M A ECONOMICS

LOCF SYLLABUS 2023

Department of Economics

School of Management Studies

St. Joseph's College (Autonomous)

Tiruchirappalli - 620002, Tamil Nadu, India

SCHOOLS OF EXCELLENCE WITH CHOICE BASED CREDIT SYSTEM (CBCS) POSTGRADUATE COURSES

St. Joseph's College (Autonomous), an esteemed institution in the realm of higher education in India, has embarked on a journey to uphold and perpetuate academic excellence. One of the pivotal initiatives in this pursuit is the establishment of five Schools of Excellence commencing from the academic year 2014-15. These schools are strategically designed to confront and surpass the challenges of the 21st century.

Each School amalgamates correlated disciplines under a unified umbrella, fostering synergy and coherence. This integrated approach fosters the optimal utilization of both human expertise and infrastructure. Moreover, it facilitates academic fluidity and augments employability by nurturing a dynamic environment conducive to learning and innovation. Importantly, while promoting collaboration and interdisciplinary study, the Schools of Excellence also uphold the individual identity, autonomy, and distinctiveness of every department within.

The overarching objectives of these five schools are as follows:

1. Optimal Resource Utilization: Ensuring the efficient use of both human and material resources to foster academic flexibility and attain excellence across disciplines.

2. Horizontal Mobility for Students: Providing students with the freedom to choose courses aligning with their interests and facilitating credit transfers, thereby enhancing their academic mobility and enriching their learning experience.

3. Credit-Transfer Across Disciplines (CTAD): The existing curricular structure, compliant with regulations from entities such as TANSCHE and other higher educational institutions, facilitates seamless credit transfers across diverse disciplines. This underscores the adaptability and uniqueness of the choice-based credit system.

4. Promotion of Human Excellence: Nurturing excellence in specialized areas through focused attention and resources, thus empowering individuals to excel in their respective fields.

5. Emphasis on Internships and Projects: Encouraging students to engage in internships and projects, serving as stepping stones toward research endeavors, thereby fostering a culture of inquiry and innovation.

6. Addressing Stakeholder Needs: The multi-disciplinary nature of the School System is tailored to meet the requirements of various stakeholders, particularly employers, by equipping students with versatile skills and competencies essential for success in the contemporary professional landscape.

In essence, the Schools of Excellence at St. Joseph's College (Autonomous) epitomize a holistic approach towards education, aiming not only to impart knowledge but also to cultivate critical thinking, creativity, and adaptability – qualities indispensable for thriving in the dynamic global arena of the 21st century.

Credit system

The credit system at St. Joseph's College (Autonomous) assigns weightage to courses based on the hours allocated to each course. Typically, one credit is equivalent to one hour of instruction per week. However, credits are awarded regardless of actual teaching hours to ensure consistency and adherence to guidelines.

The credits and hours allotted to each course within a programme are detailed in the Programme Pattern table. While the table provides a framework, there may be some flexibility due to practical sessions, field visits, tutorials, and the nature of project work.

For postgraduate (PG) courses, students are required to accumulate a minimum of 110 credits, as stipulated in the programme pattern table. The total minimum number of courses offered by the department is outlined in the Programme Structure.

OUTCOME-BASED EDUCATION (OBE)

OBE is an educational approach that revolves around clearly defined goals or outcomes for every aspect of the educational system. The primary aim is for each student to successfully achieve these predetermined outcomes by the culmination of their educational journey. Unlike traditional methods, OBE does not prescribe a singular teaching style or assessment format. Instead, classes, activities, and evaluations are structured to support students in attaining the specified outcomes effectively.

In OBE, the emphasis lies on measurable outcomes, allowing educational institutions to establish their own set of objectives tailored to their unique context and priorities. The overarching objective of OBE is to establish a direct link between education and employability, ensuring that students acquire the necessary skills and competencies sought after by employers.

OBE fosters a student-centric approach to teaching and learning, where the delivery of courses and assessments are meticulously planned to align with the predetermined objectives and outcomes. It places significant emphasis on evaluating student performance at various levels to gauge their progress and proficiency in meeting the desired outcomes.

Here are some key aspects of Outcome-Based Education:

Course: A course refers to a theory, practical, or a combination of both that is done within a semester.

Course Outcomes (COs): These are statements that delineate the significant and essential learning outcomes that learners should have achieved and can reliably demonstrate by the conclusion of a course. Typically, three or more course outcomes are specified for each course, depending on its importance.

Programme: This term pertains to the specialization or discipline of a degree programme.

Programme Outcomes (POs): POs are statements that articulate what students are expected to be capable of by the time they graduate. These outcomes are closely aligned with Graduate Attributes.

Programme Specific Outcomes (PSOs): PSOs outline the specific skills and abilities that students should possess upon graduation within a particular discipline or specialization.

Programme Educational Objectives (PEOs): PEOs encapsulate the expected accomplishments of graduates in their careers, particularly highlighting what they are expected to achieve and perform during the initial years postgraduation.

LEARNING OUTCOME-BASED CURRICULUM FRAMEWORK (LOCF)

The Learning Outcomes-Centric Framework (LOCF) places the learning outcomes at the forefront of curriculum design and execution. It underscores the importance of ensuring that these outcomes are clear, measurable, and relevant. LOCF orchestrates teaching methodologies, evaluations, and activities in direct correlation with these outcomes. Furthermore, LOCF adopts a backward design approach, focusing on defining precise and attainable learning objectives. The goal is to create a cohesive framework where every educational element is in harmony with these outcomes.

Assessment practices within LOCF are intricately linked to the established learning objectives. Evaluations are crafted to gauge students' achievement of these outcomes accurately. Emphasis is often placed on employing authentic assessment methods, allowing students to showcase their learning in real-life scenarios. Additionally, LOCF frameworks emphasize flexibility and adaptability, enabling educators to tailor curriculum and instructional approaches to suit the diverse needs of students while ensuring alignment with the defined learning outcomes.

Some important terminologies

Core Courses (CC): *These are compulsory courses that students must undertake as essential components of their curriculum, providing fundamental knowledge within their primary discipline. Including core courses is essential to maintain a standardized academic programme, ensuring recognition and consistency across institutions.*

Common Core (CC): *A common core course is a shared educational element encompassing fundamental topics across disciplines within a school. It promotes interdisciplinary comprehension and collaboration among students by providing a foundational understanding of key subjects essential for academic and professional success across diverse fields of study.*

Elective Courses (ES): *Elective courses are offered within the main discipline or subject of study. They allow students to select specialized or advanced options from a range of courses, offering in-depth exposure to their chosen area of study. Typically, ES are more applied in nature and provide a deeper understanding of specific topics.*

Generic Elective Courses (EG): *These elective courses are chosen from disciplines unrelated to the student's main area of study, aiming to broaden their exposure and knowledge base. As per the Choice Based Credit System (CBCS) policy, students may opt for generic elective courses offered by other disciplines within the college, enhancing the diversity of their learning experience.*

Ability Enhancement Course (AE): *AE is designed to enhance skills and proficiencies related to the student's main discipline. It aims to provide practical training and hands-on experience, contributing to the overall development of students pursuing academic programmes.*

Skill Enhancement Course (SE): *SE focus on developing specific skills or proficiencies relevant to students' academic pursuits. While it is open to students from any discipline, SE is particularly beneficial for those within the related academic programme.*

Self-paced Learning (SP): *This course promotes independent learning habits among students and they have to undergo the course outside the regular class hours within a specified timeframe.*

Comprehensive Examinations (CE): *These examinations cover detailed syllabi comprising select units from courses offered throughout the programme. They are designed to assess crucial knowledge and content that may not have been covered extensively in regular coursework.*

Extra Credit Courses: *To support students in acquiring knowledge and skills through online platforms such as Massive Open Online Courses (MOOCs), additional credits are granted upon verification of course completion. These extra credits can be availed across five semesters (2 - 6). In line with UGC guidelines, students are encouraged to enhance their learning by enrolling in MOOCs offered by portals like SWAYAM, NPTEL, and others. Additionally, certificate courses provided by the college are also considered for these extra credits.*

Outreach Programme (OR): *It is a compulsory course to create a sense of social concern among all the students and to inspire them to dedicated service to the needy.*

Course Coding

The following code system (10 alphanumeric characters) is adopted for Postgraduate courses:

23	**UXX**	**0**	**XX**	**00/X**
Year of Revision	PG Department Code	Semester Number	Course Specific Initials*	Running Number/with Choice

***Course Specific Initials**

CC - Core Course

CP - Core Practical

ES - Elective

AE - Ability Enhancement Course

SP - Self-paced Learning

EG - Generic Elective

PW - Project and Viva Voce

CE - Comprehensive Examination

OR - Outreach Programme

IS - Internship

EVALUATION PATTERN

Continuous Internal Assessment

Sl No	Component	Marks Alloted
1	Mid Semester Test	30
2	End Semester Test	30
3	*Three Components (15 + 10 + 10)	35
4	Library Referencing (30 hours)	5
	Total	**100**

Passing minimum: 50 marks

* *The first component is a compulsory online test (JosTEL platform) comprising 15 multiple choice questions (10 questions at K1 level and 5 questions at K2 level); The second and the third components are decided by the course in-charge.*

