. 7 Production and Costs <ul style="list-style-type: none"> • Production Function • Total Production Cost • Marginal Production Cost • Average Production Cost • Revenue Functions 	4
Chapter No. 8. Accounting and Economic Costs <ul style="list-style-type: none"> • Cost in the Short run • Fixed Costs and Variable Costs • Marginal Costs • Long run AC and MC • TR, MR, AR 	5
Chapter No. 9. Market Structures <ul style="list-style-type: none"> • Markets • Perfect and Imperfect Competition • Features of Perfect Competition • Monopoly, Oligopoly and Monopolistic Competition • Pricing Strategies Practicum: 1. Calculation of various costs and comparing them with production concepts; a mini-project can be taken up wherever possible 2. Studying the real-life pricing mechanism through a project/ case studies	5
References (indicative) <ol style="list-style-type: none"> 1. Cohen, A.J. (2020). <i>Macroeconomics for Life: Smart Choices for All? + MyLab Economics with Pearson eText</i> (updated 2nd ed.). Toronto, ON: Pearson Canada Inc. Type: Textbook: ISBN: 9780136716532 2. Cohen, A.J. (2015). <i>Microeconomics for Life: Smart Choices for You + MyLab Economics with Pearson eText</i> (2nd ed.). Toronto, ON: Pearson Canada Inc. Type: Textbook: ISBN: 9780133899368 3. Case Karl E. and Fair Ray C. Principles of Economics, Pearson Education Asia, 2014. 4. Mankiw N. Gregory. Principles of Economics, Thomson, 2013. 5. Stiglitz J.E. and Walsh C.E. Principles of Economics, W.W. Norton & Co, New York, 2011. 	

Semester I

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

Course Pre-requisite(s):

Course Outcomes (COs):

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

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

Content of Course 1	42 Hrs
Unit – 1 LPG POLICIES, ECONOMIC REFORMS AND AGRICULTURE	14
Chapter No. 1 Recent Issues <ul style="list-style-type: none">Genesis and Impact of LPGIndia's population policyDemographic DividendIndia's human development in global perspective	4
Chapter No. 2 Urbanization and governance <ul style="list-style-type: none">Urbanization and Smart City MissionInformal sectorImpact of COVID-19 PandemicAtma Nirbhara Bharat Abhiyan	4
Chapter No. 3 Economic Reforms and Agriculture <ul style="list-style-type: none">Agriculture and WTOPrice policy and SubsidiesCommercialisation and DiversificationPublic Distribution SystemImpact of public expenditure on agricultural growthAgrarian Crisis, Doubling Farm Incomes, MGNREGS	6
Practicum	

2. Group Discussions on India's trade policies and trade agreements

References

- Bardhan, P.K. (9th Edition) (1999), The Political Economy of Development in India, Oxford University Press, New Delhi.
- Bhaduri Amit, (2015), A Model of Development By Dispossession, Fourth Foundation
- Byres Terence J. (ed.), (1998), The State, Development Planning and Liberalisation 'in India, Delhi, OUP
- Dutt Ruddar and K.P.M Sundaram (2001): Indian Economy, S Chand & Co. Ltd. New Delhi.
- Frankel Francine R., (2004), India's Political Economy, Delhi. OUP Jenkins Rob, 2000, Economic Reform in India, Cambridge, CUP
- Jalan, B. (1996), India's Economic Policy- Preparing for the Twenty First Century, Viking, New Delhi.
- Joshi Vijaya and L.M.D. Little, (1998), India's Economic Reform 1991-2001, Delhi, OUP.
- Kapila Uma: Indian Economy: Policies and Performances, Academic Foundation
- Mishra S.K & V.K Puri (2001) "Indian Economy and –Its development experience", Himalaya Publishing House.
- Mukharji Rahul (ed.) (2007), India's Economic Transition: The Politics of Reforms, edited by Rahul Mukherji, Oxford University Press , New Delhi.
- Stuart and John Harris, (2000), Reinventing India, Cambridge Polity

Semester I

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

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

Course Outcomes (COs):

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

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

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

Suggested readings:

1. Arthashastra of Kautilya by T. Ganapati Shastri, Chaukhambha Surbharti Prakashana, Varanasi, India, 2005.

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

Semester 1

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

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

Course Outcomes (COs):

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

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

Unit	Description	Hours
I	Features and problems of Indian Economy	15
	Chapter 1: Features of Indian Economy <ul style="list-style-type: none"> India as a developing economy, Demographic features Human Development (HDI), Problems of Poverty, Unemployment, Inflation, income inequality 	4
	Chapter 2: Issues in Agriculture sector in India <ul style="list-style-type: none"> Land reforms Green Revolution Agriculture marketing in India Agricultural price policy 	6
	Chapter 3: Industrial and Service Sector <ul style="list-style-type: none"> Industrial development; Micro, Small and Medium Enterprises, Industrial Policy Performance of public sector in India, Service sector in India. 	5
	Practicum: 1. Identifying economic problems and their causes; 2. Mini-project on any aspect of Indian agriculture, industry, service and public sectors	
II	Economic Policies	13
	Chapter 4: Planning <ul style="list-style-type: none"> Mixed Economy 	5

	<ul style="list-style-type: none"> • Bombay Plan • Gandhian Model • Nehru Mahalanobis Model • Objectives and achievements of economic planning in India <p>Chapter 5: Monetary policy in India</p> <ul style="list-style-type: none"> • Instruments of Monetary Policy • Black money in India – Magnitude and Impact <p>Chapter 6: Fiscal Policy in India</p> <ul style="list-style-type: none"> • Tax Revenue • Public expenditure • Budgetary deficits • Fiscal reforms • Public debt management and reforms • Centre state Finance Relations and Finance commissions in India. <p>Practicum: Assignment on successes and failures of India's planning; Monetary and Fiscal Policy instruments</p>	<p>2</p> <p>6</p>
III	External sector and Nature of Reforms in India	14
	<p>Chapter 7: India's foreign trade</p> <ul style="list-style-type: none"> • Salient features • Value, composition and direction of trade • Balance of payments • Goal of self-reliance based on import substitution and protection • Tariff policy • Exchange rate <p>Chapter 8: Post-1991 strategies</p> <ul style="list-style-type: none"> • Stabilisation and structural adjustment packages • Liberalisation Privatisation Globalisation (LPG) Model • Impact of LPG Policies on Indian Economy <p>Chapter 9: NITI Ayog</p> <ul style="list-style-type: none"> • Organization • Functions <p>Practicum: Calculation of BoP and evaluating trade policies; Assignment and group discussion on the impact of LPG Policies</p>	<p>6</p> <p>6</p> <p>2</p>
<p>Suggested Readings:</p> <ol style="list-style-type: none"> 1. Dutt Ruddar and K.P.M Sundaram (2001): Indian Economy, S Chand & Co. Ltd. New Delhi. 2. Mishra S.K & V.K Puri (2001) "Indian Economy and –Its development experience", Himalaya Publishing House. 3. Kapila Uma: Indian Economy: Policies and Performances, Academic Foundation 4. Bardhan, P.K. (9th Edition) (1999), The Political Economy of Development in India, Oxford University Press, New Delhi. 5. Jalan, B. (1996), India's Economic Policy- Preparing for the Twenty First Century, Viking, New Delhi. 		

Semester 1

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

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

Course Outcomes (COs):

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

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

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

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

Semester II

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

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

Course Outcomes (COs):

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

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

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

	Practicum: 1. Reviewing the monetary policy of RBI; 2. A project to identify the nature and causes of poverty and the latest central budget	
III	Public Policy and Globalization	18
	Chapter 7: Poverty and public policy <ul style="list-style-type: none"> • Meaning, measurement and types of poverty • Poverty alleviation strategies in India Chapter 8: International Trade <ul style="list-style-type: none"> • The economic basis for trade—absolute advantage and comparative advantage, • terms of trade • exchange rates • Trade Barriers-tariffs, subsidies and quotas Balance of Payments-The current and capital account	6 9
	Chapter 9: Globalization <ul style="list-style-type: none"> • Meaning • Importance • Pros and cons of Globalization Practicum: Survey on identification of poor; Calculating the components of BoP of India	3
References (indicative) <ol style="list-style-type: none"> 1. Cohen, A.J. (2020). <i>Macroeconomics for Life: Smart Choices for All? + MyLab Economics with Pearson eText</i> (updated 2nd ed.). Toronto, ON: Pearson Canada Inc. Type: Textbook: ISBN: 9780136716532 2. Cohen, A.J. (2015). <i>Microeconomics for Life: Smart Choices for You + MyLab Economics with Pearson eText</i> (2nd ed.). Toronto, ON: Pearson Canada Inc. Type: Textbook: ISBN: 9780133899368 3. Case Karl E. and Fair Ray C. Principles of Economics, Pearson Education Asia, 2014. 4. Mankiw N. Gregory. Principles of Economics, Thomson, 2013. 5. Stiglitz J.E. and Walsh C.E. Principles of Economics, W.W. Norton & Co, New York, 2011. 		

Semester II

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

Course Pre-requisite(s):

Course Outcomes (COs):

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

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

Unit	Description	Hours
I	Characteristics of Karnataka Economy	12
	Chapter 1: State Income <ul style="list-style-type: none"> • State Domestic Product and PCI • Measures to redress regional imbalances 	2
	Chapter 2: Human and Natural Resources <ul style="list-style-type: none"> • Population • Human Development Index • Poverty and Unemployment– Anti-Poverty and Employment generation Programmes • Functioning of Panchayat Raj Institutions 	6
	Chapter 3: Natural Resources in Karnataka <ul style="list-style-type: none"> • Land, Water, Forest and mineral resources in Karnataka • Sustainable Development Goals • Karnataka environmental Policy Practicum:	4
II	Agriculture and Industries in Karnataka	18
	Chapter 4: Agriculture in Karnataka <ul style="list-style-type: none"> • Importance of Agriculture • Problems in Agriculture • Land Reforms • Cropping Pattern • Irrigation • Watershed Development • Dry Land Farming • Farmers Suicide – causes and solutions 	9
	Chapter 5: Rural Development <ul style="list-style-type: none"> • Public Distribution System • Rural Development Programmes. 	3
	Chapter 6: Industries in Karnataka <ul style="list-style-type: none"> • Major Industries in Karnataka - Problems and Prospects 	6

