### St. Joseph's College of Commerce

(Autonomous) 163, Brigade Road, Bengaluru – 560 025

Accredited with 'A++' Grade (4th Cycle) by the National Assessment and Accreditation Council (NAAC)

Recognized by the UGC as "COLLEGE WITH POTENTIAL FOR EXCELLENCE"



### **B.Sc. Economics**

Semester V and VI Syllabus as per National Education Policy Curriculum Framework

Academic year 2024-25

#### St. Joseph's College of Commerce (Autonomous) Affiliated to Bengaluru City University

St. Joseph's College of Commerce (SJCC) was formerly a part of St. Joseph's College, established in the year 1882. The Commerce Department was established in the year 1949 and it became an independent college with its own building in Brigade Road in the year 1972.

The college has in its Vision a model for higher education which encourages individuals to dream of a socially just world and in its Mission a strategy to empower individuals in realizing that dream.

With an objective of imparting quality education in multidisciplinary fields of Commerce, Management, Economics, English and Psychology the college has been innovating in all aspects of higher education over a long period of time. These innovations were further bolstered with the granting of autonomous status to the college by UGC in September 2005. From then on, the college has taken a lead in reforming curriculum and syllabus, examination and evaluation pattern and teaching and learning methods through the Board of Studies, the Academic Council and the Governing Council comprising of eminent academicians, industry representatives and notable alumni.

The college has undergone four cycles of NAAC accreditation starting from the year 2000 in which it secured 'five stars', next in the year 2007 an 'A' grade, in the year 2012 again an 'A' grade and recently in February 2021 an 'A++'. It is one of the very few institutions in the country to have secured A++ grade in the fourth cycle under the Revised Accreditation Framework (RAF) and the first college in Karnataka to do so. The college was declared as a 'College with Potential for Excellence' in the year 2010. In 2011 SJCC was recognized as a Research Centre by Bangalore University. The college has been ranked 65th in the National Institutional Ranking Framework (NIRF) ratings of Ministry of Education, Government of India, in 2023 and it has been the only institution from Karnataka to make it consistently to the top 100 in the country.

The college offers diverse programmes in Commerce, Business Administration, Economics and English. Under Commerce Studies it offers

B. Com, B. Com (Professional- International Accounting and Finance), B.Com (BPS- Industry Integrated), B.Com (Travel and Tourism), B.Com (Analytics), B.Com (Professional - Strategic Finance), M.Com (Finance & Taxation/ Marketing & Analytics), M.Com (International Business) & M.Com (Financial Analysis). Under Business Administration it offers BBA, BBA (Entrepreneurship) and BBA (Professional- Finance and Accountancy). The college also offers six one-year Post Graduate Diploma programmes. The College offers a B.Sc Economics Programme and a B.A English and Psychology Programme.

#### THE DEPARTMENT OF ECONOMICS

The Department of Economics offers B.Sc Economics. This Department has started to incorporate the multidisciplinary spirit of the new NEP 2020. The B.Sc Economics programme has been designed to provide a cutting edge expertise in mainstream economics with minor (psychology). The programme aims to develop analytical, creative and critical thinking skills for problem solving and decision making. It aims at better understanding of social, economic, psychological and political issues and also explores the full spectrum of finance. The transferable skills attained through the B.Sc (Economics) are highly sought after by employers and increase the employability quotient of students in various dynamic fields. A student could be an economist, a government advisor, financial consultant, econometrician, banker and also look forward to different government positions after successful completion of the programme. Keeping in view the new NEP, the programme ismultidisciplinary in nature and integrates different fields like Psychology, Finance, Mathematics, Statistics, Data Analytics, Operations Research, History, Politics, Environmental Studies, Model Building with an inbuilt local as well as global perspective.

New elements such as internship, case studies, seminars and research projects enhance deeper understanding of the practical applications of the programme. So, join in to embark on a whole new adventure with us. The bachelor's degree programme in Economics is a full-time undergraduate programme that aims at providing a programme structure which would retain the 'traditionals' in the programme and equip the students with business acumen necessary to succeed in the professional world. On completion of B.Sc. (Economics) at SJCC, students will acquire comprehensive knowledge of how the economic principles are applied in the society, family, government and private sector, business, and science.

# SALIENT FEATURES OF B.Sc. ECONOMICS PROGRAMME WITH MULTIPLE ENTRY AND EXIT OPTIONS:

- 1. The regulations governing B.Sc. Economics Programme with Multiple Entry and Exit Options shall be applicable with effect from the Academic year 2022-2023.
- 2. The B.Sc. (Economics) Programme shall be structured in a semester mode with multiple exit options.

Certificate	On the completion of <b>First</b>
	<b>year</b> (two semesters)
Diploma	On the completion of
	Second year
	(four semesters)
Basic bachelor's degree	On the completion of <b>Third</b>
	<b>year</b> (six semesters)

- 3. The students who exit with Certification, Diploma and Basic bachelor's degree shall be eligible to re-enter the programme at the exit level to complete the programme or to complete the next level.
- 4. The B.Sc (Economics) Programme offers a wide range of multidisciplinary courses with exposure to other disciplines, specializations and areas. The programme aptly caters to knowledge, ability, vocational, professional and skill enhancement along with focus on humanities, arts, commerce, management, social, physical and life sciences, mathematics, sportsetc.
- 5. The B.Sc (Economics) Programme combines conceptual understanding with practical engagement through lab courses, national and international field visits, internship, conferences, workshops, seminars, case study analysis, group discussions and research projects.

- 6. A wide range of Skill Enhancement Courses are offered in the first four semesters to enhance language and communication, logical reasoning, critical thinking, problem solving, data analytics and lifeskills.
- 7. In each of the first four semester students will have an option of studying a course from other disciplines. Students will be given an option to choose from a pool of Open Elective Courses that provide exposure to multiple disciplines and thereby make the programme truly multi-disciplinary.
- 8. The students have one *specialization/ elective* in the fifth and sixth semester.

### I. ELIGIBILITY FOR ADMISSION

Candidates who have completed the Two-year Pre-university course of Karnataka State or its equivalent are eligible for admission into this Programme.

#### II. DURATION OF THE PROGRAMME

The duration of the undergraduate programme is *three- years* (six semesters) with multiple entry and exit options, within this period. The students can exit after the completion of *one* academic year (Two semesters) with the *Certificate* in a discipline; *Diploma* after the study of *two* academic years (Four Semesters) and *Basic bachelor's degree* after the completion of *three* academic years (Six Semesters).

#### III. MEDIUM OF INSTRUCTION

The medium of instruction shall be English.

#### IV. ATTENDANCE:

- a. A student shall be considered to have satisfied the requirement of attendance for the semester, if he/she has attended not less than 75% in aggregate of the number of working periods in each of the courses compulsorily.
- b. A student who fails to complete the course in the manner stated above shall not be permitted to take the end semester examination.

### V. SUBJECTS OF STUDY: THE COMPONENTS OF CURRICULUM FOR MULTIDISCIPLINARY UNDERGRADUATE BSC.ECONOMICS PROGRAMME

The category of courses and their descriptions are given in the following table.

Category of courses	Objective/ Outcomes
Languages	Language courses equip students with communication skills, critical and
	creative thinking, familiarity with issues pertaining to society and culture
	and skills of expression and articulation. They also provide students with
	a foundation for learning other courses.
Ability	Ability enhancement courses are the generic skill courses that enable
Enhancement	students to develop a deeper sense of commitment to oneself and to the
Courses	society and nation largely.
Skill Enhancement Courses	Skill Enhancement Courses enhance skills pertaining to a particular field of study to increase their employability/ Self- employment. These courses may be chosen from a pool of courses designed to provide value-based and/or skill-based knowledge.
Vocational Enhancement courses	Vocational Enhancement courses enhance skills pertaining to a particular field of study to increase their employability/ Self-employment.
Foundation/ Discipline based Introductory Courses	These courses will supplement in a better understanding of how to apply the knowledge gained in classrooms to societal issues.
Major Discipline Core Courses	Major Discipline Core Courses aim to cover the basics that a student is expected to imbibe in that particular discipline. They provide fundamental knowledge and expertise to produce competent, creative graduates with a strong scientific, technical and academic acumen.
Major Discipline Elective Courses	These courses provide more depth within the discipline itself or within a component of the discipline and provide advanced knowledge and expertise in an area of the discipline.
Open or Generic Elective Courses	Open or Generic Elective Courses are courses chosen from an unrelated discipline/ subject, with an intention to seek exposure beyond discipline/s of choice.
Project work/ Dissertation/ Internship/ Entrepreneurship	Students shall carry out project work on his/her own with an advisory support by a faculty member to produce a dissertation/ project report. Internship/ Entrepreneurship shall be an integral part of the Curriculum.
Extension Activities	As part of the objective of Social Concern, the College has designed a well-structured Community Outreach programme of sixty hours called 'Bembala' (Support). The programme includes rural camps, workshops, lectures and seminars, teaching programmes in Government Schools or Colleges, community service in slums and villages, awareness programmes in streets, localities, slums or villages and public rallies on social issues. The College expects the students to be part of the activities

	organized by the College towards securing the goal of Social Concern. This programme is mandatory for the award of degree from the college.
Extra/Co-Curricular Activities	The College has a wide range of student associations and clubs that provide space for students to develop their creative talents. The activities conducted help in developing not just the artistic and entrepreneurial talents but also helps in character building, spiritual growth, physical growth, etc. They facilitate development of various domains of mind and personality such as intellectual, emotional, social, moral and aesthetic developments. Creativity, enthusiasm, and positive thinking are some of the facets of personality development and the outcomes of these activities.

#### VI. CREDIT REQUIREMENT

Credits represent the weightage of a course and are a function of teaching, learning and evaluation strategies such as the number of contact hours, the course content, teaching methodology, learning expectations, maximum marks etc.