Question Paper Blueprint for Mid and End Semester Tests

<table>
<tr><td colspan="3">Duration: 2 Hours</td><td colspan="6">Maximum Marks: 60</td></tr>
<tr><td colspan="2" rowspan="2">Section</td><td colspan="6">K levels</td><td rowspan="2">Marks</td></tr>
<tr><td>K1</td><td>K2</td><td>K3</td><td>K4</td><td>K5</td><td>K6</td></tr>
<tr><td colspan="2">A (compulsory)</td><td>7</td><td></td><td></td><td></td><td></td><td></td><td>7 × 1 = 7</td></tr>
<tr><td colspan="2">B (compulsory)</td><td></td><td>5</td><td></td><td></td><td></td><td></td><td>5 × 3 = 15</td></tr>
<tr><td colspan="2">C (either…or type)</td><td></td><td></td><td>3</td><td></td><td></td><td></td><td>3 × 6 = 18</td></tr>
<tr><td rowspan="4">D (2 out of 3)</td><td>For courses with K5 as the highest cognitive level, one K4 and one K5 question is compulsory.
(Note: two questions on K4 and one question on K5)</td><td></td><td></td><td></td><td>1</td><td>1*</td><td></td><td rowspan="4">2 × 10 = 20</td></tr>
<tr><td rowspan="3">For courses with K6 as the highest cognitive level: Mid Sem: two questions on K4 and one question on K5; End Sem: two questions on K5 and one question on K6)</td><td></td><td></td><td></td><td colspan="2">Mid Sem</td><td></td></tr>
<tr><td></td><td></td><td></td><td></td><td colspan="2">End Sem</td></tr>
<tr><td></td><td></td><td></td><td>1</td><td>1</td><td>1*</td></tr>
<tr><td colspan="7">Total</td><td>60</td></tr>
</table>

***** *Compulsory*

Question Paper Blueprint for Semester Examination

Duration: 3 Hours						**Maximum Marks: 100**
UNIT	**Section A** *(Compulsory)*	**Section B** *(Compulsory)*	**Section C** *(Either…or type)*	**Section D** *(3 out of 5)*		
	K1	**K2**	**K3**	**K4**	**K5**	**K6**
UNIT I	2	2	2	2*	2*	1*
UNIT II	2	2	2			
UNIT III	2	2	2			
UNIT IV	2	2	2			
UNIT V	2	2	2			
Marks	**10 × 1 = 10**	**10 × 3 = 30**	**5 × 6 = 30**	**3 × 10 = 30**		

** For courses with K6 as the highest cognitive level wherein one question each on K4, K5 and K6 is compulsory.*
(Note: two questions each on K4 and K5 and one question on K6)

Evaluation Pattern for One/Two-credit Courses

Title of the Course	CIA	Semester Examination	Total Marks
• Ability Enhancement Course	20 + 10 + 20 = 50	50 *(A member from the Department other than the course instructors)*	100
• Self-paced Learning • Comprehensive Examination	25 + 25 = 50	50 *(CoE)*	100
• Internship	100	-	100
• Skill Enhancement Course: Soft Skills	100	-	100
• Project Work and Viva Voce	100	100	100

Grading System

The marks obtained in the CIA and semester for each course will be graded as per the scheme provided in Table - 1.

From the second semester onwards, the total performance within a semester and the continuous performance starting from the first semester are indicated by Semester Grade Point Average (SGPA) and Cumulative Grade Point Average (CGPA), respectively. These two are calculated by the following formulae:

$$SGPA \ and \ CGPA = \frac{\sum_{i=1}^{n} C_i Gp_i}{\sum_{i=1}^{n} C_i}$$

$$WAM = \frac{\sum_{i=1}^{n} C_i M_i}{\sum_{i=1}^{n} C_i}$$

Where,

Ci - credit earned for the Course i

Gpi - Grade Point obtained for the Course i

Mi - Marks obtained for the Course i

*n - Number of Courses **passed** in that semester*

WAM - Weighted Average Marks

Table - 1: Grading of the Courses

Mark Range	Grade Point	Corresponding Grade
90 and above	10	O
80 and above and below 90	9	A+
70 and above and below 80	8	A
60 and above and below 70	7	B+
50 and above and below 60	6	B
Below 50	0	RA

Table - 2: Grading of the Final Performance

CGPA	Grade	Performance
9.00 and above	O	Outstanding*
8.00 to 8.99	A+	Excellent*
7.00 to 7.99	A	Very Good
6.00 to 6.99	B+	Good
5.00 to 5.99	B	Above Average
Below 5.00	RA	Re-appear

**The Candidates who have passed in the first appearance and within the prescribed duration of the PG programme are eligible. If the Candidates Grade is O/A+ with more than one attempt, the performance is considered "Very Good".*

Vision

Forming globally competent, committed, compassionate and holistic persons, to be men and women for others, promoting a just society.

Mission

- Fostering learning environment to students of diverse background, developing their inherent skills and competencies through reflection, creation of knowledge and service.
- Nurturing comprehensive learning and best practices through innovative and value- driven pedagogy.
- Contributing significantly to Higher Education through Teaching, Learning, Research and Extension.

Programme Educational Objectives (PEOs)

1. Graduates will be able to accomplish professional standards in the global environment.
2. Graduates will be able to uphold integrity and human values.
3. Graduates will be able to appreciate and promote pluralism and multiculturalism in working environment.

Programme Outcomes (POs)

1. Graduates will be able to apply assimilated knowledge to evolve tangible solution to emerging problems.
2. Graduates will be able to analyze and interpret data to create and design new knowledge.
3. Graduates will be able to engage in innovative and socially relevant research and effectively communicate the findings.
4. Graduates will become ethically committed professional and entrepreneurs upholding human values.
5. Graduates imbibed with ethical values and social concern will be able to understand and appreciate cultural diversity, social harmony and ensure sustainable environment.

Programme Specific Objectives (PSOs)

1. Define and apply the fundamental concepts, principles and methods of Economics in Multidisciplinary fields.
2. Develop and use the analytical skills and intellectual maturity to comprehend the complexities in the working of the economy.
3. Apply and estimate mathematical and statistical tools in the analysis of emerging economic and social problems.
4. Understand and infer the research culture and uphold ethical, social and economic responsibilities of environmental sustainability.
5. Create and integrate entrepreneurial development skills and Corporate Social Responsibilities to build a successful career and to promote social welfare.

PROGRAMME STRUCTURE				
Semester	**Course Specification**	**Number of Courses**	**Hours**	**Credits**
1 - 4	Core Course	12	75	69
1, 2, 4	Elective	4	20	14
1	Ability Enhancement Course	1	2	1
2	Self-paced Learning	1	-	2
2	Skill Enhancement Course	1	4	3
2, 3	Generic Elective	2	8	6
3	Common Core	1	5	4
2 - 4	Extra Credit Course	3	-	(9)
4	Project Work and Viva Voce	1	6	5
4	Comprehensive Examination	1	-	2
2 - 4	Outreach Program	-	-	4
	Total	**27**	**120**	**110(9)**

M A ECONOMICS							
Course Details					Scheme of Exams		
Sem	**Course Code**	**Title of the Course**	**Hours**	**Credits**	**CIA**	**SE**	**Final**
1	23PEC1CC01	**Core Course - 1:** Advanced Microeconomics	6	6	100	100	100
	23PEC1CC02	**Core Course - 2:** Indian Economic Development and Policy	6	5	100	100	100
	23PEC1CC03	**Core Course - 3:** Statistics for Economists	6	5	100	100	100
	23PEC1ES01	**Elective - 1:** Modern Economic Thought	5	3	100	100	100
	23PEC1ES02	**Elective - 2:** Welfare Economics	5	3	100	100	100
	23PEC1AE01	**Ability Enhancement Course:** Business Management with Tally	2	1	100	-	100
		Total	**30**	**23**			
2	23PEC2CC04	**Core Course - 4:** Public Economics	5	5	100	100	100
	23PEC2CC05	**Core Course - 5:** Mathematics for Economists	6	5	100	100	100
	23PEC2CC06	**Core Course - 6:** Macroeconomic Process	6	5	100	100	100
	23PEC2SP01	**Self-paced Learning:** Economics of Tourism*	-	2	50	50	50
	23PEC2ES03A	**Elective - 3:** Agricultural Economics	5	4	100	100	100
	23PEC2ES03B	**Elective - 3:** Behavioural Economics					
	23PSS2SE01	**Skill Enhancement Course:** Soft Skills	4	3	100	-	100
	-	**Generic Elective - 1 (WS):** Refer ANNEXURE 1	4	3	100	100	100
	-	Extra Credit Courses (MOOC/Certificate Courses) - 1	-	(3)			
		Total	**30**	**27(3)**			
3	23PEC3CC07	**Core Course - 7:** Economics of Growth and Development	7	7	100	100	100
	23PEC3CC08	**Core Course - 8:** Monetary Economics	7	7	100	100	100
	23PEC3CC09	**Core Course- 9:** Econometrics	7	7	100	100	100
	23SMS3CC01	**Common Core:** Human Resource Management	5	4	100	100	100
	-	**Generic Elective - 2 (BS):** Refer ANNEXURE 2	4	3	100	100	100
	-	Extra Credit Courses (MOOC/Certificate Courses) - 2	-	(3)			
		Total	**30**	**28(3)**			
4	23PEC4CC10	**Core Course - 10:** International Economics	7	6	100	100	100
	23PEC4CC11	**Core Course - 11:** Research Methodology	6	5	100	100	100
	23PEC4CC12	**Core Course - 12:** Industrial Economics	6	6	100	100	100
	23PEC4ES04A	**Elective - 4:** Optimization Techniques in Economics	5	4	100	100	100
	23PEC4ES04B	**Elective - 4:** Information Economics					
	23PEC4PW01	Project Work and Viva Voce	6	5	100	100	100
	23PEC4CE01	Comprehensive Examination*	-	2	50	50	50
	-	Extra Credit Courses (MOOC/Certificate Courses) - 3	-	(3)			
		Total	**30**	**28(3)**			
2 - 4	23PCW4OR01	Outreach Programme (SHEPHERD)	-	4			
1 - 4		**Total (2 years)**	**120**	**110(9)**			