	<ul style="list-style-type: none"> • MSMEs - Problems and Measures • IT Industries in Karnataka • Industrial Finance in Karnataka • Industrial Policy of Karnataka Practicum:	
III	Infrastructure and Finances	12
	Chapter 7: Infrastructure in Karnataka <ul style="list-style-type: none"> • Transportation: Road, Rail, Water and Air Transport • Information and Communication Technology facilities; Chapter 8: Social Infrastructure <ul style="list-style-type: none"> • Drinking Water, Sanitation • Housing • Health and Education • Social Security in Karnataka Chapter 9: State Finance <ul style="list-style-type: none"> • Sources of Revenue: Direct and Indirect Taxes • GST – Impact and Collections • Sharing of Central Taxes and Grand-in-Aid • Expenditure Sources • States Indebtedness • State Finance Commission • State Budget Practicum:	3 4 5
References (indicative) <ol style="list-style-type: none"> 1. Government of Karnataka, Economic Survey [Various Issues] 2. Planning Department, Annual Publication, Government of Karnataka. 3. Karnataka at Glance, Annual Publication Government of Karnataka. 4. Madaiah M & Ramapriya. Karnataka Economy Growth: Issues and Development, Himalaya Pub., House, New Delhi. 5. Adul Aziz and K.G. Vasanti. (Eds) Karnataka Economy. 6. Government District Development Reports 7. Hanumantha Rao. Regional Disparities and Development in Karnataka. 8. Krishnaiah Gowda H.R. Karnataka Economy, Spandana Publications, Bangalore 9. Nanjundappa D.M. Some Aspects of Karnataka Economy. 10. Puttaswamiah K. Karnataka Economy, Two Volumes 		

Semester II

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

Course Pre-requisite(s):

Course Outcomes (COs):

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

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

Content of Course	42 Hrs
Unit – 1 LPG POLICIES, ECONOMIC REFORMS AND AGRICULTURE	14
Chapter No. 1 Recent Issues <ul style="list-style-type: none"> • Genesis and Impact of LPG • India's population policy • Demographic Dividend • India's human development in global perspective 	4
Chapter No. 2 Urbanization and governance <ul style="list-style-type: none"> • Urbanization and Smart City Mission • Informal sector • Impact of COVID-19 Pandemic • Atma Nirbhara Bharat Abhiyan 	4
Chapter No. 3 Economic Reforms and Agriculture <ul style="list-style-type: none"> • Agriculture and WTO • Price policy and Subsidies • Commercialisation and Diversification • Public Distribution System • Impact of public expenditure on agricultural growth • Agrarian Crisis, Doubling Farm Incomes, MGNREGS 	6
Practicum <ol style="list-style-type: none"> 3. Mini-project to ascertain the impact of pandemic on lives of different sections of population 4. Field visits to understand the agrarian situation 	
Unit – 2 INDUSTRY, BUSINESS, FISCAL POLICY	14
Chapter No. 4. Industrial Policy <ul style="list-style-type: none"> • New Industrial Policy and changes • Public sector reform • Privatisation and Disinvestment • Competition Policy 	4

Chapter No. 5. Business <ul style="list-style-type: none"> • Ease of Doing Business • Performance of MSMEs • Role of MNC's in Industrial Development • Make in India, development of economic and social infrastructure • National Monetization Pipeline <p>(The teacher should include the latest policy of the government)</p>	5
Chapter No. 6. Fiscal Policy <ul style="list-style-type: none"> • Tax, Expenditure, Budgetary deficits • Pension and Fiscal Reforms • Public debt management and reforms • Fiscal Responsibility and Budget Management (FRBM) Act • GST, Fiscal Federalism and Fiscal Consolidation • Recommendations of the Current Finance Commission 	5
Practicum: Mini-projects to assess the business climate	
Unit – 3 MONETARY POLICY, FOREIGN TRADE AND INVESTMENT	14
Chapter No. 7 Monetary Policy <ul style="list-style-type: none"> • Organisation of India's money market • Financial sector reforms • Interest rate policy • Review of monetary policy of RBI 	3
Chapter No. 8. Money and Capital Markets <ul style="list-style-type: none"> • Working of SEBI in India • Changing roles of the Reserve Bank of India • Commercial banks, • Development Finance Institutions • Foreign banks and Non-banking financial institutions • Analysis of price behaviour in India, Anti-inflationary measures • Demonetization and its impact 	5
Chapter No. 9. Foreign Trade and Investment <ul style="list-style-type: none"> • India's foreign trade • India Balance of payment since 1991 • New Exchange Rate Regime: Partial and full convertibility • Capital account convertibility • FDI – Trends and Patterns • New EXIM policy, WTO and India • Bilateral and Multilateral Trade Agreements and Associations 	6
Practicum: <ol style="list-style-type: none"> 3. Computation and analysis of Wholesale Price Index, Consumer Price Index: components and trends. 4. Group Discussions on India's trade policies and trade agreements 	
References <ul style="list-style-type: none"> • Bardhan, P.K. (9th Edition) (1999), The Political Economy of Development in India, Oxford University Press, New Delhi. • Bhaduri Amit, (2015), A Model of Development By Dispossession, Fourth Foundation • Byres Terence J. (ed.), (1998), The State, Development Planning and Liberalisation 'in India, Delhi, OUP • Dutt Ruddar and K.P.M Sundaram (2001): Indian Economy, S Chand & Co. Ltd. New Delhi. 	

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

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

Course Pre-requisite(s):

Course Outcomes (COs):

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

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

Unit	Description	Hrs
I	Environment, Development and Pollution	15
	Chapter 1: Meaning Characteristics of Environmental Goods and Services <ul style="list-style-type: none"> • Relationship between Environment and Development • Environmental Kuznets Curve – Meaning and Evidence • Sustainable Development – Meaning and Indicators Chapter 2: Resource Use and Management <ul style="list-style-type: none"> • Resource Taxonomy – Renewable and nonrenewable resources • Economic Theory of Depletable Resources • Optimal Use of Renewable Resources • Resource Scarcity and Economic Growth – Limits to Growth Model • Tragedy of Commons and common property Resources • Resource Pricing and Resource Conservation Chapter 3: Sustainable Development <ul style="list-style-type: none"> • Definitions, Objectives and Principles • Processes and Indicators of Sustainable Development • Approaches and Strategies for Sustainable Development • Environmental accounting Measures Practicum: Miniproject on impact of development on local environment	3 6 6
II	Sustainable Development Goals	10
	Chapter 4: Introduction and History <ul style="list-style-type: none"> • Brundtland Committee Recommendations • Rio Summit and Agenda 21 • SDGs: Goals, Targets and Indicators Chapter 5: Government and the SDGs <ul style="list-style-type: none"> • Planning • Localizing the SDGs • SDG Policy Instruments • Industrial Policies and the SDGs Chapter 6: Financing the SDGs <ul style="list-style-type: none"> • Types of financing • New financing mechanisms and global funds 	3 4 3

	Practicum: Assignments on Progress in attainment of various SDGs in India and her states	
III	Issues in Implementing SDGs	17
	Chapter 7: Means to Realizing the SDGs <ul style="list-style-type: none"> • Degrowth and circular economy • Sustainable production and consumption • Sustainable cities and transportation • Sustainable designs, technology, digital revolution and innovation • Renewable energy 	8
	Chapter 8: Implementing SDGs <ul style="list-style-type: none"> • governance and policy tools • openness, participation and accountability, • effectiveness and coherence; • India's framework for sustainable development 	5
	Chapter 9: Other Issues <ul style="list-style-type: none"> • Social business, CSOs, and operations • Development Assistance • Cross-Border Cooperation 	4
	Practicum: Group Discussion on case studies on sustainable practices and processes	
Suggested Readings: <ul style="list-style-type: none"> • Baumol, W.J. and W.E. Oates (1988): <i>The Theory of Environmental Policy</i> (2e), CUP, Cambridge. • Bhattacharya, R.N. (Ed): <i>Environmental Economics: An Indian Perspective</i>, OUP, New Delhi. • Dalby, Simon, et al. <i>Achieving the Sustainable Development Goals: Global Governance Challenges</i>. Routledge, 2019. • Day, G.S., and P.J.H. Schoemaker (2011), <i>Innovating in uncertain markets: 10 lessons for green technologies</i>, MIT Sloan Management Review, 52.4: 37-45. • Elliott, Jennifer. <i>An introduction to sustainable development</i>. Routledge, 2012. • Gagnon, B., Leduc, R., and Savard, L., <i>Sustainable development in engineering: a review of principles and definition of a conceptual framework</i>. Working Paper 08-18, 2008. • Hanley, Shogren and White (1997): <i>Environmental Economics in Theory and Practice</i>, Macmillan. • Kolstad, C.D. (1999): <i>Environmental Economics</i>, OUP, ND. • Pearce, D.W. and R. Turner (1991): <i>Economics of Natural Resource Use and Environment</i>, John Hopkins Press, Baltimore. • Sachs, Jeffrey D. <i>The age of sustainable development</i>. Columbia University Press, 2015 • Tietenberg, T. (1994): <i>Environmental Economics and Policy</i>, Harper Collins, NY. 		

Semester II

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

Course Pre-requisite(s):

Course Outcomes (COs):

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

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

Unit	Content of Course	42 Hrs
I	Introduction to Business Environment	12
	Chapter 1: Introduction <ul style="list-style-type: none"> • Meaning and definition, objectives, importance and uses of study of business environment. Environmental analysis • Meaning, process of environmental analysis, limitations of environmental analysis, environmental factors • The Micro environment of business and the macro environment of business. Chapter 2: Economic Environment <ul style="list-style-type: none"> • Meaning of Economic Environment • Characteristics of Indian economy • Impact of Liberalization Privatization & Globalization of Indian Business. • Monetary policy – Meaning, objectives • Fiscal policy – Meaning, objectives, budget and importance • EXIM policy – meaning and objectives • Industrial policy – meaning, objectives (Latest Policy Measures). Chapter 3: Global Business Environment <ul style="list-style-type: none"> • Meaning • Globalization: Nature and Impact of globalization • Challenges of international business • GATT and WTO and its implications on Indian economy. Practicum <ol style="list-style-type: none"> 1. Identification of the impact of business environment through surveys 2. Group discussion on WTO and its impact on Indian business 	 3 6 3
II	Non-Economic Environment	10
	Chapter 4: Social and Cultural Environment <ul style="list-style-type: none"> • Business and Society • Social Objectives of Business • Corporate Social Responsibility • Consumer Rights & Corporate Governance • Business Ethics Chapter 5: Technological Environment: <ul style="list-style-type: none"> • Meaning • Technological changes – R & D in India 	 4 2