#### VII. TEACHING AND EVALUATION

M.A/M.Sc graduates with Economics and Psychology as basic degree from a recognized university are only eligible to teach and to evaluate the courses including part – B courses of I and II semesters (except languages, compulsory additional courses and core Information Technology related courses) mentioned in this regulation. Languages and additional courses shall be taught by the graduates as recognized by the respective board of studies.

#### VIII. EXAMINATION & EVALUATION:

#### CONTINUOUS FORMATIVE EVALUATION/INTERNALASSESSMENT:

Total marks for each course shall be based on continuous assessment and semester end examinations. As per the decision taken at the Karnataka State Higher Education Council, the total marks for CIA and ESE as per NEP for will be 40:60.

TOTAL MARKS FOR EACH COURSE	100%
Continuous Internal	20%
Assessment –CIA 1	marks
Continuous Internal	20%
Assessment –CIA 2	marks
End Semester Examination -	60%
(ESE)	marks

#### EVALUATION PROCESS OF INTERNAL ASSESSMENT MARKS SHALL BE ASFOLLOWS.

- a. The first component (CIA 1) of assessment is for 20% marks. The second component (CIA 2) of assessment is for 20% marks.
- b. During the end of the semester, end semester examination shall be conducted by the

college for each course. This forms the third and final component of assessment (C3) and the maximum marks for the final component will be 60%.

- c. The students shall be informed about the modalities well in advance. The evaluated assignments during component I (CIA 1) and component II (CIA 2) are immediately provided to the students.
- d. The marks of the total internal assessment shall be published on the ERP for students at the end of semester.
- e. The internal assessment marks shall be submitted to the COE as per the date mentioned.
- f. There shall be no minimum marks in respect of the internal assessment marks.
- g. Internal assessment marks may be recorded separately. A student who has failed, shall retain the internal assessment marks as there will be no change in the CIA results scored.

#### MINIMUM FOR A PASS

- a. A student needs to get 40% in the end semester examination and in addition the student also should get an aggregate of overall 40% inclusive of his internal assessment to be declared as passed.
- b. The student who is passed in all the end semester examinations in the first attempt is eligible for rank
- c. A student who passes the semester examinations in parts or attempted supplementary exams is eligible for only Class, CGPA but not for ranking.
- d. The results of students who have passed the last semester examinations but not passed the lower semester examinations shall be eligible for the degree only after completion of all the lower semester examinations.
- e. If a student fails in a subject, either in theory or practical's he/she shall appear for that subject only at any subsequent regular examination, as prescribed for completing the programme. He/shemust obtain the minimum marks for a pass in that subject (theory and practical's separately) as stated above.

### CARRY OVER

Students who fail in lower semester examinations may go to the higher semesters and take the lower semester examinations as per odd or even semester in the next consecutive chance.

#### CLASSIFICATION OF SUCCESSFUL CANDIDATES:

The ten-point grading system is adopted. The declaration of result is based on the Semester Grade Point Average (SGPA) earned towards the end of each semester or the Cumulative Grade Point Average (CGPA) earned towards the completion of all the eight semesters of the programmes and the corresponding overall grades. If some students exit at the completion of the first, second or third year of the four years Undergraduate Programmes, with Certificate, Diploma or the Basic Degree, respectively, then the results of successful candidates at the end of second, fourth or sixth semesters shall also be classified on the basis of the cumulative GradePoint Average (CGPA) obtained in the two, four, six, respectively. For award of,

• Certificate

- Diploma
- Basic bachelor's degree

#### TRANSFER FOR ADMISSION:

Transfer for admission is permissible only for odd semesters for students of other universities and within the university.

# CONDITIONS FOR TRANSFER OF ADMISSION OF STUDENTS WITHIN THE UNIVERSITY.

- a) His/ her transfer admission shall be within the intake permitted to the college.
- b) Availability of same combination of subjects studied in the previous college.
- c) He/she shall fulfill the attendance requirements as per theUniversity Regulation.
- d) He/she shall complete the programme as per the regulation governing the maximum duration of completing the programme.

#### CONDITIONS FOR TRANSFER ADMISSION OF STUDENTS OF OTHER UNIVERSITIES.

- a) A Student migrating from any other University may be permitted to join odd semester of the degree programme provided he/she has passed all the subjects of previous semesters/years as the case may be. Such candidates must satisfy all other conditions of eligibility stipulated in the regulations of the University.
- b) His/her transfer admission shall be within the intake permitted to the college.
- c) He/she shall fulfill the attendance requirements as per the University Regulation.
- d) The student who is migrating from other Universities is eligible for overall SGPA/CGPA or Class and not for ranking.
- e) He/she shall complete the programme as per the regulation governing the maximum duration of completing the programme asper this regulation.

#### **Program Objectives**

- 1. To provide a sound foundation in factual knowledge in various concepts, theories and models of mainstream economics, and its diverse subfields of macro, micro, developmental economics, public finance, monetary economics, etc. to rigor to the subject and learn to apply them in analysing economic phenomena.
- 2. To develop strong quantitative skills in students by introducing them to mathematical economics, statistics and econometrics in order to analyse complex economic issues.
- 3. To enhance 'learning to learn' skills in students through guided self- learning in order to develop their critical and creative thinking skills and
- 4. be able to generate new ideas and processes.
- 5. To enable students to integrate technology into the study of complex economic phenomenon for analysis of available data, learning to make inferences and finally, learning to produce findings in

visual form and writing.

6. To be able to critique the dynamic complex interaction of economies with society by studying firms and governments through behavioural experimental methods which will lead them to explore policy formulation.

#### **Programme Outcomes**

- 1. Systematic understanding of economic terminology and concepts. Ability to recall the fundamentals of both micro and macroeconomics theories.
- 2. Explain the relationship between various economic factors and variables.
- 3. Interpret different economic data through tabulation and graphical presentation of data.
- 4. Excellent understanding of how to tackle economic problems while being aware of the application and limitations of different approaches, showing strongjudgement in the usage of these approaches in varied settings.
- 5. Analyse economic data with the aid of mathematical and quantitative techniques.
- 6. Create economic simulation model which represent real life scenario and creatively find solutions to economic issues.
- 7. Determine the boons and bains of economic arguments, economic policies, economic theories and economic reasoning.
- 8. Assessing the impact of economic developments on society and make recommendations for evolving stronger and better economic policies.
- 9. Developing new economic models relevant to a dynamic environment by incorporating latest technologies and software.
- 10. Solve the complex Macro economic problems with an understanding of the societal, legal and cultural impacts of the solution.(Example: Economics Goods & amp; Services Tax (GST)-Fiscal Monetary Policy, Union Budget, Crony Capitalism, Bankruptcy Code, Re-capitalism and so on)
- 11. Carrying out innovative and original research.

### **B.Sc Economics Programme Matrix**

Category /Semesters	I	II	III	IV	V	VI	Not appl	Not applicable	
PART A: LAN	IGUAGES	& COMPUI	SORY COU	RSES	1				
Language 1	Language	Language 1	Language 1	Language 1	-	-	-	-	24
4 Hrs/3 Cr	1 (3 Cr)	(3 Cr)	(3 Cr)	(3 Cr)					
Language 2 4 Hrs/3 Cr	Language 2 (3 Cr)	Language 2 (3 Cr)	Language 2 (3 Cr)	Language 2 (3 Cr)	-	-	-	-	
Compulsory Courses (2Hrs/2Cr)		Environment al Studies (3Cr)		Indian Constitutio n (3Cr)					6
PART B: CO	RE & ELEC	TIVE COU	RSES, SEC-S	SB, VOCATI	IONAL COU	RSES, RES	SEARCH	&	
INTERNSHI Discipling	r Microsco	Macroscon	Factor	Monotary	Economics	Environm			72
Discipline	nomice	omics	Factor Pricing 8-	Economics	economics of growth	environin ontal			12
Courses.	(3 Cr)	(3 Cr)	Molfaro	(3 Cr)	and	Economic			
Economics	(3 CI)	(3 CI)	Fconomics	(3 CI)	Developme	c			
(4Hrs/			(3 Cr)		nt (4 Cr)	(4 cr)			
4Cr  or  3Cr	Mathema	Statistics	Basic	Time Series	Data	(1 ci) Rehaviour			
	ticsfor	for	Econometri	Economics	Analytics	al			
	Economic	Economics	cs (3 Cr)	(3 Cr)	using R	Economic			
	s (3 Cr)	(3 Cr)		(0 01)	Programmi	s			
		( )			ng (4 Cr)	(4 cr)			
					Operation	Contempo			
					Research	rarv			
					(4 cr)	Indian			
					· /	Economy (4 cr)			
					Research	History of			
					Methodolog	Economic			
					y (4cr)	s Thought			
						(4 cr)			
Psychology	PSY - 1	PSY-2	PSY - 3	PSY - 4					24
(Minor)	(4+2)	(4+2)	(4+2)	(4+2)					
Open Elective Courses (3Hrs/3Cr)	Choice of Course (3 Cr)	Choice of Course (3 Cr)	Choice of Course (3 Cr)		-	-	-	-	9
Discipline	-	-	-	-	International	Labour	Elective	Elective	12
Specific					Economics	Economics	3	4 (3 Cr)	
Elective (4					(3 Cr)	(3 Cr)	(3 Cr)		
rs/3Cr)									
Skill	Digital		Artificial	Financial	Internship	Internshi	-	-	10
Enhancem ent	Fluency (2		Intelligenc	Education	( 2 Cr)	p (2 Cr)			
Courses-	Cr)		e (2 Cr)	and					
Skill Based				Investment					
(1Hr./2 Cr)				Awareness					
				(2cr)				<u></u>	
Vocational	F	f	F	F	Stock	Introducti	Choice	Choice	12
					1 rading		UI Course	UI Correct	
Courses (3	1	1			(J) (J)	ryinon	Course	Course	