*- for grade calculation 50 marks are converted into 100 in the mark statements

Passed by	***Board of Studies held on 18.12.2023***
Approved by	***48th Academic Council Meeting held on 27.03.2024***

ANNEXURE 1
Generic Elective - 1 (WS)*

Course Details		
School	**Course Code**	**Title of the Course**
SMS	23PCO2EG01	Accounting for Managers
	23PCC2EG01	Stress Management
	23PCP2EG01	Personality Development
	23PHR2EG01	Human Behaviour

**Offered to students from other Departments within School*

ANNEXURE 2
Generic Elective - 1 (BS)*

Course Details		
School	**Course Code**	**Title of the Course**
SBS	23PBI3EG02	First Aid Management
	23PBT3EG02	Food Technology
	23PBO3EG02	Horticulture and Landscaping
SCS	23PCA3EG02	Web Design
	23PCS3EG02	Advances in Computer Science
	23PDS3EG02	Information Security and Ethics
	23PMA3EG02	Operations Research
SLAC	23PEN3EG02	English for Effective Communication
SPS	23PCH3EG02	Health Science
	23PEL3EG02	Computer Hardware and Networks
	23PPH3EG02A	Physics for Competitive Exams
	23PPH3EG02B	Nanoscience

**Offered to students from other Schools*

Semester	Course Code	Title of the Course	Hours/Week	Credits
1	23PEC1CC01	**Core Course - 1:** Advanced Micro Economics	6	6

Course Objectives
To make the students to understand consumer behavior and Consumer Choice
To Explore Economics of Information to study real-world applications such as the market for lemons, adverse selection and Principal agent problem
To examine different market structures, including perfect competition, monopoly, monopolistic competition, and oligopoly
To explore alternative theories of firm behavior, such as full-cost pricing, limits pricing theory, Bains Theory, and Modigliani's Models
To grasp the neo-classical approach to distribution, including the marginal productivity theory and the product exhaustion theorem

UNIT I: Consumer Choice **(18 Hours)**

Cardinal and ordinal utility - Indifference curve approach - Slutsky's Decomposition of price effect into substitution effect and income effect - Consumer surplus - Marshall's and Hicksian measures - Compensatory Demand Curve- Revealed Preference Theorem- and derivation of Marginal Utility schedule for money income.

UNIT II: Economics of Information **(18 Hours)**

Informational asymmetry -- Choice under Uncertainty - N-M Index - Inter-temporal choice Market for lemons- Adverse selection - Insurance market and adverse selection - Solution to principal agent problem- Hidden action (Moral Hazard) - Signaling and Screening.

UNIT III: Market Structure Models **(18 Hours)**

a) Perfect competition - Price and output determination - Optimum firm
b) Monopoly - Short run and long run equilibrium - Price discrimination monopoly control, and regulation - Contestable Market
c) Monopolistic competition-Chamberlin Model- selling costs - Excess capacity
d) Oligopoly - Duopoly price game-dominant strategy-Nash Equilibrium Non-collusive Models Cournot- Bertrand - Chamberlin - Edgeworth -Sweezy - Stackelberg- Oligopoly - Collusive Models - Cartels and mergers -Price leadership - Base point price system
e) Monopsony - Price and output determination - Workable competition.

UNIT IV: Alternative Theories of Firm **(18 Hours)**

Full Cost Pricing Rule- Limits pricing theory- Bains Theory- Sylos- Labini Model Modigliani's Models- Input-output model -Linear programming applications in decision making- Peak Load Pricing - Administered Pricing- Purchasing Power Parity Price.

UNIT V: Distribution Theories **(18 Hours)**

Neo-classical approach - Marginal productivity theory; Product exhaustion theorem; - Modern theory of distribution - Factor Pricing in imperfect product and factor markets- Determination of Wages -Labour supply and wage determination - Role of trade unions and collective bargaining- Theories of Interest- Theories of Profit.

Teaching Methodology	PPTs -Brainstorming method-Written assignment on Current Issues-Preparation of PPTs by the students-Students are encouraged to handle seminar-Students are motivated to do online quizzing through Jostel

Books for Study

1. Jhingan, M. L. (2004). *Advanced economic theory,* (Reprint). Vrindha Publications (P) Ltd.
2. Agarwal, H. S. (n.d). *Micro economic theory*. Ane's Books Pvt. Ltd.

Books for Reference

1. Varian, H. R. (2004). *Intermediate micro economics*. East-West Press.
2. Roy, R. J. (1992). *Intermediate micro economics*. Harper & Collins Publishers.

3. Koutsyiannis, A. (1978). *Modern micro economics*. Macmillan.

Websites and eLearning Sources

1. http://open.oregonstate.education/intermediatemicroeconomics/chapter/mod ule-1
2. http://saylordotorg.github.io/text_introduction-toeconomicanalysis/s16-monopoly.html
3. http://saylordotorg.github.io/text_introduction-toeconomicanalysis/s17-games-and -strategic-behaviour.html

Course Outcomes		
CO No.	**CO-Statements** On successful completion of this course, the students will be able to	**Cognitive Levels (K-Level)**
CO1	illustrate and analyse the theories of consumer behavior	**K1**
CO2	illustrate and identify the choice under uncertainty.	**K2**
CO3	compare how price and output is determined in different mark situations and evaluate the market structures	**K3**
CO4	identify and examine the alternative theories of firms.	**K4**
CO5	define, explain, and compare the theory of distribution.	**K5**
CO6	Explore distribution theories to understand income distribution and economic equity	**K6**

Relationship Matrix											
Semester	**Course Code**			**Title of the Course**						**Hours**	**Credits**
1	**23PEC1CC01**			**Core Course - 1:** Advanced Micro Economics						**6**	**5**
Course Outcomes	**Programme Outcomes (POs)**					**Programme Specific Outcomes (PSOs)**					**Mean Score of COs**
	PO1	**PO2**	**PO3**	**PO4**	**PO5**	**PSO1**	**PSO2**	**PSO3**	**PSO4**	**PSO5**	
CO1	3	3	2	3	2	3	3	2	2	2	**2.5**
CO2	3	3	2	2	2	3	3	2	3	3	**2.6**
CO3	3	1	2	3	2	2	3	2	2	2	**2.2**
CO4	3	2	2	2	1	3	3	2	2	2	**2.2**
CO5	3	3	3	3	2	3	3	2	2	3	**2.7**
CO6	3	3	3	2	2	2	3	2	2	3	**2.5**
										Mean Overall Score	**2.45 (High)**

Semester	Course Code	Title of the Course	Hours/Week	Credits
1	23PEC1CC02	**Core Course - 2:** Indian Economic Development and Policy	6	5

Course Objectives
To develop a comprehensive understanding of the Indian economy's historical growth and structural changes since independence
To analyze the performance and dynamics of the agricultural and industrial sectors in India
To examine the fiscal developments and trends in the financial sector in the post-liberalization period, along with the impact of Goods and Services Tax (GST) on the economy
To evaluate the concepts of poverty and inequality in India and examine the impact of economic growth on poverty
To explore various social sector issues in India
To develop a comprehensive understanding of the Indian economy's historical growth and structural changes since independence

UNIT I: Introduction **(18 Hours)**

Growth and Structural Changes in Indian economy during Independence- The policy framework: statist policy, transition to market-oriented policy, role of erstwhile Planning Commission and NITI Aayog- Two phases of growth (1950-1980 and 1980 onwards), factors underlying turn around- Structural change in Indian economy.

UNIT II: Agricultural and Industrial Sector **(18 Hours)**

Agricultural and Industrial Sectors - Agricultural Sector Performance of agricultural sector, factors determining agricultural growth - Factors underlying food inflation- Agricultural price policy and food security Industrial Growth - Industrial growth before and after reforms - Dualism in Indian manufacturing- Issues in performance of public sector enterprises and privatization.

UNIT III: Fiscal Developments **(18 Hours)**

Fiscal Developments, Finance and External Sector Expenditure trends- GST: rationale and impact- Evolution of the financial sector in post-liberalization period- External sector performance: emergence of India as major exporter in services, performance of manufacturing sector.

UNIT IV: Poverty and Inequality **(18 Hours)**

Poverty and Inequality - Measuring poverty in India: Selection of poverty lines- Poverty in pre and post liberalization periods- Impact of growth on poverty- PDS vs cash transfers, feasibility of universal basic income in India - Inequality in India in pre and post liberalization periods.

UNIT V: Social Sector **(18 Hours)**

Social Issues Gender gap in India and trends in female labour force participation rates, factors determining female labour force participation- Employment: changing nature of employment in India, "jobless growth"- Labour in informal sector- India's graphic transition.

Teaching Methodology	PPTs -Brainstorming method-Written assignment on Current Issues-Preparation of PPTs by the students-Students are encouraged to handle seminar-Students are motivated to do online quizzing through Jostel

Books for Study

1. Sundaram, K. P. M. (2002). *Indian economy,* (42nd Revised Ed.). S. Chand Publications.
2. Misra, S. & Puri, V. (2020). *Indian economy,* (Revised Ed.). S. Chand Publications.

Books for Reference

1. Basu, K. (Ed.). (2012). *Oxford companion to Indian economy,* (3rd Ed.). OUP.
2. Kapila, U. (Ed.). (2018). *Indian economy since Independence,* (29th Ed.). Academic Foundation.

3. Goyal, A. (Ed.) (n.d). *The oxford handbook of the Indian economy in the 21st century: understanding the inherent dynamism*. Oxford University Press.