	<ul style="list-style-type: none"> Public and Private Investment in R and D. <p>Chapter 6: Financial Environment</p> <ul style="list-style-type: none"> Introduction and Meaning An Overview of Indian Financial System Financial Institutions and their Roles Role of Foreign Direct Investment and its impact on Indian Business <p>Practicum: Students are expected to analyze the major economic and financial indicators such as GDP, Inflation, CPI, BSE, NSE, Currency, Gold rate, Oil barrel price etc., for a particular period of time and submit the report on the same.</p>	4
III	Government and Business in India	22
	<p>Chapter 7: Political Environment</p> <ul style="list-style-type: none"> Introduction and Meaning Political Environment and the Economic system Government and Business Relationship in India Provisions of Indian Constitution for Business <p>Chapter 8: Legal Environment of Business</p> <ul style="list-style-type: none"> Indian Company Law Competition policy and law Patents & Trademarks Industrial Policy- An overview Labor Laws & Social Security, Environmental Laws. <p>Chapter 9: Current Issues</p> <ul style="list-style-type: none"> Ease of Doing Business Performance of MSMEs Make in India, Development of economic and social infrastructure National Monetization Pipeline <p>(The teacher should include the latest policy of the government)</p> <p>Practicum: Students are expected to give a report on how the economic environment has affected the performance of any five large Indian Business Houses.</p>	<p>4</p> <p>8</p> <p>10</p>
	<p>REFERENCES:</p> <p>Francis Cherunilam: Business Environment, Himalaya Publishing House, Mumbai. K. V. Sivayya and VBM Das: Indian Industrial Economy, Sulthan Chand Publications, Delhi. M. Adhikari: Economic Environment of Business, Sulthan Chand and Sons, New Delhi. Raj Agarwal: Business Environment, Excel Publications, New Delhi.</p>	

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

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

Course Coe: B. Sc. 1.1

Name of the Course: Microeconomics

Course Credits	Number of Hours per Week	Total No of Teaching Hours
3 Credits	3 Hours	42 Hrs
Course Outcome: On Successful completion of the course, the student will be able to; <ol style="list-style-type: none"> 1. Analyse the economic behaviour of the consumer and the firm 2. Explain the relationship between various variables such as Input and output, cost and output, price of the product and quantity demand and so on 3. Product and Factor pricing under different market structure 		
Unit – 1 : Introduction to Economics, Demand and Supply		14
Chapter-1 introduction to Economics: Nature and scope of economics, Basic Concepts in economics, Importance of study of Economics, Understanding the economy, Mankiw's ten principles of economics		7
Chapter- 2: Demand: Meaning and Determinants of Demand, the Demand Schedule, The Law of Demand Exceptions to the Law of Demand, Elasticity of Demand: Meaning- Types: Price, Income and Cross Elasticity, Measurement of Elasticity of Demand		6
Chapter- 3: Supply: Concept of Supply, the Law of Supply, and Determinants of Supply.		1
Unit – 2 Theory of Demand and Production function		14
Chapter-4. Cardinal Analysis: Utility: Law of diminishing marginal utility, equi-marginal utility, consumer's equilibrium, Consumer surplus and its application		3
Chapter-5. Ordinal analysis: Meaning of Indifference curves- Indifference Schedule- Indifference Map, properties of Indifference curves Budget line-Equilibrium position, Income, Price and substitution effects -inferior goods v/s Geffen goods, Samuelson's revealed preference theory		6
Chapter-6. Production Function Production Function - The Law of Variable Proportion - the Law of Returns to Scale- Least cost combination of Inputs		5
Unit – 3: Cost, Revenue, Price and Output determination under different Markets		14
Chapter No. 7 Cost Concepts, Cost output relationship in the short-run and long-run		4
Chapter No. 8. Concepts of Revenue: Total, Average and Marginal Revenue Curve		1
Chapter No. 9. Price and Output determination under different market: Meaning and features of perfect competitive market, Monopoly, Monopolistic competition and oligopoly, Price and Output determination under these markets		9

Text Books

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

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

References

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

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

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

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

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

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

Course Coe: B. Sc. 1.2

Name of the Course: Mathematical for Economics

Course Credits	Number of Hours per Week	Total No of Teaching Hours
3 Credits	3 Hours	42 Hrs
Course Outcome: On Successful completion of the course, the student will be able to; <ol style="list-style-type: none"> 1. Perform basic operations in Vectors and Matrix algebra. 2. Calculate limits, derivatives and integrals of functions of multiple variables. 3. Calculate Optima for constrained and unconstrained optimization problems encountered in Economics. 		
Unit – 1: Basics of Mathematical Economics, Vectors, Matrices and Their applications		14
Chapter-1 Basics of Mathematical Economics: Nature of Mathematical Economics and its applications in Economic Analysis -Mathematical Model: Variables, Constants, Parameters, Equations and Identities- Sets: Set notation, operations, finite and infinite sets, laws of set operations		5
Chapter-2 Relations and Functions: Ordered pairs, relations and functions - Meaning and types of functions- constant function, polynomial functions, rational functions and non-algebraic functions. Simultaneous Equations- Vectors -vector spaces, linear dependence		4
Chapter-3 Matrices: Matrix Operations- Addition and Subtraction, Matrix Multiplication, Commutative, Associative and Distributive laws-Transpose - Inverse Matrix - Determinants: Properties, Rank of Matrix, Minor, Co-factor - Cramer's Rule, Derivation and its Applications in Economics		5
Unit – 2: Comparative Statics and Derivatives		14
Chapter- 4. Nature of Comparative Statics, Rate of Change and the Derivative -The concept of limit, limit theorems		3
Chapter–5: Continuity and Differentiability of a function – rules of differentiation of a function, Constant Functions, Linear, Power, Sums and Differences of Functions, Product of Functions, Quotient of Functions, Chain Rule, Exponential and Logarithmic Functions		5
Chapter - 6. Functions of Two or More Variables - Partial Derivatives, Higher Order Partial Derivatives, the Chain Rule and Total Derivatives- Maxima and Minima – One and two variables- Differential Equations- First Order Linear Differential Equations- Nonlinear First Order Differential Equations- Second Order Linear Differential Equations		6
Unit – 3: Integration and Optimization Techniques		14
Chapter - 7 Concept of Integration -Rules of Integration – Definite Integrals – Area and summation – Indefinite Integration.		4
Chapter - 8. Applications integrations in Economic Analysis-Consumers Surplus- Producers surplus-Obtaining primitive function from marginal function		5

Text Books

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

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

References

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

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

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

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

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

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

Semester I

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

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

Course Outcomes (COs):

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

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

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

Suggested readings:

1. Arthashastra of Kautilya by T. Ganapati Shastri, Chaukhambha Surbharti Prakashana, Varanasi, India, 2005.

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

Semester 1

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

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

Course Outcomes (COs):

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

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

Unit	Description	Hrs
I	Development: Meaning and Current Challenges	9
	Chapter 1: Meaning of Development	3
	<ul style="list-style-type: none"> • The concept of development, • Growth and Development • Transition from quantitative to qualitative indices 	
	Chapter 2: Modern economic growth	3
	<ul style="list-style-type: none"> • Characteristics of modern economic growth • Regional and global disparities • Common characteristics and dissimilarities among developing countries. 	
	Chapter 3: Current Development Challenges	3
	<ul style="list-style-type: none"> • Inequality • Migration • Conflicts 	
	Practicum:	
II	Approaches to Development	12
	Chapter 4: Development Ethics	2

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

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

Course Coe: B. Sc. 1.3.3 (OE)

Name of the Course: Managerial for Economics

Course Credits	Number of Hours per Week	Total No of Teaching Hours
3 Credits	3 Hours	42 Hrs
Course Outcome: On Successful completion of the course, the student will be able to; <ol style="list-style-type: none"> 1. Forecast the demand for goods and services 2. Analyse the efficiency of resource use in the production 3. Understand the determination of price and output under different market besides the methods of pricing in practice 		
Content of Course 1		42 Hrs
Unit – 1 Introduction to Managerial economics, Demand analysis and Forecasting		14
Chapter-1: Meaning, nature and scope of Managerial Economics- Organisation of business firms- General Objectives of business firms		3
Chapter-2: Application of Basic Economic Principles to Managerial Problems: Incremental, Discounting, Time Perspective, Opportunity Cost and Equi-Marginal Principle		5
Chapter-3: Demand and its determinants- Elasticity of demand; Meaning, types and determinants-Meaning and Objective Demand Forecasting - Methods of demand forecasting and their usefulness and limitations		6
Unit – 2 : Production Analysis, Cost Analysis and Determination of price		14
Chapter- 4.: Managerial applications of production function- Laws of returns and their applications -Least cost combinations of inputs		
Chapter - 5. Cost concepts and cost function- Cost-output relationship and its usefulness in production decision		
Chapter - 6. Price and output determination in various markets; Perfect competition, monopoly, monopolistic competition and oligopoly		
Unit – 3: Pricing Methods in Practice, Profit Management and Capital Budgeting		14
Chapter – 7: Pricing Methods in Practices: Specific Pricing Problems - Popular Pricing Practices: Cost-Oriented Pricing, Cost-Plus Pricing and Other Price Determinants, Peak - Load Pricing, Price over the Life Cycle of the Product, Penetration Price - Pricing of Multiple Products		5
Chapter – 8: Profit Analysis: Meaning of Profit - Accounting Profit and Economic Profit- Break-Even Analysis - Problems, Break-even Quantity, Break-Even Sales - Targeted Profit, Safety Margin.		5
Chapter – 9: Capital Budgeting: Meaning and Importance - Techniques: Payback Period and Net Present Value (NPV) Method.		4

Text Books

- Salvatore Dominick, (2014) Managerial Economics in a Global Economy, McGraw Hill Inc., New York.
- Mehta P.L., (2007) Managerial Economics: Analysis, Problems and Cases, Sultan Chand and Sons, New Delhi.

References

- Mc Guigon R. James, R. Charles Moyer, Frederick H Deb, Harris (2017) Managerial Economics: Applications, Strategy and Tactics, South Western, USA
- Keat Paul G. and Philip K.Y. Young, (2003) Managerial Economics- Economic Tools for Today's Decision Makers, Prentice Hall, New Jersey.
- Petersen H. Craig and W. Cris Lewis, (2006) Managerial Economics, Maxwell Macmillan International Editions, New York.
- Samuelson William F, and Stephen G. Marks, (2006) Managerial Economics, John Wiley and Sons, Inc., New Jersey