Hrs/3Cr)						Programm	(3 Cr)	(3 Cr)	
						ing and			
						Machine			
						Learning			
						(3 Cr)			
Research								-	4
Methodolog									
y (4hrs/4 Cr)									
Research	-	-	-	-	-		Research	Researc	10+2*
Project/							Proposal	h	
Internship (6							Formulati	Project	
Cr)/Addition							on	(10+2 cr)	
al Electives							(2 cr)		
(4Hrs/3Cr)									
PART C: SKI	LL ENHAN	ICEMENT C	COURSES- V	ALUE BASE	D				
Foundation	Psycholo	Outreach (1	Yoga (1 cr)-	Outreach (1			-	-	8
Courses (2Cr)	gical	cr)		cr)					
	Well-								
	being								
	(2Cr)								
Extension	-	Extension	Extension	Extension &			-	-	
and Extra-		& Extra-	& Extra-	Extra-					
Curricular		Curricular	Curricular	Curricular					
Activities		Activities	Activities	Activities					
		(1Cr)	(1Cr)	(1Cr)					
Total Crs.	25	26	25	25	24	24	22*	22	193
									*

### Course Matrix for B.Sc. Economics Programme

#### Semester V

SL. No.	Course Code	Title of the Course	Category of Course	Teaching Hour per Week (L+T+P)	ESE	CIA	Total Marks	Credits
1.	S1 22 DC 501	Economics of Growth and Development	DSC-1	4+0+0	60	40	100	4
		Research						
2.	S1 22 DC 502	Methodology	DSC-2	4+0+0	60	40	100	4
3.	S1 22 DC 503	Operation Research	DCS-3	4+0+0	60	40	100	4
4.	S1 22 DC 504	Data Analytics Using R Programming	DSC-4	4+ 0+0	60	40	100	4
5.	S1 22 DE 501	International Economics	DSE-1	3+0+0	60	40	100	3
6.		Stock Trading	SEC-VB	3+0+0	60	40	100	3
7		Internship		2 +0 +0				2
ΤΟΤΑ	L	1	•	L				24

## Course Matrix for B.Sc. Economics Programme

#### Semester VI

SL.	Course Code	Title of the Course	Category of	Teaching	ESE	CIA	Total	Credits
No.			Course	Hour per Week (L+T+P)			Marks	
1.	S1 22 DC 601	Environmental Economics	DSC-1	4+0+0	60	40	100	4
		Behavioural						
2.	S1 22 DC 602	Economics	DSC-2	4+0+0	60	40	100	4
3.	S1 22 DC 603	Contemporary Indian Economy	DCS-3	4+0+0	60	40	100	4
4.	S1 22 DC 604	History of Economic Thought	DSC-4	4+ 0+0	60	40	100	4
5.	S1 22 DE 601	Labour Economics	DSE-1	3+0+0	60	40	100	3
6.	S1 22 SE 601	Introduction to Python Programming and Machine Learning	SEC-VB	3+ 0+ 0	60	40	100	3
7		Internship		2 +0 +0				2
ΤΟΤΑ	<u>AL</u>							24

#### SEMESTER V S1 22 DC 501: ECONOMICS OF GROWTH AND DEVELOPMENT

#### **COURSE LEARNING OUTCOMES:**

On successful completion of the module students will be able to:

- Understand the concepts of Economic Development and Economic Growth, and their distinctions and evaluate different measurement methods for economic development including HDI, Green GDP, GHI, and Gender Empowerment Index.
- Evaluate and recognize economic inequality in the context of development and its implications along with unemployment.
- Understand various models of development, it's relevance for the current economy.
- Analyse the various growth models which will enable conceptual clarity, reinforcing theoretical groundwork, and fosters critical thinking abilities.

#### Module-1: Economic Growth And Development: Overview 6 Hrs

Meaning of Economic Development and Economic Growth - Values in Economic Development, Measurement – HDI, Green GDP, GHI, Gender Empowerment Index –Characteristics of Development – Characteristic Features of Developing countries – Factors facilitating development – Market imperfections

#### Module 2: Development Models 10 Hrs

Classical theory of development – Karl Marx – Rosenstein Rodan theory – Leibenstein critical minimum theory - Rostow – Luiz model of unlimited supply of labor – Schumpeter's theory

#### Module 3: Growth Models 15 Hrs

Harrod Domar model - Solow model - Balanced and Unbalanced strategy (Ragnar and Hershman)

#### Module 4: Poverty And Inequality 10 hours

Economic inequality and development, Vicious circle of poverty - Kuznets curve - Lorenz curve - Sen's capacity building - Case studies of various countries' experiences on poverty - Social Dualism-Gini coefficient

#### Module 5: Resources For Development 10 Hrs

Population and Human Capital Formation – Schultz model of human capital formation – Rural - urban migration - Formal and informal sector – Migration and development – Todaro model – Dual economy – Economic and social dualism

#### **Skill Development:**

- Analyzing and develop their ability to conduct research and analyze various economic development indicators such as HDI, Green GDP, GHI, and Gender Empowerment Index.
- Enhance their critical thinking skills by analyzing and evaluating different development models proposed by classical theorists such as Karl Marx, Rostow, and Schumpeter.
- Improve their mathematical and statistical analysis skills by studying growth models such as the Harrod Domar model and the Solow model.
- Cultivate empathy and deepen their understanding of poverty and inequality by analyzing case studies of various countries' experiences.

• Hone their problem-solving skills and engage in policy analysis by studying the relationship between population dynamics, human capital formation, and economic development.

#### **Reference Books:**

- 1. Meier, G. Economics of Development.
- 2. Todaro, M. P., & amp; Smith, S. C. Economic Development (11th ed.). Pearson.
- 3. Ray, D. Development Economics. Princeton University Press.
- 4. Srivastava, O. P. Economics of Development and Planning.
- 5. Perkins, D. H., Radelet, S., & amp; Lindauer, D. L. Economics of Development.
- 6. Haider, N. S. N. Economics of Development: Towards Inclusive Growth.
- 7. Singh, L., Joseph, K. J., & amp; Johnson, D. K. N. Technology, Innovations & amp; Economic Development: Essays in Honour of Robert E. Evenson. Sage.
- 8. Narula, U. Development Shock: Dynamics of India and Current developments. Atlantic.
- 9. Jhingan, M. L. The Economics & amp; Development of Planning (40th ed.). Vrinda Publication.
- 10. Mishra, S. K., & amp; Puri, V. K. Economics of Development & amp; Planning: Theory & amp; Practice. Himalaya Publication.
- 11. Lal, S., Rao, N., & amp; Satyanarayane, T. Rural Development in the Era of Globalization

#### SEMESTER V S1 22 DC 502: RESEARCH METHODOLOGY

#### **Course Objective:**

- To introduce the basic principles and procedure of research in social science
- To provide knowledge about qualitative and quantitative methods used in social science
- To develop the ability to formulate a clear and focused research question or problem.
- To critically evaluate different research designs and select the most appropriate for a specific research question.
- To master various data collection and analysis methods for quantitative and qualitative research.
- To effectively communicate research findings through written reports and presentations

#### Module 1: Introduction to Social Science Research 10 hrs

Meaning of Research, Objective and relevance of social science research - objectives and value in social science research scientific investigation, approaches to social science, theoretical empirical, applied and action research. Uni disciplinary and multidisciplinary methodologies

#### Module 2: Research Design 15 hrs

Meaning of Research Design, Guiding principles in the choice of research topic, formulation of research topic, formulation of research problem, role of review of literature, identification of research gap, need for the study, dependent and independent variable, formulating hypothesis, types of research design, exploratory, descriptive, diagnostic and experimental and hypothesis testing.

#### Module 3: Sampling 10 hrs

Concept of sampling population, sampling frame, sampling error, sample survey vs Census survey-characteristics of a good sample, probability and non- probability sampling techniques

#### Module 4: Data Collection and Data Preparation 15 hrs

Sources of data-primary and secondary, observation, structured and unstructured interview process, schedules and questionnaires. Editing, coding, Classification and Tabulation of Data, Data cleaning and Data Adjusting.

#### Module 5: Essentials of Research Papers 10 hrs

Layout of a Research Paper- Structure of Abstract and Keywords- Referencing styles and bibliography -Impact Factor of Journals- Ethical issues related to publishing- Plagiarism -Use of tools / techniques for Research: methods to search required information effectively, Reference Management Software like Zotero/Mendeley, Software for paper formatting like MS Office, Software for detection of Plagiarism, SPSS- GenAI for Research

#### **Skill Development**

The students are expected to submit a research paper as part of the completion of the course.

- 1. Identify a research problem in your field of interest and formulate a clear research question.
- 2. Conduct a literature review on your chosen research topic.
- 3. Develop a research design for your research question, including data collection methods and sampling techniques.
- 4. Design a research instrument (questionnaire or interview guide) for your research.
- 5. Analyze a sample dataset using appropriate statistical methods (quantitative) or thematic analysis (qualitative).
- 6. Write a research report summarizing the research process, findings, and conclusions.
- 7. Prepare a presentation to communicate your research findings to a broader audience.

#### References

- 1. Kothari, C. R. Research Methodology: Methods and Techniques. New Age International Publishers.
- 2. Sinha, S. C., & Dhiman, A. K. Research Methodology. New Delhi Publishers.
- 3. Singh, Y. K. Fundamentals of Research Methodology. Sage Publications.
- 4. Kumar, R. Research Methodology: A Step-by-Step Guide for Beginners. APH Publishing.
- 5. Patnaik, U. C. A Text Book of Research Methodology. PHI Learning Private Limited.
- 6. Creswell, J. W. Research Design: Qualitative, Quantitative, and Mixed Methods Approaches. Sage Publications.
- 7. Cooper, D. R., & Schindler, P. S. Business Research Methods. McGraw-Hill Education.
- 8. Yin, R. Case Study Research: Design and Methods. Sage Publications.
- 9. Flick, U. An Introduction to Qualitative Research. Sage Publications.
- 10. Sekaran, U. Research Methods for Business. Wiley.