Websites and eLearning Sources

1. https://www.adb.org/countries/india/economy
2. https://www.oecd.org/economy/india-economic-snapshot/
3. https://www.indiabudget.gov.in/economicsurvey/

Course Outcomes		
CO No.	**CO-Statements** On successful completion of this course, the students will be able to	**Cognitive Levels (K-Level)**
CO1	understand the structural change in Indian economy	**K1**
CO2	assess the performance of agricultural and industrial sector	**K2**
CO3	ability to learn the trends in the economy	**K3**
CO4	understand the impact of poverty	**K4**
CO5	identify social issues like unemployment, gender disparities	**K5**
CO6	critically assess the fiscal developments in India	**K6**

Relationship Matrix											
Semester	**Course Code**	**Title of the Course**								**Hours**	**Credits**
1	**23PEC1CC02**	**Core Course - 2:** Indian Economic Development and Policy								**6**	**5**
Course Outcomes	**Programme Outcomes (POs)**					**Programme Specific Outcomes (PSOs)**					**Mean Score of COs**
	PO1	**PO2**	**PO3**	**PO4**	**PO5**	**PSO1**	**PSO2**	**PSO3**	**PSO4**	**PSO5**	
CO1	3	3	2	3	2	3	3	2	2	2	**2.5**
CO2	3	3	2	2	2	3	3	2	3	3	**2.6**
CO3	3	1	2	3	2	2	3	2	2	2	**2.2**
CO4	3	2	2	2	1	3	3	2	2	2	**2.2**
CO5	3	3	3	3	2	3	3	2	2	3	**2.7**
CO6	3	2	3	3	2	3	3	2	3	3	**2.7**
										Mean Overall Score	**2.48 (High)**

Semester	Course Code	Title of the Course	Hours/Week	Credits
1	23PEC1CC03	**Core Course - 3:** Statistics for Economists	6	5

Course Objectives
To provide a strong foundation in statistical concepts and develop skills in data handling and research.
To infer the intensity of relationship between multiple variables and building appropriate statistical models.
To analyze test of significance for large and small samples.
To perform ANOVA for both one-way and two-way classifications.
To learn the key definitions and concepts of statistical decision theory

UNIT I: Probability **(18 Hours)**

Probability - Addition and Multiplication Theorems - Conditional Probability - Discrete and Continuous - Random Variables - Mathematical Expectations - Bayes Theorem - Theoretical Distributions - Binomial, Poisson and Normal.

UNIT II: Sampling and Hypothesis Testing **(18 Hours)**

Sampling Theory - Types of Sampling - Sampling Distributions - Parameter and Statistic - Testing of Hypothesis - Level of Significance - Type I and Type II Errors - Standard Error - Properties of Estimator.

UNIT III: Test of Significance Large and Small Sample **(18 Hours)**

Difference between Large and Small Samples - Test of Significance for Large Samples - Test for Two Means and Standard Deviations - Proportion and Confidence Interval - Small Sample Test - t-test - Paired t- test - Chi-square Test- Test of Goodness of Fit.

UNIT IV: Analysis of Variance **(18 Hours)**

F test: Assumptions in F test - Analysis of Variance: Assumptions - One-Way and Two-Way Classifications

UNIT V: Statistical Decision Theory **(18 Hours)**

Definitions - Concepts - Maximin - Minimax - Bayes Criterion - Expected Monetary Value - Decision Tree Analysis: Symbols - Steps - Advantages and Limitations.

Teaching Methodology	PPTs -Brainstorming method -Written assignment on Current Issues-Preparation of PPTs by the students-Students are encouraged to handle seminar-Students are motivated to do online quizzing through Jostel

Books for Study

1. Gupta, S. P. (2017). *Statistical methods*. Sultan Chand & Sons.
2. Anderson, Sweeney & Williams. (2014). *Statistics for business and economics*. Cengage.

Books for Reference

1. Aggarwal, Y. P. (2002). *Statistics methods - Concepts, application and computation*. Sterling Publishers Private Ltd.
2. Vittal, P. R. (n.d). *Mathematical statistics*. Margham Publications
3. Pillai, R. S. N. & Bagavathi, V. (2010). *Statistics*. Sultan & Chand Sons.

Websites and eLearning Sources

1. https://www.statista.com.
2. https://techjury.net
3. https://dss.princeton.edu/online_help/analysis/interpreting_regression.htm

Course Outcomes		
CO No.	**CO-Statements** On successful completion of this course, the students will be able to	**Cognitive Levels (K-Level)**
CO1	summarize the basic Probability rules and understand theoretical distributions.	**K1**
CO2	acquire knowledge on the various sampling methods and testing of Hypotheses	**K2**
CO3	use 't' test and chi square test for analysis	**K3**
CO4	understand the importance of one and two way ANOVA	**K4**
CO5	know the various decision making tools available	**K5**
CO6	apply statistical decision theory to make informed decisions	**K6**

Relationship Matrix											
Semester	**Course Code**			**Title of the Course**						**Hours**	**Credits**
1	**23PEC1CC03**			**Core Course - 3:** Statistics for Economists						**6**	**5**
Course Outcomes	**Programme Outcomes (POs)**					**Programme Specific Outcomes (PSOs)**					**Mean Score of COs**
	PO1	**PO2**	**PO3**	**PO4**	**PO5**	**PSO1**	**PSO2**	**PSO3**	**PSO4**	**PSO5**	
CO1	3	3	2	3	2	3	3	2	2	2	**2.5**
CO2	3	3	2	2	2	3	3	2	3	3	**2.6**
CO3	3	1	2	3	2	2	3	2	2	2	**2.2**
CO4	3	2	2	2	1	3	3	2	2	2	**2.2**
CO5	3	3	3	3	2	3	3	2	2	3	**2.7**
CO6	3	2	3	3	2	3	3	2	2	3	**2.6**
										Mean Overall Score	**2.46 (High)**

Semester	Course Code	Title of the Course	Hours/Week	Credits
1	23PEC1ES01	**Elective - 1:** Modern Economic Thought	5	3

Course Objectives
To trace the ideas of Modern Economists
To uunderstand the foundational principles of Classical Economic Thought
To analyze the key aspects of Neo-Classical Economic Thought.
To examine the fundamental tenets of Keynesian Economic Thought
To evaluate the contributions of Indian economists.

UNIT I: Classical Economic Thought **(15 Hours)**

Economic ideas of Irving Fisher -The Quantity theory of Money- Theory of Interest. Joseph Alois Schumpeter - Method of Study -Deductive Method -Inductive Method-Theory of Economic Development- Role of Entrepreneur - Innovation-Business Cycles - Capitalism and Socialism . J.K. Galbraith - The objective of Economic Progress- Concept of Countervailing Power.

UNIT II: Neo Classical Economic Thought **(15 Hours)**

Ragnar Nurske - Foreign Resources - Capital Formation -Disguised Unemployment**,** Mrs- Joan Robinson -Imperfect Competition - F.Y .Edgeworth -Mathematical Economic Analysis -Three Dimensional Utility

UNIT III: Keynesian Economic Thought **(15 Hours)**

Lord Lionel Robbins - Definition of Economics-Causes of Depression -Milton Friedman - Quantity Theory of Money -Permanent Income Hypothesis, Friedman and Savage Hypothesis , Paul A. Samuelson -Impact of Keynesian Economics -Revealed Preference Theory -Business Cycles -Social Welfare Function-Samuelson's Utility Possibility Approach

UNIT IV: Post Keynesian Economic Thoughts **(15 Hours)**

Ideas of Modern Indian Economists-R.K. Mukerjee- Institutional theory of Economics Regional Economics - Ecological Theory of Population -Planning in India, J.K. Mehta - Static and Dynamic Economics -Economics of Welfare -Economics of Growth and Development-Economics of Fast

UNIT V: Indian Economists **(15 Hours)**

C.N. Vakil -Planning- Wage -Goods Model-Role of Technological Progress-Poverty -Deficit Financing and Public Expenditure, V.K.R. V. Rao -Economic Activities -Institutional Development-Deficit Financing-Fiscal Policy-Human Factor in Economic Growth Amartya Kumar Sen - Poverty and Famine, Poverty and Inequality-Concept of Capability Entitlement -Choice of Techniques.

Teaching Methodology	PPTs -Brainstorming method-Written assignment on Current Issues-Preparation of PPTs by the students-Students are encouraged to handle seminar-Students are motivated to do online quizzing through Jostel

Books for Study

1. Kulshrestha, U. C. (1994). *History of economic thought*. Lakshmi Narain Agarwal
2. Sankaran, S. (2006). *A history of economic thought*. Margham Publications

Books for Reference

1. Roll, E. (1956). *A history of economic thought*. Prentice Hall, Inc.
2. Srivastava, P. (2018). *Economic thinkers*. DND Publications.
3. Jhingan, M. L., Girija, M. & Sasikala, L. (2011). *History of economic thought*. Vrindha Publications.