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

Course Coe: B. Sc. 2.1

Name of the Course: Macroeconomics

Course Credits	Number of Hours per Week	Total No of Teaching Hours
3 Credits	3 Hours	42 Hrs
Course Outcome: On Successful completion of the course, the student will be able to; <ol style="list-style-type: none"> 1. Explain the concept of National Income and methods of its estimation 2. Analyse the relationship between Macroeconomic variables 3. Understand the determination of income and employment under Classical and Keynesian framework 		
Unit – 1: Introduction to Macroeconomics and National Income accounting		14
Chapter-1: Introduction to Macroeconomics: Nature of Macroeconomics and its significance, Indicators of Macro Economic Activity - Key Concepts: Stock and flow variables.		3
Chapter-2 Building blocks of Macroeconomic Analysis: Aggregate Demand (AD) curve, Aggregate Supply (AS) curve, Sources of shift in AD an AS, Equilibrium in National Income and Price level, Unemployment and National Income, Inflation and Unemployment, Circular flow of Income, Goods market and Money Market		4
Chapter-3 National Income Accounting: Measurement of Macro Variables and Economic Performance: National Income Accounting - <i>Important Concepts:</i> GNP, GDP, NNP, NDP, NI, PI, DPI- Real GDP versus Nominal GDP- GDP deflator- <i>Method of estimating National Income-</i> Expenditure Method- Income method-Value added or Net Product method- Difficulties in National Income Accounting- Trends in GDP in India -GNP and Quality of Life - Net Economic Welfare - Green Income.		7
Unit – 2: Classical and Keynesian Macroeconomics		14
Chapter- 4. Classical Theory: Introduction to classical theory of employment - Basic Assumptions of the Classical School- Say's law of Market- Determinants of Output, Employment, Savings, Investment, Wages, Prices, Interest Rate - Equilibrium Output and Employment-Implications of Classical Full-Employment Model-Critical Evaluation.		5
Chapter - 5. Keynesian Macroeconomics: Principle of effective demand- Keynesian theory of output, income and employment- Equilibrium Income and Output in Simple Two Sector Model, Three Sector & Four Sector Models		4
Chapter- 6: Keyes Psychological law of consumption- An Overview of Post Keynesian theories of consumption: absolute income, relative income, permanent income & life cycle hypothesis- Multiplier and Accelerator Analysis -Marginal Efficiency of Capital- Relevance and Critique of Keynesian Macroeconomics		5
Unit – 3 Recent Debates in Macroeconomics		14
		4

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

Text Books

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

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

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

References

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

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

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

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

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

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

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

Course Coe: B. Sc. 2.2

Name of the Course: Statistics for Economics

Course Credits	Number of Hours per Week	Total No of Teaching Hours
3 Credits	3 Hours	42 Hrs
Course Outcome: On Successful completion of the course, the student will be able to; <ol style="list-style-type: none"> 1. Calculate basic descriptive and inferential statistics. 2. Interpret descriptive and inferential statistics. 3. Explain the process of hypothesis testing 		
Unit – 1: Basics of Statistics for economics, Measures of central tendency and dispersion		14
Chapter-1 Basics of Statistics for Economics: Why Study Statistics - Importance of Statistics in Economics- Descriptive and Inferential statistics -Data - Elements, Variables, and Observations, Scales of Measurement - Qualitative and Quantitative Data - Cross-Sectional and Time Series data- Data sources - Computers and Statistical Analysis		4
Chapter-2 Measures of Central Tendency: Arithmetic mean, median, mode, Geometric mean and Harmonic mean measurement and applications in Economics		5
Chapter-3 Measures of dispersion- Meaning and significance of measure of dispersion -Measurement and applications of Range , quartile deviation, mean deviation , standard deviation , variance and coefficient of variation		5
Unit – 2 Correlation, Regression, Time Series Analysis and Index Numbers		14
Chapter- 4. Correlation and Regression: Meaning and types of correlation, methods of computation of correlation coefficient –Karl Pearson’s method, Spearman’s rank correlation method- Regression –meaning and importance of regression analysis, simple regression lines and equations and forecasting (two variables only)		6
Chapter - 5. Time Series: Nature and Decomposition of Time Series - Analysis of Trend - Moving Average Method, Least-Square Method		3
Chapter - 6. Index Numbers: Nature and Purpose of Index Numbers - Types of Index Numbers: Price Index - Quantity Index, Link and Chain Index - Simple and Aggregate Index Numbers -Laspyre’s Index, Paasche’s Index, Marshall and Edgeworth's Index - Fisher’s Index – Time- Reversal and Factor Reversal Tests-Deflation and Splicing of Index Numbers - Problems in the Construction of Index Numbers - Limitation of Index Numbers.		5
Unit - 3 Introduction to Probability Distributions and Hypothesis Testing		14
Chapter - 7 Probability: Basic Concepts- Properties of Probability- Expected Values, Conditional Probability Random Variables: Discrete and Continuous		3
Chapter - 8. Probability Distributions - Probability Density Functions and Cumulative Distribution Functions – Expected values and Moments - The Binomial Probability Distribution, Poisson and Normal Distribution		6

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

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

References

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

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

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

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

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

Semester II

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

Course Pre-requisite(s):

Course Outcomes (COs):

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

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

Content of Course	42 Hrs
Unit – 1 LPG POLICIES, ECONOMIC REFORMS AND AGRICULTURE	14
Chapter No. 1 Recent Issues <ul style="list-style-type: none"> • Genesis and Impact of LPG • India's population policy • Demographic Dividend • India's human development in global perspective 	4
Chapter No. 2 Urbanization and governance <ul style="list-style-type: none"> • Urbanization and Smart City Mission • Informal sector • Impact of COVID-19 Pandemic • Atma Nirbhara Bharat Abhiyan 	4
Chapter No. 3 Economic Reforms and Agriculture <ul style="list-style-type: none"> • Agriculture and WTO • Price policy and Subsidies • Commercialisation and Diversification • Public Distribution System • Impact of public expenditure on agricultural growth • Agrarian Crisis, Doubling Farm Incomes, MGNREGS 	6
Practicum <ol style="list-style-type: none"> 5. Mini-project to ascertain the impact of pandemic on lives of different sections of population 6. Field visits to understand the agrarian situation 	
Unit – 2 INDUSTRY, BUSINESS, FISCAL POLICY	14
Chapter No. 4. Industrial Policy <ul style="list-style-type: none"> • New Industrial Policy and changes • Public sector reform • Privatisation and Disinvestment • Competition Policy 	4

<p>Chapter No. 5. Business</p> <ul style="list-style-type: none"> • Ease of Doing Business • Performance of MSMEs • Role of MNC's in Industrial Development • Make in India, development of economic and social infrastructure • National Monetization Pipeline <p>(The teacher should include the latest policy of the government)</p> <p>Chapter No. 6. Fiscal Policy</p> <ul style="list-style-type: none"> • Tax, Expenditure, Budgetary deficits • Pension and Fiscal Reforms • Public debt management and reforms • Fiscal Responsibility and Budget Management (FRBM) Act • GST, Fiscal Federalism and Fiscal Consolidation • Recommendations of the Current Finance Commission <p>Practicum: Mini-projects to assess the business climate</p>	5
<p>Unit – 3 MONETARY POLICY, FOREIGN TRADE AND INVESTMENT</p>	14
<p>Chapter No. 7 Monetary Policy</p> <ul style="list-style-type: none"> • Organisation of India's money market • Financial sector reforms • Interest rate policy • Review of monetary policy of RBI <p>Chapter No. 8. Money and Capital Markets</p> <ul style="list-style-type: none"> • Working of SEBI in India • Changing roles of the Reserve Bank of India • Commercial banks, • Development Finance Institutions • Foreign banks and Non-banking financial institutions • Analysis of price behaviour in India, Anti-inflationary measures • Demonetization and its impact 	3
<p>Chapter No. 9. Foreign Trade and Investment</p> <ul style="list-style-type: none"> • India's foreign trade • India Balance of payment since 1991 • New Exchange Rate Regime: Partial and full convertibility • Capital account convertibility • FDI – Trends and Patterns • New EXIM policy, WTO and India • Bilateral and Multilateral Trade Agreements and Associations 	5
<p>Practicum:</p> <ol style="list-style-type: none"> 5. Computation and analysis of Wholesale Price Index, Consumer Price Index: components and trends. 6. Group Discussions on India's trade policies and trade agreements 	6
<p>References</p> <ul style="list-style-type: none"> • Bardhan, P.K. (9th Edition) (1999), The Political Economy of Development in India, Oxford University Press, New Delhi. • Bhaduri Amit, (2015), A Model of Development By Dispossession, Fourth Foundation • Byres Terence J. (ed.), (1998), The State, Development Planning and Liberalisation 'in India, Delhi, OUP • Dutt Ruddar and K.P.M Sundaram (2001): Indian Economy, S Chand & Co. Ltd. New Delhi. 	

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

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

Course Pre-requisite(s):

Course Outcomes (COs):

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

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

Unit	Description	Hrs
I	Environment, Development and Pollution	15
	Chapter 1: Meaning Characteristics of Environmental Goods and Services <ul style="list-style-type: none"> • Relationship between Environment and Development • Environmental Kuznets Curve – Meaning and Evidence • Sustainable Development – Meaning and Indicators Chapter 2: Resource Use and Management <ul style="list-style-type: none"> • Resource Taxonomy – Renewable and nonrenewable resources • Economic Theory of Depletable Resources • Optimal Use of Renewable Resources • Resource Scarcity and Economic Growth – Limits to Growth Model • Tragedy of Commons and common property Resources • Resource Pricing and Resource Conservation Chapter 3: Sustainable Development <ul style="list-style-type: none"> • Definitions, Objectives and Principles • Processes and Indicators of Sustainable Development • Approaches and Strategies for Sustainable Development • Environmental accounting Measures Practicum: Miniproject on impact of development on local environment	3 6 6
II	Sustainable Development Goals	10
	Chapter 4: Introduction and History <ul style="list-style-type: none"> • Brundtland Committee Recommendations • Rio Summit and Agenda 21 • SDGs: Goals, Targets and Indicators Chapter 5: Government and the SDGs <ul style="list-style-type: none"> • Planning • Localizing the SDGs • SDG Policy Instruments • Industrial Policies and the SDGs Chapter 6: Financing the SDGs <ul style="list-style-type: none"> • Types of financing • New financing mechanisms and global funds 	3 4 3

	Practicum: Assignments on Progress in attainment of various SDGs in India and her states	
III	Issues in Implementing SDGs	17
	Chapter 7: Means to Realizing the SDGs <ul style="list-style-type: none"> • Degrowth and circular economy • Sustainable production and consumption • Sustainable cities and transportation • Sustainable designs, technology, digital revolution and innovation • Renewable energy 	8
	Chapter 8: Implementing SDGs <ul style="list-style-type: none"> • governance and policy tools • openness, participation and accountability, • effectiveness and coherence; • India's framework for sustainable development 	5
	Chapter 9: Other Issues <ul style="list-style-type: none"> • Social business, CSOs, and operations • Development Assistance • Cross-Border Cooperation 	4
	Practicum: Group Discussion on case studies on sustainable practices and processes	
Suggested Readings: <ul style="list-style-type: none"> • Baumol, W.J. and W.E. Oates (1988): <i>The Theory of Environmental Policy</i> (2e), CUP, Cambridge. • Bhattacharya, R.N. (Ed): <i>Environmental Economics: An Indian Perspective</i>, OUP, New Delhi. • Dalby, Simon, et al. <i>Achieving the Sustainable Development Goals: Global Governance Challenges</i>. Routledge, 2019. • Day, G.S., and P.J.H. Schoemaker (2011), <i>Innovating in uncertain markets: 10 lessons for green technologies</i>, MIT Sloan Management Review, 52.4: 37-45. • Elliott, Jennifer. <i>An introduction to sustainable development</i>. Routledge, 2012. • Gagnon, B., Leduc, R., and Savard, L., <i>Sustainable development in engineering: a review of principles and definition of a conceptual framework</i>. Working Paper 08-18, 2008. • Hanley, Shogren and White (1997): <i>Environmental Economics in Theory and Practice</i>, Macmillan. • Kolstad, C.D. (1999): <i>Environmental Economics</i>, OUP, ND. • Pearce, D.W. and R. Turner (1991): <i>Economics of Natural Resource Use and Environment</i>, John Hopkins Press, Baltimore. • Sachs, Jeffrey D. <i>The age of sustainable development</i>. Columbia University Press, 2015 • Tietenberg, T. (1994): <i>Environmental Economics and Policy</i>, Harper Collins, NY. 		