#### SEMESTER V S1 22 DC 503: OPERATION RESEARCH

#### **Course Objective:**

This course delves into the world of Operations Research (OR)

- To equip the students with a powerful toolkit to tackling complex decision- making problems.
- To master the methodology of formulating and solving linear programming models
- To gain insights into transportation and assignment models which are critical for resource allocation.
- To be introduced to techniques like Simulation, PERT and CPM for multi-stage decisionmaking and analyzing complex systems.

#### Module 1: Introduction to Operations Research 6 hrs

Introduction, History of OR, Definition, Features, Methodology/ Approaches to OR, Types of Operation Research Models, Tools of Operation research, Application of OR Techniques, Limitations.

#### Module 2: Linear Programming 14 hrs

Definition, Terminology and requirements, General Form of LP model, Applications of LP models, Formulation and Graphical presentation of LP models LPP-Simplex Method-Maximization and Minimization models, Description of special cases under LPP

#### Module 3: Transportation And Assignment Models 14 hrs

Formulation of Transportation problem, Basic Feasible solution- Northwest Corner Rule (NWCR), Least Cost and Vogel's Approximation Method, Optimal solution through MODI Method

Formulation of Assignment model, Hungarian Model for solving Assignment problem

#### Module 4: Queuing Theory 6 hrs

Introduction, Features of Queuing Theory, Assumptions, Service systems, Single server queuing models, Multi-server queuing models

#### Module 5: Simulation 10 hrs

Meaning of simulation, Steps in simulation, Advantages and Disadvantages, Monte Carlo Simulation Technique, Business Simulation, Simulation and Inventory Control, Simulation and Financial Decision Making

#### Module 6: Network Analysis: Pert and CPM 10 hrs

Programme Evaluation and Review Technique (PERT): objectives, Assumptions, terminology, errors in network, rules to frame Networks, Creating Networks, Activity times and Critical Path, Slack and Float, Project Variance, merits and demerits, Project Cost Analysis Critical Path Method (CPM): Time estimations in CPM, limitations

#### **Course Outcomes**

- 1. Apply OR principles to real-world scenarios.
- 2. Formulate linear programming models for maximising or minimising objectives.
- 3. Design transportation models for logistic planning and resource allocation.
- 4. Employ optimisation techniques to minimise transportation costs.
- 5. Solve assignment problems for optimal resource allocation with multiple constraints.
- 6. Analyse queuing systems to optimise service levels and resource allocation in different settings such as banking, call centres , etc.
- 7. Apply PERT (Program Evaluation and Review Technique) and CPM (Critical Path Method) for project planning, scheduling, and risk management.
- 8. Construct project networks and calculate critical path and project duration to determine the most time-sensitive activities.

#### Skill Development

- 1. Practice identifying decision variables and constraints in real- world scenarios. Solving LPP using solver on EXCEL.
- 2. Develop the ability to formulate transportation models from given data on supply, demand, and transportation costs. Apply techniques like Vogel's Approximation Method to find feasible solutions.
- 3. Apply assignment models to solve problems in areas like job scheduling or task allocation.
- 4. Develop models to match volunteers with projects based on skills and interests, ensuring optimal project outcomes.
- 5. Design experiments to analyze the behavior of systems under different conditions (arrival rates, service times, resource levels).
- 6. Analyze queuing models to optimize the number of tellers and minimize waiting times for customers in a bank.
- 7. Apply PERT/CPM to schedule construction activities, track progress, and identify potential delays.

#### References

- Sharma, S. D., Ram, K., & Nath, N. Operations Research. Kedarnath Ram, Nath & Co.
- Sharma, J. K. Operations Research: Theory and Applications. Macmillan Publications India Ltd.

- Taha, H. A. Operations Research: An Introduction. Prentice Hall.
- Hillier, F. S., & Lieberman, G. J. Introduction to Operations Research. McGraw-Hill Education.
- Sharma, J. K. Operations Research: Theory and Applications. Macmillan Publishers India.
- Mohan, M. Operations Research: An Introduction. Sultan Chand & Sons.
- Kalavathy, S. Operations Research: Theory, Methods and Application. New Age International Publishers Ltd.
- Gupta, M. N., & Gupta, P. K. Operations Research: Concepts and Cases. Tata McGraw-Hill Education.
- Vohra, N. D. Operations Research: A Practical Approach. Everest Publishing House.

#### SEMESTER V S1 22 DC 504: DATA ANALYTICS USING R PROGRAMMING

#### **Course Objective**

Develop proficiency in conducting exploratory data analysis (EDA) and utilizing data visualization techniques in R to extract insights and patterns from diverse datasets, ultimately aiding in informed decision-making processes in data analytics.

#### **Course Outcomes:**

- Understand the foundational aspects of data analytics.
- Identify basic R data structures relevant to modern data analysis.
- Use several tools for data preprocessing and interpretation.
- Apply statistical inference concepts, formulate hypotheses, and conduct various types of hypothesis tests using R programming.
- Perform regression and classification models using R, including fitting multiple linear regression and logistic regression models.

#### Module 1: Introduction to Data Analytics

Foundational aspects of data analytics - definition and scope of data analytics, importance, and applications of data analytics, data types and data sources, data collection, cleaning and preprocessing techniques, exploratory data analysis (EDA) and data visualization techniques.

#### Module 2: Introduction to R

Introduction to R Programming Language, R Studio Environment, Basic Data Types: Numeric, Character, Logical, Basic Operations: Arithmetic, Logical, Relational, Introduction to Functions and Control Structures (if-else, loops), User defined function, Hands-on Exercises and Assignments

#### Module 3: Data Manipulations Using R

Data Structures: Vectors, Matrices, Lists, Data Frames: Creation, Manipulation, and Sub setting, Data Import and Export: CSV, Excel, Text files, Introduction to R Packages and Libraries, Data Visualization: Bar plot, pie chart, histogram, box-plot, and ggplot library, missing values and outliers a analysis, Hands-on Exercises and Assignments.

#### 15 hrs Module 4: Statistical Testing of Hypothesis Using R

Introduction to Statistical Inference, Hypothesis Formulation and Types of Hypothesis Tests, One-Sample and Two-Sample t-tests and Z-tests in R, Chi-Square Test of Independence, ANOVA (Analysis of Variance)

12 hrs

8hrs

#### 15 hrs

#### Module 5: Regression Analysis in R 10 hrs

Introduction to Regression Analysis, Fitting Simple Linear Regression and Multiple Linear Regression using R, Model Validation and Assumptions Checking using R, Fitting Logistic Regression for Binary Classification using R and testing the accuracy of the model.

#### Skill Component:

- Exploratory Data Analysis (EDA) and utilizing data visualization techniques to extract insights and patterns from data sets using R.
- Classification and Regression Analysis on R.
- Diagrammatic and Graphical representation of data using R.
- Conduct hypothesis tests using R, interpret results, and make informed decisions based on statistical inference.

#### **References:**

- 1. Provost, F., & Fawcett, T. Data Science for Business.
- 2. Wickham, H., & Grolemund, G. R for Data Science.
- 3. Wickham, H. Advanced R.
- 4. Bruce, P., & Bruce, A. Practical Statistics for Data Scientists.
- 5. Cameron, A. C., & Trivedi, P. K. Regression Analysis of Count Data.
- 6. Zuur, A. F., et al. A Beginner's Guide to R. Springer.
- 7. Spector, P. Data Manipulation with R. Springer.

#### SEMESTER V **S1 22 DE 501: INTERNATIONAL ECONOMICS**

#### **Course Objectives**

To provide knowledge of fundamentals in international economic theory To provide an understanding of the working of the internation economic Institution

#### Module -1 Theory of International Trade

Introduction- Difference between Inter-regional and International Trade- Adams Smiths' theory of Absolute Advantage-Ricardian theory of trade- Haberler's Theory- H.O theory of International trade- Leontief paradox- Factor price equalisation theorem

#### Module -2 Terms of Trade

Terms of trade, derivation of international trade-indifference curves-Offer curves and terms of trade, static and dynamic gains from trade.

#### Module -3 Trade Restrictions and Commercial Policies 8 hrs

Free Trade vs Protection, methods of restriction-tariff quotas and non-tariff barriers-partial equilibrium analysis -general equilibrium of a small country - effect of tariff-Dumping- antidumping measures-Exchange Control.

#### **Module 4 Economics of Integration**

Forms of economic operation-trade creation diverting of customs union, regional cooperation. World Bank, IMF and WTO-functions, International negotiations: GATT, Trips and Trims - Doha round

#### Module 5 Balance of Payment and Foreign Exchange Markets 9 hrs

Balance of payment -meaning and components-Disequilibrium in the balance of payments methods of correcting the BOP-foreign exchange rate of supply and demand of foreign exchange purchase power parity theory and DOP theory of foreign exchange rate

### **Course Outcome**

- Understand the nature and scope of international economics, explain the Ricardo's theory of International trade
- Explain the different concepts of terms of trade
- Explain the structure of BOP, disequilibrium in BOP, causes of disequilibrium
- Describe the foreign exchange rate and determine its equilibrium exchange rate
- Explain the objectives of IMF and IBRD

#### 10 hrs

## 8 hrs

10 hrs

#### Skill Development

- 1. List the variables that influence International Business decisions
- 2. Design the role of various international theories and their impact on international trade policy
- 3. Examine the forms of International Trade and its implication
- 4. Evaluate the Role of International Bodies in promoting the trade and Development of a country (s) in the context of Free Trade and Protection Regime

#### References

1. Petropoulou, D., & Vanags, A. International Economics. University of London, Subject Guide.

- 2. Sodersten, B. International Economics. Palgrave Macmillan.
- 3. Carbaugh, R. J. International Economics. South-Western College Publishing.
- 4. Krugman, P. R., & Obstfeld, M. International Economics: Theory and Policy. Pearson.
- 5. Cherunilam. International Economics. McGraw Hill Education.
- 6. Salvatore, D. International Economics. Wiley.