Websites and eLearning Sources

1. https://ebrary.net/112930/history/a_brief_history_of_economic_thought
2. https://www.exploring-economics.org
3. https://www.econlib.org

Course Outcomes		
CO No.	**CO-Statements** On successful completion of this course, the students will be able to	**Cognitive Levels (K-Level)**
CO1	understand modern economic concept of role of Entrepreneur Innovation, Business Cycles and Capitalism and Socialism	**K1**
CO2	ability to understand about Capital Formation, Disguised Unemployment Imperfect Competition and Mathematical Economic Analysis	**K2**
CO3	understand the ideas of Permanent Income Hypothesis, Revealed Preference Theory, Social Welfare Function and Samuelson's Utility Possibility Approach	**K3**
CO4	gain knowledge about the ideas of Modern Indian Economists-Regional Economics, Ecological Theory of Population - Economics of Growth and Development Economics of Fast	**K4**
CO5	understand economic ideas like role of Technological Progress-Poverty -Deficit Financing and Public Expenditure, Human Factor in Economic Growth and Inequality and Concept of Capability	**K5**
CO6	synthesize various economic theories and concepts proposed by classical, neo-classical, Keynesian, and post-Keynesian economists	**K6**

Relationship Matrix											
Semester	**Course Code**			**Title of the Course**					**Hours**		**Credits**
1	**23PEC1ES01**			**Elective - 1:** Modern Economic Thought					**5**		**3**
Course Outcomes	**Programme Outcomes (POs)**					**Programme Specific Outcomes (PSOs)**					**Mean Score of COs**
	PO1	**PO2**	**PO3**	**PO4**	**PO5**	**PSO1**	**PSO2**	**PSO3**	**PSO4**	**PSO5**	
CO1	3	3	2	3	2	3	3	2	2	2	**2.5**
CO2	3	3	2	2	2	3	3	2	3	3	**2.6**
CO3	3	1	2	3	2	2	3	2	2	2	**2.2**
CO4	3	2	2	2	1	3	3	2	2	2	**2.2**
CO5	3	3	3	3	2	3	3	2	2	3	**2.7**
CO6	3	3	3	2	2	3	2	2	3	2	**2.5**
Mean Overall Score											**2.45 (High)**

Semester	Course Code	Title of the Course	Hours/Week	Credits
1	23PEC1ES02	**Elective - 2:** Welfare Economics	5	3

Course Objectives
To understand the core concepts and principles of welfare economics
To compare and contrast cardinal and ordinal approaches in welfare economics
To examine the conditions for Pareto optimality and its application in perfect competition
To analyze the concepts and applications of New Welfare Economics
To Study the theories of social choice

UNIT I: Introduction to Welfare Economics **(15 Hours)**

Welfare Economics: Meaning- Concepts: Individual and Social Welfare- Value Judgments- Preferences and Utility - Utility function: Properties - Interpersonal comparisons of utility: degrees of interpersonal comparability. -Social Welfare Function: -Bentham's Utilitarianism- Pigouvian Welfare Economics.

UNIT II: Approaches to Welfare **(15 Hours)**

Cardinal and Ordinal Approaches- Hicks's Four Measures of Consumers' Surplus- Partial and General Equilibrium- Edgeworth Box Diagram- General Equilibrium of Production and Exchange.

UNIT III: Pareto Optimality Conditions **(15 Hours)**

Pareto-Optimality Criterion -Definition-Marginal Conditions of Pareto Optimum - Perfect Competition and Pareto Optimality- Exceptions -Externalities - Public Goods and Market Failure - Theory of Second Best.

UNIT IV: New Welfare Economics **(15 Hours)**

New Welfare Economics - Kaldor- Hicks Compensation Criterion - Utility Possibility Curve Shortcomings - Scitovsky Paradox - Scitovsky's Double Criterion of Welfare- Little's Criterion.

UNIT V: Theories of Social Choice **(15 Hours)**

Utility Possibility Curve and Frontier Grand Utility Possibility Curve- Iso Welfare Curves Arrow's Impossibility Theorem -Amartya Sen and Capability Theorem - Rawls Theory of Social Justice.

Teaching Methodology	PPTs -Brainstorming method-Written assignment on Current Issues-Preparation of PPTs by the students-Students are encouraged to handle seminar-Students are motivated to do online quizzing through Jostel

Books for Study

1. Verma, K. N. (2012). *Microeconomic theory*. Vishal Publishing House
2. Johannson, P. O. (2009). *An introduction to modern welfare economics*. Cambridge University Press.

Books for Reference

1. Arrow, K. J. (1963). *Social choice and individual values,* (2nd ed.). Cowles Foundation Monograph 12, Yale University.
2. Bossert, W. & Suzumura, K. (2010). *Consistency, choice and rationality.* Harvard University Press.
3. Broadway, R. W. & Bruce, N. (1984). *Welfare economics*. Basil Blackwell.

Websites and eLearning Sources

1. https://conceptually.org/concepts/pareto-principle
2. https://web.stanford.edu/~jdlevin/Econ 202/General Equilibrium.pdf
3. https://policonomics.com/lp-welfare-economics1-general-equilib

Course Outcomes		
CO No.	**CO-Statements** On successful completion of this course, the students will be able to	**Cognitive Levels (K-Level)**
CO1	summarize the Contribution to welfare economics	**K1**
CO2	analyse the different approaches to welfare economics	**K2**
CO3	interpret the development of Pareto Optimality conditions	**K3**
CO4	explain the compensation Criteria of Economics	**K4**
CO5	evaluate and critique the theories of Social Choice.	**K5**
CO6	apply the Pareto optimality criterion to various economic scenarios,	**K6**

Relationship Matrix											
Semester	**Course Code**			**Title of the Course**						**Hours**	**Credits**
1	**23PEC1ES02**			**Elective - 2:** Welfare Economics						**5**	**3**
Course Outcomes	**Programme Outcomes (POs)**					**Programme Specific Outcomes (PSOs)**					**Mean Score of COs**
	PO1	**PO2**	**PO3**	**PO4**	**PO5**	**PSO1**	**PSO2**	**PSO3**	**PSO4**	**PSO5**	
CO1	3	3	2	3	2	3	3	2	2	2	**2.5**
CO2	3	3	2	2	2	3	3	2	3	3	**2.6**
CO3	3	1	2	3	2	2	3	2	2	2	**2.2**
CO4	3	2	2	2	1	3	3	2	2	2	**2.2**
CO5	3	3	3	3	2	3	3	2	2	3	**2.7**
CO6	3	2	3	3	2	2	3	2	2	3	**2.5**
										Mean Overall Score	**2.45 (High)**

Semester	Course Code	Title of the Course	Hours/Week	Credits
1	23PEC1AE01	**Ability Enhancement Course:** Business Management with Tally	2	1

Course Objectives
To understand the nature of a business organization
To explore flexible purchase and sales management
To gain proficiency in inventory management
To familiarize with banking and job work functionalities
To learn to generate and analyze accounting and financial reports

UNIT I: Simple Accounting Management **(6 Hours)**

Pre-Defined accounting groups and flexible chart of accounting - Groups and Ledgers management - Multi Currency support - Post-dated transactions

UNIT II: Flexible purchase and Sales Management **(6 Hours)**

GST complaint invoice - Multiple billing formats - Multiple price list and discount management - multiple mailing address - sales and purchase order processing

UNIT III: Inventory Management **(6 Hours)**

Physical stock Verification - Manufacture and expiry date management - Flexible unit of measurement - Job costing -Reorder level - Multiple stock valuations

UNIT IV: Banking and Job work **(6 Hours)**

Auto Configuration - Cheque book management - Auto Bank reconciliation - Post-dated cheque management - E payment - Job Order and Work Processing

UNIT V: Accounting and Financial Reports **(6 Hours)**

Ledger reports - Cash/Bank Report - Bill receivable and payment - balance sheet - profit and loss A/C - Stock Summery - Stock Transfers - Order Summery

Teaching Methodology	PPTs -Brainstorming method-Written assignment on Current Issues Preparation of PPTs by the students-Students are encouraged to handle seminar-Students are motivated to do online quizzing through Jostel

Books for Study

1. (2020). Tally. ERP 9 with GST in simple steps (Paperback). DT Editorial Services.
2. Agrawal, N. (2019). *Comdex Tally*. ERP 9 course lit. Dreamtech press.

Books for Reference

1. Nadhani, A. K. (2018). *Tall. ERP 9 training guide*. BPB Publications.
2. Gupta, V. (2018). *Comdex Tally. ERP 9 course kit with GST and MS Excel*. Dream tech press.
3. Singh, S. (n.d). *Tally Erp 9*. Vand S Publishers

Websites and eLearning Sources

1. https://tallysolutions.com/learning-hub/
2. https://www.rivereastlibrary.org/Pages/Index/183493/tech-time-online-resources-with-tally
3. https://www.tallysoft.com/wp-content/uploads/2017/07/TallyExplorerManual_v5.1.0.0.pdf

Course Outcomes		
CO No.	**CO-Statements** On successful completion of this course, the students will be able to	**Cognitive Levels (K-Level)**
CO1	learn to create Banking Transactions and E- payment	**K4**
CO2	acquire knowledge about Accounting and Inventory Reports in Tally ERP	**K5**
CO3	generate and interpret a variety of accounting and financial reports	**K6**

Relationship Matrix											
Semester	**Course Code**	**Title of the Course**								**Hours**	**Credits**
1	**23PEC1AE01**	**Ability Enhancement Course:** Business Management with Tally								**2**	**1**
Course Outcomes	**Programme Outcomes (POs)**					**Programme Specific Outcomes (PSOs)**					**Mean Score of COs**
	PO1	**PO2**	**PO3**	**PO4**	**PO5**	**PSO1**	**PSO2**	**PSO3**	**PSO4**	**PSO5**	
CO1	3	1	2	3	2	2	3	2	2	2	**2.2**
CO2	3	2	2	2	1	3	3	2	2	2	**2.2**
CO3	3	3	3	3	2	3	3	2	2	3	**2.7**
										Mean Overall Score	**2.36 (High)**

Semester	Course Code	Title of the Course	Hours/Week	Credits
2	23PEC2CC04	**Core Course - 4:** Public Economics	5	5

Course Objectives
To recall the role and functions of the government in a modern Economy
To discuss the concept of market failure and its remedial measures.
To analyse the concepts and theories of Public Economics
To evaluate the financial relations between Centre, state and local Governments.
To design mock budget.