Semester II

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

Course Pre-requisite(s):

Course Outcomes (COs):

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

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

Unit	Content of Course	42 Hrs
I	Introduction to Business Environment	12
	Chapter 1: Introduction <ul style="list-style-type: none"> • Meaning and definition, objectives, importance and uses of study of business environment. Environmental analysis • Meaning, process of environmental analysis, limitations of environmental analysis, environmental factors • The Micro environment of business and the macro environment of business. Chapter 2: Economic Environment <ul style="list-style-type: none"> • Meaning of Economic Environment • Characteristics of Indian economy • Impact of Liberalization Privatization & Globalization of Indian Business. • Monetary policy – Meaning, objectives • Fiscal policy – Meaning, objectives, budget and importance • EXIM policy – meaning and objectives • Industrial policy – meaning, objectives (Latest Policy Measures). Chapter 3: Global Business Environment <ul style="list-style-type: none"> • Meaning • Globalization: Nature and Impact of globalization • Challenges of international business • GATT and WTO and its implications on Indian economy. Practicum <ol style="list-style-type: none"> 3. Identification of the impact of business environment through surveys 4. Group discussion on WTO and its impact on Indian business 	 3 6 3
II	Non-Economic Environment	10
	Chapter 4: Social and Cultural Environment <ul style="list-style-type: none"> • Business and Society • Social Objectives of Business • Corporate Social Responsibility • Consumer Rights & Corporate Governance • Business Ethics Chapter 5: Technological Environment: <ul style="list-style-type: none"> • Meaning • Technological changes – R & D in India 	 4 2

	<ul style="list-style-type: none"> Public and Private Investment in R and D. <p>Chapter 6: Financial Environment</p> <ul style="list-style-type: none"> Introduction and Meaning An Overview of Indian Financial System Financial Institutions and their Roles Role of Foreign Direct Investment and its impact on Indian Business <p>Practicum: Students are expected to analyze the major economic and financial indicators such as GDP, Inflation, CPI, BSE, NSE, Currency, Gold rate, Oil barrel price etc., for a particular period of time and submit the report on the same.</p>	4
III	Government and Business in India	22
	<p>Chapter 7: Political Environment</p> <ul style="list-style-type: none"> Introduction and Meaning Political Environment and the Economic system Government and Business Relationship in India Provisions of Indian Constitution for Business <p>Chapter 8: Legal Environment of Business</p> <ul style="list-style-type: none"> Indian Company Law Competition policy and law Patents & Trademarks Industrial Policy- An overview Labor Laws & Social Security, Environmental Laws. <p>Chapter 9: Current Issues</p> <ul style="list-style-type: none"> Ease of Doing Business Performance of MSMEs Make in India, Development of economic and social infrastructure National Monetization Pipeline <p>(The teacher should include the latest policy of the government)</p> <p>Practicum: Students are expected to give a report on how the economic environment has affected the performance of any five large Indian Business Houses.</p>	<p>4</p> <p>8</p> <p>10</p>
	<p>REFERENCES:</p> <p>Francis Cherunilam: Business Environment, Himalaya Publishing House, Mumbai. K. V. Sivayya and VBM Das: Indian Industrial Economy, Sulthan Chand Publications, Delhi. M. Adhikari: Economic Environment of Business, Sulthan Chand and Sons, New Delhi. Raj Agarwal: Business Environment, Excel Publications, New Delhi.</p>	



Bengaluru North University
ಬೆಂಗಳೂರು ಉತ್ತರ ವಿಶ್ವವಿದ್ಯಾಲಯ

Four-Year B.A (Hons.), B. Sc. (Hons.), Program

ECONOMICS SYLLABUS
FOR
III AND IV SEMESTER

AS PER N E P -2020

WITH EFFECT FROM ACADEMIC YEAR 2022-23
ONWARDS

BANGALURU NORTH UNIVERSITY, BENGALURU

Request to Fellow Teachers;

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

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

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

- S.R.Keshava

Acknowledgement

The Chairperson and Members thank Honourable Vice-Chancellor Prof. Niranjan Vanalli, for the opportunity provided to serve in BOS. Also, thank Registrar Dr. Venkatesha Murthy for the Logistics.

BOS Members

Dr.S.R.Keshava	Chairperson
Prof.Prathibha Parshwanath,	Member
Prof. Brunda Devi A	Member
Dr.Komala A C	Member
Dr. Madhusudhana H S	Member
Dr.C.L Gayathri Devi	Member
Dr. Surappa Naik	Member

Formative Assessment

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

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

Note: Strictly follow the Practicum

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

(Objective type/multiple choice)

Answer any **ten** of the following in 2-3 sentences each. Each question carries **2** marks.

(10X2= 20)

1.

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

Section B

(Questions for testing the knowledge of theories and application)

Answer any **Four** of the following in **15-20** sentences each. **Each** question carries **5** marks:

(4X5=20)

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

Part C

(Questions for testing the critical ability of understanding)

Answer any **Two** of the following not exceeding 3 pages. Each question carries **10** marks.

(2X10=20)

- 8.
- 9.
- 10.
- 11.

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

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

Semester III

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

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

CO1. Understand introductory economic concepts.

CO2. Recognize basic supply and demand analysis.

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

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

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

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

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

<ul style="list-style-type: none">➤ Prepare assignment on Consumer's equilibrium through indifference curve analysis➤ Seminar on Concepts of Micro Economics➤ Conducting a consumer survey to understand their tastes and preferences			
Unit -2:	Production and Costs		14 hours
	Chapter 3	The Firms: Concept of firm and Industry; Production Function with Two variable inputs: Properties of Isoquant, isocost line and least cost combination of inputs; Production function with all variable inputs (Returns to Scale); Features of Cobb-Douglas Production Function	8 hrs.
	Chapter 4	Cost of Production: Cost function and estimation: Linear and Non-Linear (cubic and quadratic) and applications; Economies and Diseconomies of scale	6 hrs.
Practicum: <ul style="list-style-type: none">➤ Group Discussion on Economies and Diseconomies of scale➤ Project work on cost functions and cost estimations			
Unit -3:	Price Determination of products and factors		14 hours
	Chapter 5	The Markets -I: Perfect Competition: Price determination of an industry under different time periods and equilibrium of firm under short run and long run; (some numerical exercises) Monopoly pricing and price discrimination; (some numerical exercises)	4 hrs
	Chapter 6	The Markets-II: Pricing under Monopolistic Competition; equilibrium of firm under product differentiation and selling costs; Oligopoly – Interdependence and price rigidity, Collusive (Cartels and Price leadership) and non-collusive oligopoly (Cournot model); Elements of Game theory (players, strategy, Payoff matrix)	5 hrs
	Chapter 7	The Inputs (Factors) Functional and Personal Income; Marginal Productivity Theory of Distribution; Modern theory of distribution; Concepts related to rent, wage, interest and profit.	5 hrs
Practicum: <ul style="list-style-type: none">➤ Conducting Market Survey to identify the nature and features of markets for different goods/services➤ Understanding the distribution of national income as factor incomes			

Pedagogy: Classroom lectures, tutorials, Problem-solving exercise

Note: Strictly follow the Practicum

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

Semester III

Course Title Mathematics for Economics

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

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

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

Pedagogy: Classroom lecture, tutorials, Problem solving exercise

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

Semester III

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

Course Outcomes (COs):

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

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

Contents	42 Hrs.
Unit–1: Agriculture and Economic Development	14 hrs.
Chapter 1: Introduction to Agricultural Economics <ul style="list-style-type: none"> Definition and scope of agricultural economics Need for special techniques of economic analysis to deal with unique problems of the agricultural economy Seasonality, perishability, and heterogeneity of output The Organisation of agricultural production – Role of Land, Labour, Capital, and entrepreneurship 	5
Chapter 2: Agriculture in Economic Development <ul style="list-style-type: none"> Role of Agriculture in Economic Development. Diversification of agriculture: Agriculture and allied activities (fisheries, horticulture, floriculture). Interdependence between agriculture and industry 	4
Chapter 3: Structural changes and Agriculture in India <ul style="list-style-type: none"> Traditional agriculture and its modernisation Changes in the share of agriculture to G.D.P., reasons, and way forward Changes in the percentage of employment generated by agriculture in the total workforce- reasons and way forward 	5
Practicum:	

<ul style="list-style-type: none"> • Visit a few nearby agricultural farms, discussing with farmers about crops grown, productivity, farm practices and the problems the farmers are facing, and the solutions. Then writing an assignment • Group Discussions on the declining contribution of agriculture to G.D.P. 	
Unit – 2 Theory of agricultural growth and development	12 Hrs
Chapter 4: Transformation of traditional agriculture <ul style="list-style-type: none"> • Schultz's transformation of traditional Agriculture • Mellor Model of agricultural development 	2
Chapter 5: Dual economy models and other theories <ul style="list-style-type: none"> • Jorgenson's Model of Development of Dual Economy • Arthur Lewis's theory of Unlimited supplies of Labour • Fei-Ranis Model of Economic growth • Todaro Model of Rural-Urban Migration and Unemployment 	6
Practicum: <ol style="list-style-type: none"> 1. Group Discussions on various Agricultural growth and development theories. 2. Debate on the relevance of the agricultural theories in the present agricultural situation in India 	4
Unit -3: Strategy of Agricultural Development in India	16 Hrs
Chapter 6: Land Reforms and Policy <ul style="list-style-type: none"> • Resource Allocation and Capital Formation. • Institutional v/s Technological Factors. • Pre-Land Reform Agrarian Scenario, • Post-Independence Agrarian Reforms, Legislation, and Implementation • Abolition of Intermediaries: Tenancy Reforms, Ceiling Legislation Implementation • Role of Technological factors in Agricultural Growth: High Yielding Varieties of Seeds, Irrigation and Water, Fertilisers, Mechanisation • Economic Reforms and Agriculture, • W.T.O. and Indian Agriculture 	4
Chapter 7: Agriculture Finance <ul style="list-style-type: none"> • Role, Importance and features of Agricultural Finance • Basic economic principles and Criteria involved in Finance, • Need for Agriculture credit. • Estimates of Rural Financial Requirements. • The extent of Agricultural Finance • Problems of Agricultural Finance and suggestions to improve Agricultural Finance • Sources of Agricultural Finance; Institutional and Non -Institutional Credit Financing through N.A.B.A.R.D., Co-operatives, Commercial Banks and RRBs. • Money Lenders; Role, Defects, Regulations, and Reasons for money lenders still one being one of the sources. • Financial Institutions and credit flow to the rural/priority sector • Micro-Financing and Role of M.F.I.'s, N.G.O.'s and S.H.G.'s. 	6
Chapter 8: Agricultural Marketing <ul style="list-style-type: none"> • Definition and need for an efficient Marketing System • Nature of Demand for Farm Products. 	6