#### UG 21 VEC 021: STOCK TRADING

#### **COURSE OBJECTIVE**

This course enables students with the basic understanding of the stock markets and its functioning along with equipping them with the knowledge of trading and also to choose stocks using fundamental and technical analyses.

#### Module 1: Introduction to Financial System

Overview of Financial System: Institutions, Markets, Instruments & Services - SEBI & RBI - Capital Markets - Primary Market: IPO: Types, Procedure & Participants - Types of Financial Instruments -Credit Rating

**Module 2: Stock Market Participants 6 Hrs** Regulatory Bodies: SEBI & RBI - Depositories - Depository Participants - Brokers - Investors: Institutional & Retail Investors Stock Exchanges – Stock Market Indices

#### Module 3: Stock Trading

Demat Account - Trading Account - Procedure for Trading - Types of Orders - Clearing & Settlement - Factors considered for choosing a Broker

### Module 4: Fundamental Analysis

Introduction - Factors considered for Fundamental Analysis: Economy, Industry & Company -Case-study Analysis using Screener (or any other platform)

### **Module 5: Technical Analysis**

Introduction - Dow Theory - Chart Types - Candle Stick Patterns - Support & Resistance -Technical Indicators: MACD, EMA, ROC, RSI & Stochastic Oscillators - Choosing Stocks using **Technical Tools** 

### Module 6: Derivatives Trading

Introduction - Features of a Financial Derivative - Types of Financial Derivatives -Uses of Derivatives - Critiques of Derivatives - Forward Contract: Features, and Trading Mechanism -Futures Contracts: Features - Classification of Futures Contracts & Forward Trading Mechanism -Forward Prices vs Future Prices - Options - Moneyness of the Options - Intrinsic Value and Time Value - Pay-off for Options - Option Trading Strategies: Bullish strategies/Bearish strategies/Neutral strategy-any two strategies from each category

### **Skill Development**

- Investigate and present various aspects of capital markets, primary markets, IPO types, 1. procedures, and participants.
- 2. Engage in a virtual stock trading simulation, applying knowledge about stock exchanges, stock market indices, and types of financial instruments.

#### **10 Hrs**

12 Hrs

8 Hrs

## 5 Hrs

## 4 Hrs

- 3. Study SEBI, RBI, and their roles; analyze the functions of stock exchanges, depositories, and depository participants.
- 4. Participate in mock trading sessions to simulate real-life trading experiences, practicing different types of orders and their execution.
- 5. Engage in hands-on exercises related to clearing and settlement processes, ensuring understanding of trade finalization.
- 6. Analyze real-world charts applying Dow Theory, understanding various chart types and identifying patterns.
- 7. Practice identifying candlestick patterns like doji, hammer, etc., and learn their implications.
- 8. Work with technical indicators like MACD, EMA, ROC, RSI, and Stochastic Oscillators, applying them to historical data for trend analysis.

### **COURSE OUTCOMES**

### After completion of the course the students will be able to:

- 1. Understand capital markets, IPO procedures, stock exchanges, and financial instruments comprehensively.
- 2. Gain insights into regulatory bodies, stock market functions, depositories, brokers, and investor types.
- 3. Develop proficiency in trading procedures, order types, and clearing and settlement processes.
- 4. Master the fundamental analysis using Screener or any other platform
- 5. Master technical analysis basics, including Dow Theory, chart patterns, candlesticks, and key technical indicators' application
- 6. Master derivative trading and various strategies

### **BOOK FOR REFERENCE**

- Avadhani, Security Analysis & Portfolio Management, 12th Revised Edition, Himalaya Publishing House, 2020
- Bhalla, Security Analysis & Portfolio Management, 11th Revised Edition, S Chand Publication, India, 2020
- Murphy, J. J. (2023). Technical Analysis of the Financial Markets: A Comprehensive Guide to Trading Methods and Applications. New York Institute of Finance.
- Prasanna Chandra, Managing Investments, 6th Edition, McGraw Hill Education, 2021
- Punithavathy Pandian, Security Analysis & Portfolio Management, 5th Edition, Vikas Publishing House, 2013

Semester		Course	Course	Course	Course	Teachin	Credi					
X/I		Code	Title:	Durati	Type:	g Hours	ts:					
VI		51 22 DC 601	ental	on: 60 hrs	DSC	Per week:	4					
		001	Economics	00 1110		4 hrs						
Course	In this course on environmental economics, students will understand											
Objectives	fundamental economic concepts relevant to the field. They will develop the											
:	ability to int	nterpret the economic degradation of ecological resources,										
	identifying b	ooth its causes	and effects. T	hrough cr	itical exami	nation of						
	contemporar	ry environmer	ntal issues, the	ey will exp	olore the ten	sion betwe	en					
	developmen	t and sustaina	ble developm	ent. Using	g a neoclassi	cal econom	11C					
	analysing pr	students will e	ironmontal ch	skills in re	Thoy will co	ing, and	rociato					
	the necessity	of valuing env	vironmental r	esources	and be able	to evaluate	the					
	policy aspec	ts of these issu	es. Furthermo	ore, stude	nts will culti	ivate creati	vitv bv					
	formulating	solutions to co	omplex enviro	nmental p	problems in	the curren	t					
	context.		1	1								
Course	T 2	CO1	Describe ecor	nomic con	cepts used i	n environn	nental					
Outcome			economics.									
	T 4	CO2	Interpret the	economic	degradation	n of						
			environmenta	al resource	es and ident	ity its caus	es and					
	<b>T</b> 4	$CO^2$	effects.	conflict be	twoon dava	lonmontor	ad					
	14	003	sustainable d	evelonme	nt by review	ving currer	nt and					
			contemporar	v environi	nental issue	es.	it und					
	T4	CO4	Analyse pres	ent enviro	nmental iss	ues using t	he					
			neoclassical f	ramework	Κ.							
	T5	CO5	Evaluate poli	cy aspects	s of environ	mental issu	les.					
	T6	CO6	Creatively pr	oviding so	olutions for	complex						
			environmenta	al problen	ns that are ic	lentified in	1 the					
Madrila 1	Introduction	To Freedorg	current conte	xt.		Noof						
Module 1	Introduction	n 10 Environn	nental Econor	nics		NO OI Hours	c•					
						10						
Definition, r	nature and sco	pe- need for a	separate brar	nch of stuc	ly, transdisc	ciplinary.						
Interaction b	oetween envir	onment and e	conomics, circ	ular flow	diagram wi	th the						
environmen	t as a resource	e provider. De	cisions makin	g relating	to the envir	onment-						
philosophica	al perspective	S.				NI C						
Module 2	Economic E	fficiency and	Warkets			N0 0f	c•					
						10	5.					
Characterist	ics of goods-1	rivalry and exc	cludability, na	ture of en	vironmenta	l goods. M	arket					
failure-cause	es- property r	ights -types- tł	ne tragedy of t	the comm	ons; produc	tion and						
consumption	n externality I	Marginal Priva	te Cost (MPC	), Margina	al Social Cos	st (MSC) ar	nd					
Marginal Pr	ivate Benefit (	MPB). MSB. S	Solutions to m	arket failu	ıre- Coase tl	neorem, tay	kes and					
subsidies. G	overnment re	gulation and c	ontrol measu	res-instru	ments (over	view).						
Module 3	Natural Kes	ource Econom	11CS			No of Hours	5:					

		10
Characterist	ics of natural resources. Economics of non-renewable resources- in	tertemporal
dimension, a	discount rate; proven, potential, speculative. Resource exploitation	and
technologica	l progress. Energy - sources, types, substitution crisis. Renewable	resources -
rate of repro	duction, rate of harvest, sustainable yield. Economics of forestry an	nd fisheries
(concepts) b	lue economy.	
Module 4	Degradation Of Environment	No of
		Hours:
		12
Economic pe	erspective on degradation, carrying capacity and assimilative capacity	city. Types,
causes and c	onsequences of environmental degradation- atmospheric, water, n	narine, noise,
Visual, and I	ight. Degradation of land, deforestation, climate change- a global	bad.
Modulo 5	Economic Valuation of Environment	No.of
Wiodule 5	Economic variation of Environment	Hours
		8
Need to valu	ue the environment- total value framework components. Market-ba	ased method)
Modulo 6	Sustainable Development	No of
Module o	Sustamable Development	Hours
		10 10
Developmer	nt versus sustainable development. Human Development Index (H	DI) versus
Global Hung	zer Index (GHI). Links between environment and economic growth	1
environmen	tal Kuznets curve. Population and environmental distribution-pov	erty and
affluence an	d environmental degradation, women, vulnerable groups, tourism	, trade and
migration. E	conomic growth and pollution: Brundtland Commission and conce	ept of
sustainabilit	y	-
Skill Develo	opment:	
1	Select a case study (e.g., deforestation, water pollution) and assess	s the
	economic impacts.	
2	Debates on various environmental policies (e.g., carbon tax vs. car	p-and-trade).
3	Conduct simulations where students represent different stakehold	ders (e.g.,
	businesses, government, NGOs) in an ecosystem and try to addre	ess different
	ecological problems.	
4	Field research on a local environmental issue, collecting data on e	conomic
	impacts, community perspectives, and potential solutions.	
5	Field research on a local environmental issue, collecting data on e	conomic
	impacts, community perspectives, and potential solutions.	
6	Invite economists, policymakers, or environmental activists to spe	eak about
	their work.	1 • • /
7.	Conduct a mock environmental impact assessment for a proposed	a project (e.g.,
	a new factory) and analyze potential economic benefits against er	ivironmental
Pool for Do	Costs and recommend mitigation strategies.	
DOUK IOF Ke		
1	Muthukrishnan Subhashini (2015) Economics of Environment. Pr	entice Hall
	India Ltd. Kalata d Chardag D. (2000) Englisher and al E. (1110) (111	Dec1-1: (
2	Noistad Charles D. (2006) Environmental Economics IEd, Oxford	rublication.
3	Kadekodi G K (Ed) (2004). Environmental Economics in Practice. University Press	Oxford
4	Bhattacharya N, Rabindra (2001) Environmental Economics- An I	ndian
	Perspective. Oxford University Press, Delhi.	