UNIT I: GOVERNMENT AND THE ECONOMY (15 Hours)

Major economic functions of the economy: Allocation function, Distribution function, Stabilization function - Private Goods, Public foods and Merit goods - Market Failure - Externalities- Informational Asymmetry - Theory of Second Best: Private and public mechanism for allocating resources, Problems in allocation of resources, Problems of Preference revelation and aggregation of preferences, Voting Systems, Arrows Impossibility Theorem.

UNIT II: PUBLIC REVENUE & PUBLIC EXPENDITURE (15 Hours)

Concepts: Public Revenue- Sources- Benefit theory and Ability to pay approaches -Theory of optimal taxation; Excess burden of taxes; Trade-off between equity and efficiency. Theory of incidence; Alternative concepts of incidence-Allocative and equity aspects - Public Expenditure: Wagner's law of increasing state activities; Wiseman-Peacock- hypothesis; Pure theory of public expenditure; Structure and growth of public expenditure; Social Cost-benefit Analysis.

UNIT III: PUBLIC DEBT, BUDGET AND FISCAL POLICY (15 Hours)

Classical view of public debt- Compensatory aspect of debt policy;-Burden of public debt -Sources of public debt; Public borrowings and price level; Crowding out of private investment and activity- Principles of debt management and repayment- Fiscal policy: objectives of fiscal policy- Interdependence of fiscal and monetary policies - concepts of Budget- Budgetary deficits and its implications; Fiscal policy for stabilization - automatic vs. discretionary stabilization.

UNIT IV: FISCAL FEDERALISM (15 Hours)

Meaning and Importance of Federal Finance-Principles of multi-unit finance; Fiscal federalism in India; Vertical and horizontal imbalance- Functions of Finance Commission-Assignment of functions and sources of revenue, Constitutional provisions- Recent Finance Commission, Resources transfer from Union to States and Local bodies - Criteria for transfer of Resources; Centre-state financial relations in India - Local Finances: Functions and Revenues

UNIT V: Indian Public Finance (15 Hours)

Indian tax system; Revenue of the Union, States and Local bodies; Major taxes in India: base of taxes, direct and indirect taxes, Reforms in direct and indirect taxes, taxes on services - GST; Non-tax revenue of Centre, State and Local bodies; Trends in Public expenditure and public debt; Fiscal crisis and fiscal sector reforms in India.

Teaching Methodology	• Brainstorming method • PPTs, ICT • Written assignment on Current Issues • Preparation of PPTs by the students • Students are encouraged to handle seminar • Students are motivated to do online quizzing through Jostel

Books for Study

1. Singh, S. K., (2014). *Public Finance Theory and Practice*. S. Chand & Co. Ltd.
2. Tyagi, B. P. (2012). *Public Finance.* Jai Prakash Nath.

Books for Reference

1. *Reports of various finance commissions.*
2. Kennedy, M. M. J. (2012). *Public Finance*. PHI Learning Pvt. Ltd.
3. Jha, R. (1998). *Modern Public Economics.* Routledge.
4. Musgrave, R. A., & Musgrave, P. B. (1976). *Public Finance in Theory and Practice*. McGraw-Hill.
5. Spulber, N. (1998). *Redefining the State*. Cambridge University Press.
6. Buchanan, J. M. (1968). *The Demand and Supply of Public Goods*. R and McNally.
7. Peacock, A., & Robertson, D. J. (Eds). (1963). *Public Expenditure: Appraisal and Control.*
8. Gulati, I. S. (1979). *Centre State Financial Relations: An Assessment of the Role of Finance Commission.* M.S. University of Baroda.

Websites and eLearning Sources

1. https://www.india.gov.in/my-government/documents/policy
2. http://www.niti.gov.in
3. https://www.indiabudget.gov.in/

Course Outcomes		
CO No.	**CO-Statements** On the successful completion of this course, the students will be able to	**Cognitive Levels (K - Level)**
CO1	recall the role and functions of the government in a modern Economy	**K1**
CO2	discuss the concept of market failure and its remedial measures.	**K2**
CO3	apply monetary and fiscal measures to stabilize the economy.	**K3**
CO4	analyse the concepts and theories of Public Economics.	**K4**
CO5	evaluate the financial relations between Centre, state and local Governments.	**K5**
CO6	design mock budget.	**K6**

Relationship Matrix											
Semester	**Course Code**			**Title of the Course**						**Hours**	**Credits**
2	**23PEC2CC04**			**Core Course - 4:** Public Economics						**5**	**5**
Course Outcomes	**Programme Outcomes (POs)**					**Programme Specific Outcomes (PSOs)**					**Mean Score of COs**
	PO1	**PO2**	**PO3**	**PO4**	**PO5**	**PSO1**	**PSO2**	**PSO3**	**PSO4**	**PSO5**	
CO1	3	2	2	2	2	3	3	2	2	2	**2.3**
CO2	2	3	2	2	3	2	2	2	2	2	**2.2**
CO3	2	2	2	2	2	3	2	2	2	2	**2.1**
CO4	3	2	2	2	2	3	3	2	2	1	**2.2**
CO5	2	2	2	2	2	3	3	2	2	2	**2.2**
CO6	3	2	3	2	2	3	2	2	3	2	**2.4**
									Mean Overall Score		**2.6 (High)**

Semester	Course Code	Title of the Course	Hours/Week	Credits
2	23PEC2CC05	**Core Course - 5:** Mathematics for Economists	6	5

Course Objectives
To understand and apply the fundamental concepts of analytical geometry.
To become proficient in concepts related to functions, limits, continuity, and derivatives.
To learn the rules of partial differentiation and develop the ability to interpret partial derivatives.
To grasp the rules of integration and apply them to calculate total cost and total revenue
To become familiar with different types of matrices and perform basic matrix operations.

UNIT I: Analytical Geometry **(18 Hours)**

Straight lines - Slope Intercept form- Slope point form - Two point form - intercepts form - General form - Application of Linear Equations in Economics - quadratic equations and solution - applications - Demand and Supply curves - Determination of equilibrium price and quantity.

UNIT II: Differentiation **(18 Hours)**

Concept of function and types of functions: Limit, continuity and derivative- Rules of differentiation- interpretation of revenue, cost, demand and supply functions, Elasticity and their types, Problems in maxima and minima and optimization of firm.

UNIT III: Partial Differentiation **(18 Hours)**

Rules of partial differentiation and interpretation of partial derivatives - Maxima and Minima, constrained optimization in simple economic problems.

UNIT IV: Integration **(18 Hours)**

Simple rules of integration - Application in Total Cost and Total Revenue, definite integral - Application in consumer surplus and producer surplus (marginal cost and marginal revenue).

UNIT V: Matrix **(18 Hours)**

Matrix: Types, simple operations in matrices - Addition - Subtraction and Multiplication - Transpose of Matrix and rank of a matrix - Determinant and their basic properties - solution of simultaneous equations through Cramer's rule and Inverse method - Applications of Matrices and determinants in Business and Economics.

Teaching Methodology	• PPTs • ICT • Brainstorming method • Written assignment on Current Issues • Preparation of PPTs by the students • Students are encouraged to handle seminar • Students are motivated to do online quizzing through Jostel

Book for Study

1. Aggarwal, S. C., Rana, R. K., & Leena, G. (2020). *Mathematics for Economists.* VK Global Publications Pvt Ltd.

Books for Reference

1. Allen, R. G. D. (2008). *Mathematical Analysis for Economics*. Macmillan.
2. Chiang, A. C., & Wainwright, K. (2005). *Fundamental Methods of Mathematical Economics.* McGraw Hill.
3. Weber, J. E. (1976). *Mathematical Analysis - Business and Economic Applications.* Harper & Row.

4. Joshi, R. C., Agarwal, C. S. (2017). *Mathematics for Students of Economics.* New Academic Publishing Co.

Websites and eLearning Sources

1. https://www.udemy.com/course/mathematics-for-economists-functions-and-derivatives/
2. https://www.classcentral.com/course/swayam-mathematical-economics-14187
3. https://www.coursera.org/learn/introduction-to-calculus

Course Outcomes		
CO No.	**CO-Statements** On the successful completion of this Course, the students will be able to	**Cognitive Levels (K - Level)**
CO1	describe and apply various forms of linear equations in analytical geometry	**K1**
CO2	interpret the economic significance of linear equations in demand and supply analysis.	**K2**
CO3	apply the rules of differentiation to analyze economic functions such as cost, revenue, and demand.	**K3**
CO4	analyze economic problems involving maxima and minima using differentiation and partial differentiation.	**K4**
CO5	develop and solve economic optimization problems using differentiation and partial differentiation	**K5**
CO6	evaluate the appropriateness of various mathematical techniques in solving real-world economic problems.	**K6**

Relationship Matrix											
Semester	**Course Code**			**Title of the Course**						**Hours**	**Credits**
2	**23PEC2CC05**			**Core Course - 5:** Mathematics for Economists						**6**	**5**
Course Outcomes	**Programme Outcomes (POs)**					**Programme Specific Outcomes (PSOs)**					**Mean Score of COs**
	PO1	**PO2**	**PO3**	**PO4**	**PO5**	**PSO1**	**PSO2**	**PSO3**	**PSO4**	**PSO5**	
CO1	2	3	3	3	1	1	2	3	2	3	**2.3**
CO2	3	2	2	3	1	1	3	3	2	2	**2.2**
CO3	3	3	3	3	2	1	2	3	2	1	**2.3**
CO4	3	3	2	3	1	3	3	2	2	1	**2.3**
CO5	3	3	2	2	1	2	3	2	3	3	**2.4**
CO6	3	3	2	2	1	2	3	2	3	3	**2.4**
										Mean Overall Score	**2.3 (High)**

Semester	Course Code	Title of the Course	Hours/Week	Credits
2	23PEC2CC06	**Core Course - 6:** Macroeconomic Process	6	5

Course Objectives
To know the concepts and measurement of calculating National Income
To understand the various theories used in Macroeconomics for national development.
To describe the circular flow of Income in various sectors.
To assess the Various Fluctuations in Business.
To compile the ratio of investment through multiplier and accelerator in economics.