<ul style="list-style-type: none"> • Structure of Agricultural Product Markets. • Functions of Marketing • Present System of Indian Agricultural Marketing; Problems of Indian Agricultural Marketing • Government Measures to improve Indian Agricultural Marketing 	
Practicum <ol style="list-style-type: none"> 1. Write an assignment on the impact of land reforms in India 2. Discuss the maximum acres of agricultural land an individual can own in Karnataka vis-a-vis other states. 3. Quiz on the strategy of agricultural development in India 	

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

Note: Strictly follow the Practicum

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

Semester III

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

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

CO1. To Understand the basics of rural development,

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

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

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

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

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

Chapter:3 - Poverty and Unemployment in Rural India Meaning and Measurement of Poverty Causes of Poverty Farm and Non-Farm Employment Measurement and Types of Employment Review of Poverty Alleviation and Employment Generation Programmes in India	4
Practicum: <ul style="list-style-type: none"> • Field visit to a nearby village and study the poverty situation • Field visit to the village and study the employment pattern Undertake an evaluation study on employment generation programmes and prepare an assignment.	
Unit -2:	14 Hrs
Chapter 4- Rural Enterprises Meaning and Importance, Classification of MSME Progress and Problems of MSME Khadi and Village Industries	5
Chapter 5: Rural Banking and Finance Credit Co-operative Societies Regional Rural Banks Role of NABARD Microfinance Institutions	4
Chapter-6: Rural Infrastructure Educational and Health Infrastructure Housing and Sanitation Drinking Water Supply Rural Transport and CommunicationRural Electrification	5
Practicum: <ul style="list-style-type: none"> • Write an assignment on Rural Infrastructure • Write a report on rural industries 	
Unit -3:	14 Hrs
Chapter 7- Rural Development Programmes Wage Employment Programmes Self-employment and Entrepreneurship Development Programmes Rural Housing Programmes Rural Sanitation Programmes	4

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

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

Semester III

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

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

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

CO2. Acquaint with the conceptual framework of Insurance

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

CO4. Gain Knowledge relating to Insurance Documentation and Insurance legislation

Contents	42 Hrs
Unit-1: Introduction to Economics of Insurance	14
Chapter:1 - Fundamentals of Economics of Insurance <ul style="list-style-type: none"> ➤ Definition of Insurance ➤ Scope of economic insurance ➤ Importance of insurance 	4
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 	5
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 	5
Unit -2: Insurance Planning	14
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 	4

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 	5
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 	5
Unit -3: personal insurance / Health Insurance	14 Hrs.
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 	3
Chapter 8 - Insurance Documentation <ul style="list-style-type: none"> ➤ Health Insurance products, Health Insurance underwriting ➤ Health Insurance claims 	3
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 	8

Pedagogy: Classroom lectures, tutorials, Problem-solving exercise

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

Semester III

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

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

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

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

Pedagogy: Classroom lectures, tutorials, Problem-solving exercise

References	
1	Chelliah, Raja J. and R. Sudarshan (eds.), 1999, Income Poverty and Beyond: Human Development in India, UNDP, Social Science Press, New Delhi
2	Dev, S. Mahendra, Piush Antony, V. Gayathri, and R.P. 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), ICFAIUNIVERSITY PRESS
9	Rao, T.V and Pareek, Udai (2005) Designing and Managing Human Resource Systems, Oxford IBH Pub. Pvt.Ltd., New Delhi.
10	Rao, T.V: Readings in HRD, Oxford IBH Pub. Pvt. Ltd., New Delhi,
11	Viramani, B.R and Seth, Parmila: Evaluating Management Development, Vision Books, New Delhi.
12	Rao, T.V. (et.al)(2003) HRD in the New Economic Environment, Tata McGraw-Hill Pub.Pvt, Ltd., New Delhi ,.
13	Rao, T.V: Human Resource Development, Sage Publications, New Delhi.
14	Viramani, B.R and Rao, Kala: Economic Restructuring, Technology Transfer and Human Resource Development, Response Books, New Delhi

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

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

Semester IV

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

Course Outcomes (COs): After the successful completion of the course, the student will be able to: CO1: Acquire knowledge on the circular flow of income in two sectors, three and four-sector model CO2: Understand and learn the calculation of national income CO 3: Appreciate the classical and Keynesian theory of Employment CO 4: Understand the concepts of multiplier and accelerator and leaning the simple Calculation on the working of Multiplier and Accelerator CO 5: Acquire knowledge of the determinants of the Investment function			
Contents			42 Hrs.
Unit 1	Introduction to Macro Economics and National Income Accounting		14 hours
	Chapter 1	Introduction to Macro Economics Meaning, Importance and limitation Meaning of stock and flows	3 hrs
	Chapter 2	Circular Flow of Income The importance of the circular flow model Two sectors Model, Three sectors Model Four sectors Model	5 hrs.
	Chapter 3	National Income Accounting National income accounting: meaning and definition- Accounting Concepts, importance, Methods and difficulties in measuring national income- ways to increase national income- empirical problems – calculation of national income. GNP and Quality of life- Green accounting.	6 hrs
Practicum: a) Assignment on the Circular flow of Income in two, three and four sector model b) Work out the numerical exercise on the calculation of National Income			
Unit 2	Theory of Income Determination		20 hours

	Chapter 4	The Classical theory of Employment 1. Features; and Assumptions 2. Say's Law; 3. Pigou's wage-price flexibility 4. Classical dichotomy and neutrality of money 5. Critical Evaluation	6hrs
	Chapter 5	Keynesian Framework 1. Some Basic concepts: The idea of equilibrium and identity ex-ante and ex-post concepts. 2. Aggregate Demand and its components 3. Aggregate Supply: Meaning and graphical explanation; 4. Effective demand	4hrs
	Chapter 6	Keynes Consumption function: 1. Consumption Function: Algebraic and Graphical explanation; 2. Marginal and Average propensity to consume 3. Determinants of consumption function	5hrs
	Chapter 7	Keynes's Investment function; 1. Investment function: 2. Autonomous and Induced 3. Determinants of Investment function: rate of interest and the marginal efficiency of capital (MEC) 4. Factors influencing MEC 5. MEI and Capital Accumulation,	5hrs
Practicum: <ul style="list-style-type: none"> Graphical and Algebraic explanation of the psychological law of consumption Seminar on the effective demand Leaning the simple numerical calculation of MEC taking a hypothetical example 			
Unit 3	Concepts of Multiplier and Accelerator		8 hrs
	Chapter 8	Investment Multiplier 1. Investment Multiplier: Meaning, 2. Assumptions 3. The process of working 4. leakages 5. Criticism	4 hrs
	Chapter 9	Accelerator 1. Accelerator: Meaning 2. Assumptions 3. The process of working 4. Limitations and Criticisms 5. Interaction of Multiplier and Accelerator	4 hrs
Practicum: <ul style="list-style-type: none"> Leaning the simple numerical calculation of the working of the Investment Multiplier Leaning the simple numerical calculation of the working of the Accelerator Group discussion on the interaction of Multiplier and Accelerator and its application. 			

References

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

Semester IV

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

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

CO1. Understand the nature of Data and their presentation

CO2. Calculate Descriptive statistics like measures of central tendency and dispersion

CO3. Apply statistical techniques like correlation and regression in Economic analysis

Contents	42 Hrs
Unit-1: Preliminaries	12 Hrs
Chapter:1 Introduction to Statistics: Meaning and Importance of Statistics, Functions of Statistics, Types of Statistics: Descriptive Statistics and Inferential Statistics-Variables; Qualitative Variable and Quantitative Variable	4
Chapter 2: Datatypes, Sources and Collection of Data: Qualitative and Quantitative Data - Cross Section Data, Time Series Data and Panel Data - Primary and Secondary sources of Data – Methods of Collecting Primary Data	4
Chapter-3: Tabulation and Presentation of Data: Classification and tabulation of data - Frequency distributions – Continuous and Discrete frequency distribution. Graphical presentation- Histogram- frequency polygon - Ogive Curves -Bar Diagram, Pie Chart	4
Unit -2: Measures of Central Tendency and Dispersion	14 Hrs
Chapter-4: Arithmetic Average: Definition of Central Tendency, Types of Central Tendency: Arithmetic Mean: Meaning and Properties of Arithmetic Mean – Computation of Arithmetic Mean	5
Chapter-5: Positional Averages-Median and Mode: Definition and importance of Median- Calculation of Median- Definition and importance of Mode - Calculation of Mode.	4

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

Pedagogy: Classroom lecture, tutorials, Problem solving exercise

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

Semester IV

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

Course Outcomes (COs): After the successful completion of the course, the student will be able to: CO1: Acquire knowledge of the supply and demand of Money CO2: Understand and interest in determination theories. CO 3: Appreciate the Implications for Monetary Management CO 4: Understand the relationship between inflation and unemployment CO 5: Acquire knowledge of the working of business cycles			
Contents			42 Hrs.
Unit 1	Money and the Economy		14 Hrs.
	Chapter 1	Money Supply: <ol style="list-style-type: none"> 1. Definitions of Money supply; 2. Money supply and Value of Money; 3. Classical and Keynesian views on the supply of money, 4. Determinants of money supply, <ol style="list-style-type: none"> a. High-powered money, b. money multiplier 5. The reserve ratio and deposit multiplier 	6 hrs.
	Chapter 2	Definition of money supply in India <ol style="list-style-type: none"> 1. Money supply measures by RBI M1, M2, M3, M4 2. Liquidity Aggregates – L1, L2, and L3 3. Trends of Money Supply in India 	3 hrs.
	Chapter 3	Demand for Money; <ol style="list-style-type: none"> 1. Meaning and Importance 2. The Classical Approach, 3. The Keynesian Approach, 4. Liquidity preference, 5. The Post- Keynesian Approaches 6. Friedman’s Theory of the Demand for Money 	5 hrs.