5	Ram Prasad Sengupta (2001) Ecology and Economics, Oxford University Press.
6	Nick Hanley, Jason F. Shogren, Ben White (1997) Environmental Economics: In Theory and Practice, Macmillan.
7	Field Barry .C (1994) Environmental Economics an Introduction. McGraw Hill International Editions.

# Mapping of CO and PO

CO/PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	L	L	М	М	Н						Н	
CO2	L		L		М	Н			Н			М
CO3	L	L		М	М		Н					Η
CO4	L		М	L	Н			Н				Н
CO5	L			М	Н		М		Н			L
CO6	L	М		L		Η		Η				М

				De	partment o	f Economics								
				Prog	gramme: BS	C Economic	S							
Semester		Course Co	de	Coi	rse Title:	Course	Course	Teachi	Cre					
		S1 22 DC 6	02	Beha	vioural	Duration:	Type:	ng	dits:					
VI			-	Econ	omics	60 hrs	DSC	Hours	4					
							200	Per	_					
								week						
								4 hrs						
								1110						
Course	The	Course will	enable	stude	nts to critica	ally examine	the evolut	ion of						
Objectives	Beha	wioral Eco	nomics	and it	s implicatio	ns for neuro	economics	comitiv	ve and					
:	emot	tional hiase	s and r	nonta	l accounting	The second	help the st	, cogiliu tudents	c una					
•	unde	aretand the	annlica	hility	of different	theories in r	ool_lifo sce	narios						
Course	T <sub>2</sub>		Doscr	tibo th	o avalution	of Bohaviou	ral Econor	nice and	tho					
Outcomes	14	COI	basic		e evolution	to behaviour	al oconom		ule					
Outcomes	Т1	$CO^{2}$	Apal	tonice	pis related i	no for pouro		Corniti	vo and					
	1.4		analy	y = u = u = 1	viacoa and l	Montal Accor	unting	, cogniti	ve anu					
	Т1	CO2	Evon	iona th	o implicatio	ne of Bound	ad rational	1:+						
	14	0.05	Certainty/possibility effects, Dunning-Kruger effect, and											
			Dual	muy/j	possibility e	montal accor	ing-Kiuge	he contor	unu vt.of					
			bohar	viouro	1 Economic		unung mu	lie contex	Kt OI					
	TE	CO4	Evaluate the role of Heuristics, emotion, beliefs and											
	15	04	institutions in investment decision-making											
	Т1	CO5	Institutions in investment decision-making.											
	14	COS	Compare and contrast the game theory strategies and their											
	Т2	C06	Disci	use the	Pole of Ni	idge ve Boo	et in chani	ng Const	imor					
	12		Decis	ion-m	aking in the	e Context of	Strategic Ir	ne conse	n					
Module 1	Orio	in Nature	and Sc	one of	Behaviour	al Economic	since in		No of					
module 1		iii, i tutui c	und Se	opeor	Denuvioui		.0	I	Hours:					
								5	5					
	Intro	duction to	Behavi	oural	Economics ·	- Origins of I	Behavioura	l Econor	nics –					
	Hom	no-sapien v	s Home	o sapie	ens-relation	with other d	lisciplines	- Method	ls.					
	Obie	ctive and S	bcope - 4	lc's of	Rationality	- Neuro ecor	nomics – Tl	heory of	,					
	Deci	sion points	- Mone	v Illus	ion-Behavi	oural Science	e in Practic	ce – Princ	tiples.					
	agen	its and Rati	onal Ch	noice					- <b>F</b> 2,					
Module 2	Basi	c Concepts	of Beh	aviou	ral Econom	ics		ſ	No of					
		<b>r</b>						I	Hours:					
								1	10					
	Bour	nded ratior	ality -In	ntrodu	ction to Int	ertemporal (	Choice -	I						
	Certa	ainty/poss	ibilitv e	ffects	– Dunning	Kruger Effec	t- Choice a	architectu	ıre -					
	Choi	ice overloa	d -effect	t of ch	oice comple	exity-Strateg	ies for nav	igating						
	com	plex choice	s- maki	ng cho	oice under r	isk-prospec	t theory an	id loss						
	aver	sion- Self-c	ontrol s	trateg	ies	1 1	J							
Module 3	Heu	ristics and	Biases	0				1	No of					
								1	Hours:					
								1	12					
	Heu	ristics - Sin	nple heu	iristic	s for comple	ex choices - E	Biases heur	istics B	Biases					
	in Be	ehavioural	Econom	nics- C	Cognitive an	d emotional	biases - IK	EA effec	t -					
	Licer	nsing effect	t Judger	nent u	inder risk a	nd uncertain	ty - Role o	f emotion	n,					
	belie	efs and inst	itution i	in deci	ision-makin	g	2							

Module 4	Behavioural Game Theory	No of Hours:
		13
	Behavioural game theory- introduction-nature- equilibrium- dictator of prisoner's dilemma-modelling of social preferences- nature and factor affecting social preferences- reciprocity models- policy implications.	Game 's
Module 5	Strategic Intervention and Nudges	No of Hours: 10
	Libertarian Paternalism- Nudge, Nudge vs. boost - Understanding Co decision-making using behavioural insights- Nudge and happiness, m and behaviour change, ethical considerations, behavioural insights for policy- Cases to give insights into applied areas like Behavioural Mark Health Economics and Behavioural Finance.	nsumer udge public keting,
Module 6	Experimentation in Behavioural Economics	No of Hours: 10
	Basics of experimentation, building blocks of experiments, elements of experiments, types of experimental designs- before design, simple two condition design, fully crossed design, analysis of experimental data, Decision Analysis and Intuition, Models of Intuitive Judgement-current trends and future directions in behavioural economics	f o- nt
	Skill Development:	
1	Extrapolate any three pivotal concepts of Behavioural economics and formulate any four applications of them, keeping the present scenario mind.	in
2	Identify the behavioural patterns that enable individuals to attain out when making decisions. Formulate a road and present it in the form o report.	comes f a
3	Scrutinise the theory of Nudge and identify the concepts discussed in	it
4	Analyse the concept of strategic interactions and evaluate – (i) Mixed strategies (2) Bargaining (iii) Iterated games	
5	Create a custom economic model encompassing the factors affecting superferences	ocial
1	Book for Reference: Bernheim, B. D., DellaVigna, S., & Laibson, D. (Eds.). (2019). Handboo behavioral economics: Foundations and applications 2. Elsevier.	k of
2	Cartwright, E. (2018). <i>Behavioral economics</i> (3rd ed.). Routledge.	
3	Dhami, S. (2016). <i>The foundations of behavioral economic analysis</i> . Oxford University Press.	
4	Angner, E. (2016). <i>A course in behavioral economics</i> (2nd ed.). Palgrave Macmillan.	
5	Wilkinson, N., & Klaes, M. (2012). <i>An introduction to behavioral economic</i> ed.). Palgrave Macmillan.	cs (2nd
6	Kahneman, D. (2011). Thinking, fast and slow. Allen Lane, Penguin Bool	ks.

7	Diamond, P. A., & Vartiainen, H. (Eds.). (2007). <i>Behavioral economics and its applications</i> . Princeton University Press.													
8	Loewenstein, G. (2007). <i>Exotic preferences: Behavioral economics and human motivation</i> . Oxford University Press.													
9	Altman, M. (Ed.). (2006). <i>Handbook of contemporary behavioral economics: Foundations and developments</i> . Prentice Hall India.													
	Mapping of CO and PO													
	CO/P	PO	PO1	PO1	PO1									
	0	1	2	3	4	5	6	7	8	9	0	1	2	
	CO1	L		М	L			M		Н		Н		
	CO2		L	L	М				Н		Н	М		
	CO3	L			L	М	Н	Н				М		
	CO4	L	М	М		L			Н				Н	
	CO5	L	L		Μ	Η		Η				М		
	CO6	L	M			М	H		Η				L	