UNIT I: National Income and Social Accounting **(18 Hours)**

Circular Flow of income in Two, Three and Four sector economy - Different forms of National Income Accounting - Social accounting, Input - output accounting, Flow of funds accounting and Balance of Payment Accounting - uses of National Income Analysis.

UNIT II: Consumption Function **(18 Hours)**

Keynes Psychological Law of Consumption - implications of the Law, short run and long - run consumption function - Empirical evidence on Consumption function, Income - consumption relationship - Absolute Income, Relative Income, Permanent Income and Life cycle Hypotheses.

UNIT III: Investment Function **(18 Hours)**

Marginal Efficiency of Investment and level of investment, Marginal Efficiency of Capital and Investments - long - run and short - run - Multiplier – Accelerator – Super Multiplier.

UNIT IV: IS-LM **(18 Hours)**

Investment - Saving (IS) - Liquidity and Money Supply (LM) - Factors determines the savings and investment - J.M. Keynes model of IS -LM - pros and cons of IS-LM model.

UNIT V: Business Cycles **(18 Hours)**

Phases of Business Cycle - Theories of Trade cycle Samuelson, Kaldor, Schumpeter and Hicks.

Teaching Methodology	• PPTs • ICT • Brainstorming method • Written assignment on Current Issues • Preparation of PPTs by the students • Students are encouraged to handle seminar • Students are motivated to do online quizzing through Jostel

Books for Study

1. Gupta, R. D., & Lekhi, R. K. (2013). *Keynes and Post Keynesian Economics*. Kalyani Publisher.
2. Ackley, G. (2008). *Macro Economics Theory and Policy (Revised Edition).* Macmillan.

Books for Reference

1. Eden, M., & Peacock, A. T. (1967). *National Income and Social Accounts*. Hutchinson University.
2. Keynes, J. M. (1936). *The General Theory of Employment Interest and Money.* Macmillan.
3. Gurley, J., & Shaw, E. S. (1960). *Money in a Theory of Finance.* Brookings Institutions.

Websites and eLearning Sources

1. https://tradingeconomics.com
2. https://www.bu.edu/econ/files/2014/08/DLS1.pdf
3. https://www.imf.org
4. https://www.aeaweb.org/resources/students
5. https://www.worldbank.org/en/topic/macroeconomics

Course Outcomes		
CO No.	**CO-Statements** On successful completion of this course, students will be able to	**Cognitive Levels (K - Level)**
CO1	state the concepts and measurement of calculating National Income	**K1**
CO2	understand the various theories used in Macroeconomics for national development.	**K2**
CO3	describe the circular flow of Income in various sectors.	**K3**
CO4	assess the Various Fluctuations in Business.	**K4**
CO5	compile the ratio of investment through multiplier and accelerator in economics.	**K5**
CO6	evaluate the various of trade cycle in macroeconomic terms	**K6**

Relationship Matrix											
Semester	**Course Code**	**Title of the Course**					**Hours**				**Credits**
2	**23PEC2CC06**	**Core Course - 6:** Macroeconomic Process					**6**				**5**
Course Outcomes	**Programme Outcomes (POs)**					**Programme Specific Outcomes (PSOs)**					**Mean Score of COs**
	PO1	**PO2**	**PO3**	**PO4**	**PO5**	**PSO1**	**PSO2**	**PSO3**	**PSO4**	**PSO5**	
CO1	2	2	2	1	2	3	1	3	2	1	**1.9**
CO2	2	1	3	2	1	2	3	3	2	3	**2.2**
CO3	2	2	3	2	2	3	3	3	3	2	**2.5**
CO4	3	3	2	2	3	2	2	2	2	3	**2.4**
CO5	2	2	2	2	2	2	2	3	2	2	**2.1**
CO6	2	3	2	2	2	3	2	2	3	3	**2.3**
										Mean Overall Score	**2.23 (High)**

Semester	Course Code	Title of the Course	Hours/Week	Credits
2	23PEC2SP01	**Self-paced Learning:** Economics of Tourism	-	2

Course Objectives
To describe the significance of Tourism Management and its promotion
To discuss the various elements of tourism marketing
To interpret the important Tourism Organizations in the global market.
To analyse the social, economic, cultural and political impacts of tourism development.
To evaluate tourism services and recent trends in internal and international tourism.

UNIT I: Basic Concepts of Tourism

Meaning- Definition - Concepts and Types of Tourism - Tourism and economic development - Importance of tourism - Sustainable Tourism.

UNIT II: Tourism Product and Tourism Marketing

Tourism products: Attractions, Availability, Accessibility and Amenities - Tourism Marketing - Various types of tourism marketing in India - Impact of Information Technology in tourism development.

UNIT III: Tourism Services

Hotels - Motels - Resorts - Boating Clubs - Conducted /Organized Tours - Package Tour - Insurance - Guides - Tour Operators - Tour Promoters - Medical Tourism - Medical Tourism in India.

UNIT IV: Performance of Tourism

Tourism status in global and national -Socio, Economic, Cultural and Political Impacts of tourism development in India - Programmes in Tourism Development - Infrastructure Development Programme - Regional Toursim.

UNIT V: Tourism Organizations

Role and Functions: United Nations World Tourism Organizations (WTO), Pacific Asia Travel Association (PATA), World Tourism and Travel Council (WTTC), International Hotel Association (IHA), Ministry of Tourism, Government of India, Indian Tourism Development Corporation (ITDC) and Federation of Hotel and Restaurants Association of India (FHRAI).

Teaching Methodology	Online, Self- Paced, LMS- JOSTEL

Books for Study

1. Swain, S. K., & Mishra, J. M. (2012). *Tourism Principles and Practices.* Oxford University Press.
2. Bhatia, A. K. (2002). *International Tourism Management*. Sterling Publishers.

Books for Reference

1. Ghosh, B., (1998). *Tourism and Travel Management.* Vikas.
2. Shankar, A. K. (1998). *Action Plan and Priorities in Tourism Development*. Kanishka.
3. Vinukumar, S., & Chandrasekhar, K. S. (2004). *Sustainable Development and Tourism.*
4. Kumar, S. N. (1996). *Problems of Tourism in India - Tourism and Economic Development.* APH.

Websites and eLearning Sources

1. https://www.unwto.org/
2. https://itdc.co.in/
3. https://tourism.gov.in/
4. https://www.traveldailymedia.com/importance-of-travel-website-for-the-travel-company/
5. https://www.oecd.org/cfe/tourism/

Course Outcomes		
CO No.	**CO-Statements** On successful completion of this course, students will be able to	**Cognitive Levels (K - Level)**
CO1	describe the significance of Tourism Management and its promotion	**K1**
CO2	discuss the various elements of tourism marketing	**K2**
CO3	interpret the important Tourism Organizations in the global market.	**K3**
CO4	analyse the social, economic, cultural and political impacts of tourism development.	**K4**
CO5	evaluate the recent growth in Indian Tourism	**K5**
CO6	plan for tourism services and recent trends in domestic and international tourism.	**K6**

Relationship Matrix											
Semester	**Course Code**			**Title of the Course**				**Hours**			**Credits**
2	**23PEC2SP01**			**Self-paced Learning:** Economics of Tourism				**-**			**2**
Course Outcomes	**Programme Outcomes (POs)**					**Programme Specific Outcomes (PSOs)**					**Mean Score of COs**
	PO1	**PO2**	**PO3**	**PO4**	**PO5**	**PSO1**	**PSO2**	**PSO3**	**PSO4**	**PSO5**	
CO1	3	2	2	1	2	3	2	3	2	2	**2.2**
CO2	2	3	2	2	2	2	3	3	2	2	**2.3**
CO3	2	2	2	3	2	3	2	2	2	2	**2.2**
CO4	1	3	2	2	2	2	3	2	2	2	**2.2**
CO5	2	3	2	2	3	3	2	3	2	2	**2.4**
CO6	2	1	3	2	2	3	2	3	2	2	**2.2**
										Mean Overall Score	**2.3 (High)**

Semester	Course Code	Title of the Course	Hours/Week	Credits
2	23PEC2ES03A	**Elective - 3:** Agricultural Economics	5	4

Course Objectives
To understand the basic concepts of Aagriculture and Economic Development
To illustrate the types of cropping pattern and types of farming
To analyse the Role and functions of Agricultural marketing
To assess the sources of agricultural finance and its role.
To impart students to develop the knowledge of agricultural policy and its reforms
To build the new ideas through Sustainable agriculture and mechanization of agriculture

UNIT I: Agriculture and Economic Development **(15 Hours)**

Agriculture: Scope and Significance of Agriculture - Agriculture and Industry - A Comparison- Productivity Trends; Low production and Productivity: Causes, Consequences and Measures - Role of Agriculture in India's Development- Major Challenges.