Practicum: <ul style="list-style-type: none"> • Work out the numerical exercise on the working of the money multiplier • Assignment on Classical and Keynesian views on the Supply of money 			
Unit 2	Module: Interest Rate theories and Interest Rates		12 hours
	Chapter 4	Theories of Interest Rate determination <ol style="list-style-type: none"> 1. Classical Theory of Interest 2. Neo-Classical or the loanable fund's theory of interest, 3. Keynes's liquidity preference theory of interest 4. Modern theories of interest; IS-LM Curve Approach 	7 hrs.
	Chapter 5	Interest Rates <ol style="list-style-type: none"> 1. Interest rate and investment, Income and output 2. Heterogeneity of Interest Rate Determination: Administered Interest Rates and Market Determined Interest Rates 3. Interest rates and Demand for Money 	5 hrs.
Practicum: <ul style="list-style-type: none"> • Visit a commercial bank or cooperative bank and learn the interest rates for various loans and write an assignment • Write the assignment on interest determination theories. 			
Unit 3	Inflation, Monetary Policy and Business Cycle		16 Hrs.
	Chapter 6	Inflation <ul style="list-style-type: none"> • Definitions of Inflation, • causes of Inflation, • Types of Inflation-demand push inflation and cost-push inflation; inflationary gap; • Effects of Inflation, • Measures to control Inflation • Relationship between inflation and unemployment- The Philips curve-short and long run 	6 hrs.
	Chapter 7	Monetary policy <ul style="list-style-type: none"> • Monetary policy: Meaning, objectives • Measures of Monetary policy • The Time Lags in the Monetary Policy • The efficiency of Monetary Policy • Implications for Monetary Management. • Limitations of Monetary Policy • Monetary policy in India and control of Inflation 	6 hrs.
	Chapter 8	Business Cycles Meaning, Types of the business cycle, Features of the business cycle Phases of the businesscycle; Control of Business Cycles.	4 hrs.

Practicum:

- Visit the market for four successive weeks on scheduled dates and see the change in the select food items and write an assignment.
- Derive the graphical model showing the relationship between unemployment and inflation using the short-run Phillips curve and the long-run Phillips curve

References

1. Crowther Geoffrey (1940), An Outline of Money, Thomas Nelson and sons Ltd. London
2. Dernburg and McDougal (1985), Macro Economics, McGraw Hill Education, New York
3. Gupta S.B. (2010), Monetary Economics, S. Chand and Company.
4. Hanson Alvin H. (1949), Monetary Theory and Policy, McGraw Hill Publication
5. Hanson J.L. (1970), Monetary Theory and Practice, McDonald's and Evans Ltd. London
6. Schumpeter J.A. (1939), Business Cycles, McGraw Hill Publication
7. Seth M.L. (2017), Macro Economics, Laxminarayan Agarwal Publication
8. Vaish M.C. (2009). Monetary Policy, Vikas Publishing House New Delhi

Semester IV

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

Course Outcomes (COs): After the successful completion of the course, the student will be able to: CO1. Understand the nature of economic growth and problems of Karnataka state. CO2. Explain the process of structural growth in Karnataka's Economy CO3. Evaluate the policies and programmes undertaken by the Govt. of Karnataka for bringing about socio-economic development	
Contents	42 Hrs
Unit-1: Karnataka Economy – An overview	12 Hrs
Chapter:1 Characteristics of Karnataka Economy <ul style="list-style-type: none"> ○ Features of Karnataka Economy ○ Trends and sectoral distribution of State Domestic Product and Per Capita Income ○ Measures to redress regional imbalances – Dr. Nanjundappa Committee Report, Article 371J 	5
Chapter-2: Human Resources <ul style="list-style-type: none"> ○ Human Resources: importance, Size and Health indicators ○ Human Development Index ○ Poverty and Unemployment– Eradication Programmes 	4
Chapter-3: Natural Resources Management <ul style="list-style-type: none"> ○ Natural Resources: Importance and volume of different natural resources ○ Karnataka Environmental Policy 	3
Practicum: conduct field visit to Forest/Reservoir/Mining and prepare the report	
Unit -2: Agriculture, Rural development, and Industries in Karnataka	18 Hrs
Chapter-4: Agriculture <ul style="list-style-type: none"> ○ Problems in Agriculture ○ Land Reforms 	7

<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 	4
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	12 Hrs
Chapter-7: Economic Infrastructure <ul style="list-style-type: none"> ○ Transportation: Road, Rail, Water and Air Transport ○ Information and Communication Technology Facilities 	3
Chapter-8: Social Infrastructure <ul style="list-style-type: none"> ○ Drinking Water ○ Housing and Sanitation ○ Health and Education ○ Rural Electrification 	4
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	

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

Semester IV

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

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

Unit -3: Business and Entrepreneurial development	12 Hrs
<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.
9	Singh, Nagendra P. Emerging Trends in Entrepreneurship Development. New Delhi: ASEED.
10	Entrepreneurship Development and Business Ethics - M K Nabi, K C Rout, Vrinda Publications (P) Ltd
11	Robert Hisrich and Michael Peters, Entrepreneurship, Tata Mc Graw– Hill Vasant Desai, Entrepreneurship
12	Marc J Dollinger, Entrepreneurship – Strategies and Resources, Pearson Education
13	Venkateshwara Rao and Udai Pareek,(Eds)Developing Entrepreneurship-A Handbook
14	Ravi J. Mathai, Rural Entrepreneurship A Framework in Development Entrepreneurship –Ahandbook

Semester IV

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

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

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

Contents	42 Hrs
Unit–1: Economic analysis of law	14 Hrs
Chapter 1: Introduction to legal reasoning <ul style="list-style-type: none"> • Efficiency. • Markets and efficiency. • Market failure. • Coase theorem and related ideas, 	5
Chapter 2: welfare economics <ul style="list-style-type: none"> • Compensation principles. • Social welfare function. • Maximization problem; 	4

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"> 1. Group Discussions on Economic reasoning 2. Assignment on Coase theorem and related issues 	
Unit -2: An Introduction to Law and Legal Institutions	12 Hrs
Chapter 4: Law <ul style="list-style-type: none"> • Definition • Territorial Nature of Law • Kinds of Law • General Law and Special Law • Kinds of Special Law 	4
Chapter 5: Civil law and the and the Common Law Traditions <ul style="list-style-type: none"> • The institutions of the federal and State Court systems; • The nature of legal dispute, • How legal rules evolve. 	4
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	16 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 	5

<ul style="list-style-type: none"> • Consumer protection; The Consumer Protection Act, 2019 • Consumer courts. 	
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, 	5
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 	6
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

Note: Strictly follow the Practicum

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

Semester IV

Course Title Economics of GST

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

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

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

Contents	42 Hrs
Unit–1: Introduction to Economics of GST	14 Hrs
Chapter 1: Indirect taxes before GST <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; 	5
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 	4
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 	5

<ul style="list-style-type: none"> Multiple rates of GST Recent reforms in GST 	
Practicum: 1. Group Discussions on Indirect Taxes defects prior to GST 2. Assignment on Types of Indirect Taxes prior to GST and After introduction of GST	
Unit – 2 Fundamentals of GST	12 Hrs
Chapter 4: GST Structure in India, <ul style="list-style-type: none"> GST: Advantages and Disadvantages One Nation-One Tax, Structure of GST; Features of Single and Dual GST Model 	4
Chapter 5: Dual GST Mode and GST Council <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, 	4
Practicum: 1. Group Discussions on advantages and disadvantages of GST 2. Hold the moot of GST Council in the class room and decide the different slabs of GST	4
Unit -3: Taxes and Duties	16 Hrs
Chapter 6: Transactions and taxes covered and not covered <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; <p>Exemption from GST: Small supplies and Composition Scheme Classification of Goods and Services: Composite and Mixed Supplies.</p>	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

Note: Strictly follow the Practicum

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

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

(As per NEP 2020)

B SC Honors Economics Syllabus – 2022-23 onwards

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

Semester III

Course Title *Factor pricing and Welfare Economics*

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

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

- CO1. Understand the meaning of factor incomes and factor pricing.
- CO2. Recognize basic supply and demand analysis of factors in perfect and imperfect market situations.
- CO3. Understand the meaning of social welfare and 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	42 Hrs
Unit–1: Factor Pricing	18 Hrs
Chapter:1 Meaning and Significance of factor pricing - Functional (factor) and personal incomes - Demand and Supply of Factors of Production in Perfect and Imperfect Competitive Markets.	3
Chapter:2 Factor pricing in perfectly competitive markets - Marginal productivity theory of factor pricing	2
Chapter:3: Factor pricing in imperfectly competitive markets - Monopsony power: Trade Unions and wage determination - Bilateral monopoly	3
Chapter:4: Theories of wages, rent, interest, and profits (Brief conceptual discussion): Rent: Ricardian Theory, Modern Theory, and Quasi Rent. Wages: Subsistence Theory, Wage-Fund Theory, Residual Claimant Theory, Marginal Productivity Theory and Modern Theory. Interest: Classical Theory - Keynesian Liquidity Preference Theory	10

Profit: Dynamic Theory, Innovation Theory, Risk-bearing Theory and Uncertainty bearing Theory	
Practicum <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	6 Hrs
Chapter 5 Circular flow - Partial and general equilibrium - General equilibrium in production and exchange (Edgeworth box and Pareto optimality in consumption and production) - Walrasian general equilibrium analysis	6
Practicum: Reading and describing the graphs used	
Unit -3: Welfare Economics	18 Hrs
Chapter 6: Individual welfare and social welfare – Pigou’s Welfare Economics - Social welfare function – Kaldor-Hicks Compensation criteria - Arrow’s impossibility theorem - Theory of second best.	7
Chapter 7: Market failure – Meaning of Market Efficiency – Reasons for Market Failure - Externalities, public goods, property rights and Coase Theorem	4
Chapter 8: Asymmetric information - Meaning - adverse selection, moral hazards, agency problems	3
Chapter 9: Government Intervention – Need for Public Policy - Price ceiling, floor - Taxes, subsidies, Tariffs and quotas - production, import and export quotas – Economics Justification for Welfare Schemes	4
Practicum: <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.
3	Jhingan, M.L. (2016): <i>Microeconomics</i> , Vrinda Publications, New Delhi
4	Koutsoyianis, A (1979): <i>Modern Microeconomics</i> , London, Macmillan
5	Omkarnath, G. (2012: <i>Economics: A Primer for India</i> , Orient Blackswan, Hyderabad
6	Salvatore, Dominick (2008) <i>Microeconomics Theory and Applications</i> , Oxford University Press, New York
7	Samuelson, Paul (2004): <i>Economics</i> , McGraw-Hill, New Delhi
8	https://www.core-econ.org/the-economy/book/text/0-3-contents.html

Semester III

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

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

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

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

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

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

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

Pedagogy: Classroom lecture, tutorials, Problem solving exercise

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

Semester III

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

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

Chapter:3 - Poverty and Unemployment in Rural India Meaning and Measurement of Poverty Causes of Poverty Farm and Non-farm employment Measurement and Types employment Review of Poverty Alleviation and Employment Generation Programmes in India.	5
Practicum: <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:	14 Hrs
Chapter 4- Rural Enterprises Meaning and Importance, Classification of MSME Progress and Problems of MSME Khadi and Village Industries	5
Chapter-5: Rural Banking and Finance Credit Co-operative Societies Regional Rural Banks Role of NABARD Microfinance Institutions	4
Chapter-6: Rural Infrastructure Educational and Health Infrastructure Housing and Sanitation Drinking Water Supply Rural Transport and Communication Rural Electrification	5
Practicum: <ul style="list-style-type: none"> • Write an assignment on Rural infrastructure • Write a small report on Rural Industry 	