				Description	( E	•							
			Р	Department Programme: B	SC Econor	nics mics							
Semester	Course	Code		ourse Title:	Course	Course	Teach	in	Credit				
	S1 22 D	C 603	Co	ntemporary	Durati	Type:	g Hou	rs	s:				
VI			Ind	lian	on:		Per		4				
			ECC	onomy	60 nrs		4 hrs	:					
							TIL	,					
Course	The course of	n the Indi	ian c	ontemporary	economy a	aims to prov	vide stu	der	its with				
Objectives	a compreher	a comprehensive understanding of the economic frameworks and concepts											
:	essential for	essential for analyzing India's economic structure. It will enable them to											
	critically examine the country's growth and development trends and evaluate												
	key sectors. Students will develop the analytical skills needed to assess												
	and the post-COVID recovery, ultimately fostering the ability to propose												
	solutions an	solutions and informed policy recommendations for India's future economic											
	growth.												
Course	T2 CO1 Explain the current problems of Indian Economy.												
Outcomes	T4	CO2		Analyse the s	sector-spec	ific policies	adopte	d to	)				
	Т?	CO3		achieve the aspirational goals.									
	T4	CO4		Examine the history of Economic planning in Indi									
	11			Derrierre the error				, Ш та 12					
	12	C05		Keview the se		$\frac{1}{1}$	$\frac{n LPG}{1}$		$\frac{cy.}{1-c}$				
	14	00		Analyse the f	oreign trac mv	de compone	nts and	tre	nds of				
Module 1	LPG Policie	s and Eco	nom	ic Reforms			No	o of	Hours:				
							5						
	Pre-liberalis	ation Era-	LPG-	-Economic ref	forms und	er the New	econom	ic p	olicy –				
	role in India	i, privatisa 's econom	ation nic de	velopment	Sation -INIt	i Aayog – ru	inctions	an	u its				
Module 2	Economic R	eforms in	Agr	iculture and	Food man	agement	No	of H	lours:				
			U			Ũ	10						
	Green Revol	ution- Ag	gricul	tural Finance	- Agricultı	are price pol	licy, mi	nim	um				
	support pric	NREGA-A	emen Agric	it prices, issue	e price, zer TO- Food	o nunger, pi Security and	udiic ai 1 Nutrit	stri	Jution				
	Recent trend	ls in Agric	cultu	re (overview)	)	occurry and	a i vutin	.1011					
Module 3	Industry, in	novation,	, infra	astructure	/		No	o of	Hours:				
		· 1 D 1	1001	1 1 1 1	(		10						
	New Industri	rial Policy	7 1991 ropoi	l- public secto	or reforms,	privatisatio	n and	in					
	industrial development-function of MSME- economic and social infrastructure-												
	roads, railways, airports-Jan Dhan Yojana												
Module 4	Banking and	d Finance	2				No 10	o of	Hours:				
<u> </u>	Banking priv	vatisation,	, role	of SEBI, tax e	expenditur	e- budgetar	y defici	ts-p	ension				
	and fiscal re	forms- Bai	nking	g reforms - Fi	nance Con	nmission an	d its	1					
	role - fiscal f	ederalism	1pu	ıblic debt Mar	nagement-	insurance-N	Modern	tre	nds in				
Madula 5	the field of in	nsurance-	Final	ncial inclusion	n and digit	al inclusion	NT -	<u> </u>	Hourse				
wodule 5	Monetary, Fiscal Policy and Foreign Trade No of Hours:												

	Monetary Policy – objectives, instruments												
	Fiscal Po	olicy-	objecti	ives, i	nstrur	nents							
	Foreign	Trade	- India	a's for	eign t	rade-	volun	ne, dii	rection	n and	compo	sition (	latest
	trends)-	Foreig	gn Dir	ect In	vestm	lent (F	DI)- N	Aeani	ng, tre	ends a	nd pat	terns- l	ndia's
	Balance	of Pay	ment	s since	e 1991	- Free	Trade	e Zone	es		-		
Module 6	Sustaina	able E	<b>)</b> evelo	pmer	nt Goa	ils an	d Ecor	nomic	Deve	elopm	ent	No of 1 10	Hours:
	NITI Aa	yog a	nd goa	als of	SDG,	progr	ams o	f the g	govt- p	oriorit	ies of e	econom	ic
	growth a	and	U			. 0		C	· 1				
	employr	nent,	educa	tion, l	nealth	and g	gender	, ener	gy see	curity,	, pover	ty allev	viation
	and inco	me in	equal	ity (ov	vervie	w of c	liffere	nt pro	gram	s).			
	Populati	ion an	d den	nograj	phic d	ivideı	nd. Hu	ıman	Devel	opme	nt Inde	ex, Hur	nger
	Index, a	nd Gr	oss Ha	appin	ess In	dex.							
	Skill De	evelop	ment	:									
1	Using ca	ise stu	ıdy an	alyse	the U	N sus	stainal	ole de	velop	ment	goals.		
2	Draft a c using se	liagra conda	mmat ry dat	ic rep ta fror	resent n web	tation sites.	of infl	lation	rates	for sp	ecific p	product	S
3	Using a	chart	to sho	w the	impa	ct of N	<b>MNRE</b>	GA w	vorks.				
4	Using se	conda	ary da	ta ana	alyse I	ndia's	direc	tion o	f trad	e in th	ne last 5	5 years.	,
5	Using se	econda	ary da	ta ana	alyse I	ndia's	s trade	volu	me in	the la	st 5 yea	ars.	
	Book for	r Refe	erence	:									
1	Ramesh	Singh	n. 2022	The l	Indian	Econ	omy, '	Tata N	ЛсGra	w Hil	1		
2	Byres Te Liberalis	erence sation	J. (ed. 'in Inc	.), (199 dia, D	98) <i>,</i> Tl elhi	ne Sta	te, De	velop	ment	Planni	ing and	1	
3	Dutt Rue New De	ddar a lhi	and K.	P.M S	Sunda	ram (2	2011):	India	n Ecor	nomy,	S Cha	nd& Co	o. Ltd.
4	Frankel	Franc	ine R.,	(2004	l), Ind	ia's Po	olitical	l Econ	omy,	Delhi	. Jenkir	ns Rob,	2000,
	Econom	ic Ref	orm ir	n India	a, Can	nbridg	ge.						
5	Jalan, B.	(1996	), Indi	a's Ec	onom	ic Pol	icy- P	repari	ng foi	the T	wenty	-First	
	Century	, Vikii	ng, Ne	ew De	lhi.	(1000)	т 1.	. <b>F</b>	•	D (	100	1 0001	
6	Joshi Vij Delhi.	aya ai	nd L.N	4.D. L	ittle, (	(1998)	, India	's Eco	nomi	c Kefo	orm 199	91-2001	,
7	Kapila L	Jma: I	ndian	Econ	omy: ]	Policie	es and	Perfc	orman	ces, A	cadem	ic	
	Foundat	.1011.											
Q	Michro	CV &	VVD	uri (71	<u>)))) "</u>	Indiar	Econ	omu	nd 1	te dar	volonm	ont	
0	experier	ice", F	v.ĸı Iimala	aya Pi	ublish	ing H	ouse.	only a	anu -1	lis uev	elopin	ent	
	1			5		0							
9	Mukhar	ji Rah	ul (ed.	.) (200	)7), Ind	dia's H	Econoi	nic Tr	ansiti	on: Tł	ne Polit	tics of	
	Reforms	, edite	ed by I	Ŕahul	Muk	herji, (	Oxford	d Univ	versity	y Conf	tempor	ary Inc	lian
	Econom	ics	2			,			J		-	2	
	Mappin	g of C	CO and	d PO									
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CO2	L			M	M			Н			L
CO3	L			M	L		Н	Н			М
CO4	L	L	M		Н		M			Н	
CO5		L	L	M	Н			Н		M	
CO6		M	L	H		М	Н				L

		Department of Economics											
			P	rog	gramme: B	SC Econ	omics						
Semester	Cou	ırse Code	Course		Course	Cours	Teaching		Credits:				
	S1 2	2 DC 604	Title:		Duratio	e Turnoi	Hours		4				
VI			History o	of	11.	Type:	week:						
			Economi	С	60 hrs	DSC	A hrs						
		1	Thought				41115						
Course		The course	and cl	harts economic									
Objectives:		create an 1	om mercan inderstand	inc	ism to the co	ontemp nomic th	orary perioc eory, ideas,	1. It 15 doctr	meant to				
		postulates	of the varie	ou	s schools of	f though	t proposed a	and d	eveloped by				
		various ec	onomists. H	Eco	nomic tho	ught fori	ns the basis	of the	e ideology and				
		policies ac	lopted in d	itte	erent count	ries.							
Course	T2	CO1 Identify the historical beginnings of economic theories, doctrines											
Outcomes		and postulates of the different schools of thought and chart out the developments over time.											
	Т2		Polata the d	:::		miete u	ith the verie		bools of				
	15		hought.		erent econo	onnists w	ith the vario	ous sci					
	T4	CO3 I	Evamine the	o re	alationshin	hetweet	economic	thoug	ht and other				
	••		ocial science	ce o	disciplines.			inoug					
	T5	CO4 I	Evaluate ec	on	omic theor	ies propo	osed by class	sical, I	Marxian and				
		r	nodern eco	no	mists		,						
	T4	CO5 /	Analyse the	e ro	ole and con	tributior	of Indian e	conon	nic thinkers.				
	T5	CO6 I	Evaluate the	e c	ontributior	ns of Not	oel Laureate	s who	have shaped				
		r	nodern eco	no	mics.								
Module 1	Intro	duction and	Early Econ	101	nic Thoug	ht			No of Hours:				
									10				
	Mean	ing of Econ	omic Thou	ght	, Nature ar	nd Metho	odological A	Appro	aches to				
	Histor	ry of Econor	mics Thoug	ght.	- Importan	ce of the	History of I	Econo	mic Thought -				
	Merca	antilism and	Physiocra	ts.									
	Early Indian Thought- Kautilya, Dadabhai Naraoji, Gopal Krishan Gokhale												
Module 2	Class	ical Econon	nic Though	t					No of Hours:				
									15				
	Origi	n and growt	h of Classic	cal	Economy,	Adam S	mith: philos	sophy	of naturalism-				
	econo	mic growth	- Adam Sm	uith	n and Unde	erdevelo	ped countrie	es Mal	Ithus: Principle				
	of Pop	pulation Da	via Ricardo	): 1	neory of D	nstributi	on, Internat	ional	1 rade J.S Mill:				

	Political Philosophy and Economic Philosophy, Theory of Growth F against Classical Economists	Reaction
Module 3	Marxian Economics	No of Hours:
		9
	Marxian philosophy, Labour Theory of Value, Theory of Surplus va Theory of development, Marx and Orthodox economists, Marx and Underdeveloped Countries- Neo-Marxism	lue, and
Module 4	Neo-Classical School	No of Hours:
		11
	Classical VS neo-classical Economics	I
	Jevons: Utility Theory of Value- Theory of Labour Supply- Theory	of Capital
	Marshall: Economic Science and Economic Policy, On Value and Di Tools of Analysis.	stribution-
Module 5	Keynesian Philosophy	No of Hours:
		5
	J.M Keynes: General Theory of Employment, Interest and Money, P Development, Keynes and the Underdeveloped Countries. Economic thoughts of Kalecki and Joan Robinson	ost Keynesian
Module 6	Nobel Laureates in Economics	No of Hours:
		10
	Nobel Laureates and their contributions.	
	Contributions of some Nobel laureates: Paul A. Samuelson, Simon H Gunner Myrdal, Milton Friedman.	Kuznets,
	Amartya Sen- Social Welfare and Economic Justice, Abhijit Banerjee Economics.	e- Poor
	Skill Development:	
1	Debate on Mercantilism and Physiocrats focussing on different aspe	ects.
2	Case Study on Indian Economic Thought.	
3	Present critiques of modern capitalist economies using Marx's theor labour and value.	ries on surplus
4	Research other Nobel laureates and their contributions.	