Unit -3:	14 Hrs
Chapter 7- Rural Development Programmes Wage Employment Programmes Self-employment and Entrepreneurship Development Programmes Rural Housing Programmes Rural Sanitation Programmes	4
Chapter 8 - Rural Markets Meaning and Types of Rural Markets Defects and Government Measures for Removal of Defects in rural markets Co-operative Marketing Societies Meaning and Importance of Regulated Markets Digital Marketing(e-NAM)	5
Chapter 9 - Rural Governance Legislations powers, Functions, and sources of revenue of Panchayat Raj Institutions Role of NGOs in rural development People's participation in rural development	5
Practicum: <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

Note: Strictly follow the Practicum

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

Semester III

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

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

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

CO2. Acquaint with the conceptual framework of Insurance

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

CO4. Gain Knowledge relating to Insurance Documentation and Insurance legislation

Contents	42 Hrs
Unit-1: Introduction to Economics of Insurance	14
Chapter:1 - Fundamentals of Economics of Insurance <ul style="list-style-type: none"> ➤ Definition of Insurance ➤ Scope of economic insurance ➤ Importance of insurance 	4
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 	5
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 	5
Unit -2: Insurance Planning	14

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 	4
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 	5
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 	5
Unit -3: personal insurance / Health Insurance	14 Hrs.
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 	3
Chapter 8 - Insurance Documentation <ul style="list-style-type: none"> ➤ Health Insurance products, Health Insurance underwriting ➤ Health Insurance claims 	3
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 	8

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

Semester III

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

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

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

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

Contents	42 Hrs
Unit-1: Introduction to Human Development	12 Hrs
<p>Chapter 1: Human Growth and Human Development - Basic Needs Approach - Quality of Life Approach - Capability Approach</p> <p>Chapter 2: Human Resource Development (HRD), Human Resource Management (HRM).</p> <p>Chapter 3: Human Development: meaning and definition, importance, and objectives.</p>	
Unit -2: Human Security, SDGs and Approaches to Human Development.	12Hrs
<p>Chapter 4: Human Security: Economic security - Food security - Health security - Environmental security - Personal security - Community security - Political security.</p> <p>Chapter 5: Sustainable Development Goals (SDGs): Understanding the SDGs - Linkages between human development and the SDGs.</p> <p>Chapter 6: Indian Perspectives and Experience with Human Development: Approach to human development in national plans</p>	
Unit -3: Dimensions and Measurement of Human Development	18 Hrs
<p>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.</p>	

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. Mangain, 2001, Social and Economic Security in India, Institute for Human Development, New Delhi
3	Government of India, National Human Development Report 2002, Planning Commission, New Delhi
4	Jaya Gopal, R: Human Resource Development: Conceptual analysis and Strategies, Sterling Publishing Pvt. Ltd., New Delhi
5	Naresh Gupta (2019), Human Development in India Emerald Publishers.
6	Nadler, Leonard (2004). Corporate Human Resource Development, Van Nostrand Reinhold, ASTD, New York
7	Padmanabhan Nair(2007) Human Development Index: An Introduction (Economy Series), ICFAI UNIVERSITY PRESS
8	Papalia, D.E. , Olds, S.W. and Feldman, R.D. (2006). Human development.9th Ed. New Delhi: Tata McGraw- Hill.
9	Rao, T.V and Pareek, Udai (2005) Designing and Managing Human Resource Systems, Oxford IBH Pub. Pvt.Ltd., New Delhi.
10	Rao, T.V: Readings in HRD, Oxford IBH Pub. Pvt. Ltd., New Delhi,
11	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

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

Semester IV

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

Course Outcomes (COs): After the successful completion of the course, the student will be able to: CO1. Understand the operation of the overall monetary economy and money CO2. What constitutes supply and demand for money as well as theories and approaches. CO3. Monetary policy and inflation and its impact on welfare	
Contents	42 Hrs
Unit-1: Introduction to money and monetary economics	15 Hrs
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 	5
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

Unit -2: Theories and approaches of demand for and supply of money	15 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 	8
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 	7
Unit -3: Inflation and Monetary Policy	12 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 	5
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. 	7

Pedagogy: Classroom lecture, tutorials, Problem solving exercise

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

Semester IV

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

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

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

Pedagogy: Classroom lecture, tutorials, Problem solving exercise

References	
1	Gujarati, D. N., Porter D.C., Gunasekar S., “Basic Econometrics”, Mc Graw Hill, 5th Ed, 2012
2	Marno Verbeek, 2017, “A Guide to Modern Econometrics”, John Wiley & Sons, Ltd, 5 th Edition.
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5	Koutsoyiannis, A, Theory of Econometrics
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9	Pindyck, R.S. and Rubinfeld, D.L., “Econometric Models and EconomicForecasts” 4th Ed
10	Jeffrey M. Wooldridge Econometric Analysis of Cross Section and PanelData, MIT Press
11	Wooldridge, J. M., “Introductory Econometrics: An Introductory Approach”,SouthWestern, Cengage Learning, 5th Edition, 2013

Semester IV

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

Course Outcomes (COs): After the successful completion of the course, the student will be able to: CO1. Understand the nature of economic growth and problems of Karnataka state. CO2. Explain the process of structural growth in Karnataka Economy CO3. Evaluate the policies and programmes undertaken by the Govt. of Karnataka for bringing about socio-economic development	
Contents	42 Hrs
Unit-1: Karnataka Economy – An overview	12 Hrs
Chapter:1 Characteristics of Karnataka Economy <ul style="list-style-type: none"> ○ Features of Karnataka Economy ○ Trends and sectoral distribution of State Domestic Product and Per Capita Income ○ Measures to redress regional imbalances – Dr. Nanjundappa Committee Report, Article 371J 	5
Chapter-2: Human Resources <ul style="list-style-type: none"> ○ Human Resources: importance, Size and Health indicators ○ Human Development Index ○ Poverty and Unemployment– Eradication Programmes 	4
Chapter-3: Natural Resources Management <ul style="list-style-type: none"> ○ Natural Resources: Importance and volume of different natural resources ○ Karnataka Environmental Policy Practicum: conduct field visit to Forest/Reservoir/Mining and prepare the report	3
Unit -2: Agriculture, Rural development, and Industries in Karnataka	18 Hrs
Chapter-4: Agriculture <ul style="list-style-type: none"> ○ Problems in Agriculture ○ Land Reforms 	7

<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 	4
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 <p>Practicum: visit to industrial units in local area and prepare the report/Trace-out the impact of Prof. D. M. Nanjundappa Committee report</p>	7
Unit -3: Infrastructure and Finance in Karnataka	12 Hrs
Chapter-7: Economic Infrastructure <ul style="list-style-type: none"> ○ Transportation: Road, Rail, Water and Air Transport ○ Information and Communication Technology Facilities 	3
Chapter-8: Social Infrastructure <ul style="list-style-type: none"> ○ Drinking Water ○ Housing and Sanitation ○ Health and Education ○ Rural Electrification 	4
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) <p>Practicum: Discussion on State budget</p>	5

Pedagogy: Classroom lecture, tutorials, Problem solving exercise

Note: Strictly follow the Practicum

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

Semester IV

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

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

Unit -3: Business and Entrepreneurial development	12 Hrs
<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

Semester IV

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

Course Outcomes (COs): After the successful completion of the course, the student will be able to: CO1. Comprehend the basic economic issues affecting the economy along with the related legal provisions CO2. Acquire knowledge on the basic provisions of law relating to consumer activities, business organizations, environment CO3. To appreciate the understanding the law framework in order to frame the economics model closer to reality. CO4. To enable the students to understand the consequences of legal rules, primarily as an exercise in applied microeconomics, macroeconomics, industrial and international economics.	
Contents	42 Hrs
Unit–1: Economic analysis of law	14 Hrs
Chapter 1: Introduction to legal reasoning <ul style="list-style-type: none"> • Efficiency. • Markets and efficiency. • Market failure. • Coase theorem and related ideas, 	5
Chapter 2: welfare economics <ul style="list-style-type: none"> • Compensation principles. • Social welfare function. • Maximization problem; 	4
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"> 1. Group Discussions on Economic reasoning 2. Assignment on Coase theorem and related issues 	
Unit -2: An Introduction to Law and Legal Institutions	12 Hrs

Chapter 4: Law <ul style="list-style-type: none"> • Definition • Territorial Nature of Law • Kinds of Law • General Law and Special Law • Kinds of Special Law 	4
Chapter 5: Civil law and the and the Common Law Traditions <ul style="list-style-type: none"> • The institutions of the federal and State Court systems. • The nature of legal dispute, • How legal rules evolve. 	4
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	16 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. 	5
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, 	5
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 	6
Practicum <ol style="list-style-type: none"> 1. Hold the moot court in the classroom and let there be a discussion consisting of at least two or more different views on National and Global environment problems and acts 2. Discuss the case studies on the Economic and social costs of poverty and consumer court judgements protecting the consumers 	

Pedagogy: Classroom lecture, tutorials, Problem solving exercise

Note: *Strictly follow the Practicum*

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

Semester IV

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

Course Outcomes (COs): After the successful completion of the course, the student will be able to: CO1. Acquire knowledge on indirect taxes with special reference to GST CO2. Acquire the theoretical and application knowledge of GST and its Evolution in India CO3. To enable the students to understand the GST Law, ITC, Valuation of supply and returns CO4. Simple calculation of GST and Input Tax Credit, Valuation of Supply (Numerical on valuation and calculation of tax)	
Contents	42 Hrs
Unit-1: Introduction to Economics of GST	14 Hrs
Chapter 1: Indirect taxes before GST <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; 	5
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 	4
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 	5

<ul style="list-style-type: none"> Multiple rates of GST Recent reforms in GST 	
Practicum: 1. Group Discussions on Indirect Taxes defects prior to GST 2. Assignment on Types of Indirect Taxes prior to GST and After introduction of GST	
Unit – 2 Fundamentals of GST	12 Hrs
Chapter 4: GST Structure in India, <ul style="list-style-type: none"> GST: Advantages and Disadvantages One Nation-One Tax, Structure of GST; Features of Single and Dual GST Model 	4
Chapter 5: Dual GST Mode and GST Council <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, 	4
Practicum: 1. Group Discussions on advantages and disadvantages of GST 2. Hold the moot of GST Council in the class room and decide the different slabs of GST	4
Unit -3: Taxes and Duties	16 Hrs
Chapter 6: Transactions and taxes covered and not covered <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; <p>Exemption from GST: Small supplies and Composition Scheme Classification of Goods and Services: Composite and Mixed Supplies.</p>	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

Note: Strictly follow the Practicum

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