5	Create a comparative analysis of different Economic Thinkers													
	Book for	r Refe	rence:											
1	Deodhai thoughts	r, S. Y. . Peng	(2023) uin Bu	). Econ isiness	iomic S 5.	Sutra: 1	Ancien	ıt Indii	an ante	ecedent	ts to eco	nomic		
2	Skousen	, M. (2	2016). '	The ma	aking o	f mode	ern eco	nomics	5 (3rd )	ed.). N	1.E. Sha	arpe.		
3	Beaud, N dictionar	М., & I y of та	Dostal ajor ecc	er, G. Momis	(2005) ts. Roi	. Econ utledg	o <i>mic tl</i> ;e.	hought	since	Keynes	s: A hist	ory and	Į	
4	Backhou	Backhouse, R. (1985). <i>A history of modern economic analysis</i> . Blackwell.												
5	Schumpeter, J. A. (1954). <i>History of economic analysis</i> . Oxford University Press.													
6	Schumpeter, J. A. (1951). <i>Ten great economists from Marx to Keynes</i> . Oxford University Press.													
7	Seligma	n, B. (1	.962).	Main c	current	ts in m	odern	econon	nics. T	he Fre	e Press	•		
8	Bell, D. (	(1953).	Histor	ry of ec	conomi	c thou	ght. Ro	onald	Press.					
9	Jhingan, M. L. (1997). <i>History of economic thought</i> . Vrinda Publications.													
	Web Re	ferenc	e											
10	Alex M. Econom https:// https://	Thom ic Tho doi.or www.	as, Re ught, 1 g/10.5 jstage	cent H 2022, V 5362/j .jst.go	Iistori Volum shet.6 .jp/ar	es of I ne 64, 1 4.2_19 ticle/j	ndian Issue 2 ), shet/(	Econc 2, Page 64/2/	omic T es 19-4 64_19,	Though 14, /_artic	nt, The cle/-ch	Histor <u></u> ar/en	y of	
11.	<u>https://</u> hought_	<u>www.</u> a_seri	<u>resea</u> ous_si	<u>chgat</u> ubject	e.net/	public	cation	/ 2290	<u>50509</u>	<u>Is_his</u>	story_0	f_econe	omic_t	
12.	Alessand	dro Ro	oncagl	ia, The	e Weal	lth of ]	ldeas,	Camb	oridge	Unive	ersity P	ress		
	Mappin	g of C	O and	l PO										
	CO/P O	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO1 0	PO1 1	PO1 2	
	CO1     L     H     L     M     H     M													

CO2	L	L			М		Η	Η			М
CO3		М		Н	Μ		L		Η		L
CO4	L	М		L		М		Н		Н	
CO5		L		М	Н		М		Η		L
CO6	L	L	Μ	Μ		Н					Н

		Department of Economics											
			P	rogramme: B	SC Econor	nics							
Semester VI	This co	Cour S1 22	se Code DSE 601	Course Title: Labour Economics	Course Durati on: 45 hrs	Course Type: DSE	Teachin g Hours Per week: 3 hrs	Credi ts: 3					
Objectives :	develop underst factor, c will also models, explore investig measure with Int	and dem covering o study , and ado s indust gates lab es and g ternation	ntries, focus nand and su absenteeisi wage detern dress issues rial relation our welfare overnment nal Labour (	sing on classic upply forces. I m, unemployr mination theo like fair wag s, trade union and state pol policies on la Organization	ation of fai cal, neoclas t examine nent, and ries, inclue es and way is, and dis icies, inclue bour issue standards.	ssical, and d s labour as a migration th ding classica ge policies. pute resolut iding social s, with a foc	ualistic mo a productioneories. Stu al and barg The course ion method security cus on align	odels to on idents aining ds, and ning					
Course Outcomes	T4 T4	CO1 CO2	Analyze L and functi using class understan Assess the market: In issues like theories, a	abour Market oning of labor sical, neoclass d demand and functioning of terpret the rol absenteeism, nd their impli	Dynamics ur markets ical, and d d supply f of demand le of labou unemploy ications fo	s: Evaluate t in develop lualistic mod actors and supply r in product ment, and 1 r economic j	the charactering countri dels to forces in t tion, addre migration policy	eristics es, he ssing					
	T4	CO3	Assess the applying t Model and rural and factors inf economic	impact of mi heoretical fra Lee's theory urban areas, a luencing migr contexts	gration on meworks s to assess t s well as e ration deci	rural and u such as the F the impact o valuate the sions in vari	rban areas Harris-Toda f migration push and p ious socio-	: aro 1 on pull					
	T3	CO4	Apply Wage Determination Theories: Utilize various wage determination theories to analyze wage structures, fair wages, and the impact of wage policies across different sectors and demographic groups										
	T5	CO5	Evaluate I welfare pr policies af agricultura Labour Or	Labour Welfar ograms, socia fecting labour al and child la ganization sta	e and Stat l security , including bour, and andards	e Policies: A measures, a g issues rela align with l	nalyze lab nd governi ted to Internation	our nent al					

Module 1	Introduction to Labour Market	No of Hours:
		5
	Meaning and characteristics of labour-labour as a factor in produc and characteristics of labour markets in Developing countries like Absenteeism-Concept-Causes. Paradigms of Labour Market: Class classical and dualistic model.	tion. Nature India sical, Neo-
Module 2	Demand for and Supply of Labour	No of Hours:
		10
	Analysis of demand-supply forces- Demand for Labour market re- and pattern of investment, choice of technology, and Government policies and Their orientation. Supply of labour in relation to grow force - Labour Market process	lating to size Labour ⁄th of Labour
Module 3	Unemployment and Migration	No of Hours:
	Unemployment- concept-Types-Sources of Unemployment- Theor search Migration and unemployment. Migration-Types- Lee's the Migration-Effects on Rural and Urban Areas. Migration Transition Aspirations-Capabilities Model	ry of Job ory of n-The
Module 4	Wage Determination: Theory and Practice	No of Hours:
		12
	Concepts of wages - fair, living- minimum problems of implement minimum wages. Wage determination by sectors - Urban and Rur and Unorganised sectors. Wage and non-wage components of Lal recommendation. Wage and productivity and wage and inflation is productivity and profit sharing schemes - case studies - wage polic	tation of al Organised bour relationship - cy in India.
Module 5	Labour Welfare and State	No of Hours:
		6
	Meaning, Definition, and Scope of Labour welfare-Types of Welfa Principles of labour welfare. Labour Code, Labour Policy in India- ILO. Social Security-Concepts (Social Insurance and Social Assista Objectives-measures of Social Security in India. Government polic Labour and trade unions Agricultural Labour – Child Labour – La Unorganised sectors - VRS Policy.	re services- India and nce) and y towards bour in
	Skill Development:	
1	Labour Market Analysis Report	

2	Case Study on Labour as a Production Factor												
3	Wage Determination Simulation												
4	Industrial Relations and Trade Unions Project												
5	Labour Welfare Policy Analysis and Critique.												
6	Field St	udy o	n Mig	ration	Patte	rns							
	Book fo	or Ref	erence	e: (Stri	ictly A	APA F	ormat	t)					
1	Bell, D.N.F., & Blanchflower, D.G. (2021). The Economics of Youth Unemployment: Theory and Evidence. Routledge.												
2	Borjas, G.J. (2019). Labor Economics (8th Edition). McGraw-Hill Education.												
3	Katz, L.F., & Autor, D.H. (Eds.). (2020). The Economics of Labor Markets (8th Edition). Routledge.												
4	Jhabvala, R. & Subrahmanya, R.K. (Eds.) (2000). The Unorganised Sector: Work Security and Social Protection. Sage Publications, New Delhi.												
5	Papola, T.S. & Rodgers, G. (Eds.). (1992). Labour Institutions and Economic Development in India. International Institute for Labour Studies, Geneva.												
6	Solow, R.M. (1990). Labour Market as an Institution. Blackwell, London.												
7	McConnell, C.R. & Brue, S.L. (1986). Contemporary Labour Economics. McGraw-Hill, New York.												
8	Rosenberg, M.R. (1988). Labour Markets in Low Income Countries, In Chenery, H.B. and T.N. Srinivasan, (Eds.), The Handbook of Development Economics. North-Holland, New York.												
	Mappir	ng of (	CO an	ld PO									
	CO/P	PO	PO	PO	PO	PO	PO	PO	PO	PO	PO1	PO1	PO1
	0	1	2	3	4	5	6	7	8	9	0	1	2
	CO1	L	M	M	L			Н					H
	CO2	L	L		M				Н	Н		М	
	CO3	L	M					Н	Н			М	L
	CO4	L	M			L	M		Н			Н	М
	CO5	Н	M	L	L		M			Н			L
	CO6	L	L		L		M		Н		Н		