UNIT II: Cropping Pattern and Agricultural Labour **(15 Hours)**

Meaning - importance and types of cropping pattern - Crop rotation -Types of farming - Inputs of Agricultural produce - Irrigation: importance, types and sources of irrigation. Agricultural Labour: Types - Problems- Minimum wages for agricultural workers and Self-Employment Programmes.

UNIT III: Agricultural Marketing **(15 Hours)**

Agricultural marketing- Role and functions - Defects of Agricultural marketing - measures to improve agricultural marketing- Regulated markets-Procurement-Buffer stock operations-Co-operative marketing - Uzavarshanthai (Farmer's Market)- MSP (Minimum Support Price).

UNIT IV: Agricultural Finance **(15 Hours)**

Agricultural Finance: Meaning- Types-Sources: Institutional- Co-operatives- RRBs-Role of Commercial Banks and NABARD in agricultural finance - Non-Institutional: Money lender- Kisan Credit Cards- Problems of Agricultural Finance- Principles of agricultural financial management.

UNIT V: Agricultural Policy **(15 Hours)**

Agricultural Price policy - Objectives, instruments and impact- Economic Reforms and New Agricultural policy - WTO and Indian Agriculture-Sustainable agriculture - Mechanization of agriculture -Green revolution and its impact- Agricultural Taxation and its relevance.

Teaching Methodology	• PPTs • ICT • Brainstorming method • Written assignment on Current Issues • Preparation of PPTs by the students • Students are encouraged to handle seminar • Students are motivated to do online quizzing through Jostel

Book for Study

1. Sanjay. (2018). *Competitive Agricultural Economics*, (1st Ed.). Vishal Publications.

Books for Reference

1. Datt & Sundharam's. (2021). *Indian Economy,* (72nd Ed.). Sultan & Chand Private Ltd.
2. Dhingra, I.C. *Indian Economy:* (8th Ed.). Heed Publication PVT. Ltd.,
3. Nitin, S. (2022). *Indian Economy,* (2nd Ed.). McGraw-Hill Education.
4. Subba, R.S. *Agricultural Economics,* (2nd *Ed.).* Oxford & IBH Publishing Co-Private Ltd.

Websites and eLearning Sources

1. http://www.rvskvv.net › images › Principles-of-Agri...
2. https://zalamsyah.files.wordpress.com › 2018/02 › 2...

3. http://archive.mu.ac.in › myweb_test › M.A. PAR...

Course Outcomes		
CO No.	**CO-Statements** On successful completion of this course, students will be able to	**Cognitive Levels (K - Level)**
CO1	examine role of Agriculture in India's Development.	**K1**
CO2	understand the significance of cropping pattern in agricultural economics	**K2**
CO3	interpret the importance of Farmer's market and MSP	**K3**
CO4	analyse the various channels of marketing of agricultural produce	**K4**
CO5	assess the sources of agricultural finance and its role.	**K5**
CO6	develop the knowledge of agricultural policy and its reforms	**K6**

Relationship Matrix											
Semester	**Course Code**			**Title of the Course**					**Hours**		**Credits**
2	**23PEC2ES03A**			**Elective - 3:** Agricultural Economics					**5**		**4**
Course Outcomes	**Programme Outcomes (POs)**					**Programme Specific Outcomes (PSOs)**					**Mean Scores of COs**
	PO1	**PO2**	**PO3**	**PO4**	**PO5**	**PSO1**	**PSO2**	**PSO3**	**PSO4**	**PSO5**	
CO1	3	3	3	2	1	3	2	3	2	3	**2.5**
CO2	2	3	3	2	2	2	3	2	1	3	**2.3**
CO3	3	2	3	2	2	3	2	2	2	2	**2.3**
CO4	3	3	2	2	2	3	3	3	2	3	**2.6**
CO5	2	3	3	2	1	3	3	2	2	3	**2.4**
CO6	2	3	3	2	1	3	3	2	2	3	**2.4**
									Mean Overall Score		**2.42 (High)**

Semester	Course Code	Title of the Course	Hours/Week	Credits
2	23PEC2ES03B	**Elective - 3:** Behavioural Economics	5	4

Course Objectives
To describe the concepts of Behavioral Economics
To discuss the individual decision-making of economic agents
To use Behavioural Insights in Policy Making.
To analyse the importance of Inter-temporal choice
To evaluate consumption pattern for an individual
To develop the Strategic Thinking Choice of Architecture

UNIT I: Introduction to Behavioural Economics **(15 Hours)**

Nature of Behavioural economics - Methodological approach - Origins of behavioral economics - Neo - classical and behavioral approaches to studying economics: rationality, optimization, role of Intuition, Emotions, Beliefs in decision making.

UNIT II: Concepts of Behavioural Economics **(15 Hours)**

Values: Preferences and Choices - Beliefs: Heuristics and Biases - Decision making under risk and uncertainty- Decision weighting - Mental accounting.

UNIT III: Inter-Temporal Behaviour **(15 Hours)**

Inter-temporal Choice - Temporal Choice - Valuation of Delayed Consumption Preferences for Sequences of Outcomes - Hyperbolic Discounting - Preference Reversal.

UNIT IV: Markets and Behavioural Approaches **(15 Hours)**

Awareness and the willingness as Deciding Drivers of Behavioural Change - Decision making and Behavioural Factors - Understanding consumer decision - making and using behavioural insights - Improving Consumer Outcomes - Use of Behavioural Insights in Policy Making.

UNIT V: Strategic Interaction **(15 Hours)**

Nature of behavioral game theory, mixed strategies, Bargaining - Social Preferences: Altruism, envy, fairness and justice - Intentions, reciprocity and trust- Limited Strategic Thinking Choice architecture - Nudge, Nudge vs. boost, Behavioural public policy.

Teaching Methodology	• PPTs • ICT • Brainstorming method • Written assignment on Current Issues • Preparation of PPTs by the students • Students are encouraged to handle seminar • Students are motivated to do online quizzing through Jostel

Books for Study

1. Angner, E. (2016). *A Course in Behavioural Economics.* Palgrave Macmillan.
2. Ogaki, M., & Tanaka, S. C. (2017). *Behavioural Economics Toward a New Economics by Integration with Traditional Economics.* Springer Text in Business and Economics (e-book). Springer Nature Singapore Pvt Ltd.

Books for Reference

1. Rajko, A., Rutledge. (2012). *Behaviour Economics and Business Ethics: Interrelation and Application.* London.
2. Huck, S. (2004). *Advances in Understanding Strategic Behaviour: Game Theory Experiments and Bounded Rationality.*
3. Brunnermeier, M. K., & Parker, J. A. (2005). Optimal Expectations. *American Economic Review.* 95(4):1092-1118.

4. Sydnor, J. (2010). (Over) insuring Modest Risks. *American Economic Journal: Applied Economics*. 2(4): 177-99

Course Outcomes		
CO No.	**CO-Statements** On successful completion of this course, students will be able to	**Cognitive Levels (K - Level)**
CO1	describe the concepts of Behavioral Economics	**K1**
CO2	discuss the individual decision-making of economic agents	**K2**
CO3	use Behavioural Insights in Policy Making	**K3**
CO4	analyse the importance of Inter-temporal choice	**K4**
CO5	evaluate consumption pattern for an individual	**K5**
CO6	develop the Strategic Thinking Choice of Architecture	**K6**

Relationship Matrix											
Semester	**Course Code**			**Title of the Course**				**Hours**			**Credits**
2	**23PEC2ES03B**			**Elective - 3:** Behavioural Economics				**5**			**4**
Course Outcomes	**Programme Outcomes (POs)**					**Programme Specific Outcomes (PSOs)**					**Mean Score of COs**
	PO1	**PO2**	**PO3**	**PO4**	**PO5**	**PSO1**	**PSO2**	**PSO3**	**PSO4**	**PSO5**	
CO1	2	2	1	3	2	3	2	2	2	3	**2.2**
CO2	2	3	2	1	2	3	3	2	2	2	**2.2**
CO3	1	2	2	3	2	2	2	3	2	2	**2.1**
CO4	1	3	2	2	3	3	2	2	2	2	**2.2**
CO5	1	2	3	2	2	2	3	2	3	3	**2.3**
CO6	2	2	1	2	3	2	3	2	2	2	**2.1**
									Mean Overall Score		**2.2 (High)**

Semester	Course Code	Title of the Course	Hours/Week	Credits
2	23PSS2SE01	**Skill Enhancement Course:** Soft Skills	4	3

Course Objectives
To provide a focused training on soft skills for students in colleges for better job prospects
To communicate effectively and professionally
To help the students take active part in group dynamics
To familiarize students with numeracy skills for quick problem solving
To make the students appraise themselves and assess others

Unit I: Effective Communication & Professional Communication **(12 Hours)**

Definition of communication, Barriers of Communication, Non-verbal Communication; Effective Communication - Conversation Techniques, Good manners and Etiquettes; Speech Preparations & Presentations; Professional Communication.

Unit II: Resume Writing & Interview Skills **(12 Hours)**

Resume Writing: What is a résumé? Types of résumés, - Chronological, Functional and Mixed Resume, Purpose and Structure of a Resume, Model Resume.

Interview Skills: Types of Interviews, Preparation for an interview, Attire, Body Language, Common interview questions, Mock interviews & Practicum

Unit III: Group Discussion & Personal effectiveness **(12 Hours)**

Basics of Group Discussion, Parameters of GD, Topics for Practice, Mock GD & Practicum & Team Building.

Personal Effectiveness: Self Discovery; Goal Setting with questionnaires & Exercises

Unit IV: Numerical Ability **(12 Hours)**

Introducing concepts Average, Percentage; Profit and Loss, Simple Interest, Compound Interest; Time and Work, Pipes and Cisterns.

Unit V: Test of Reasoning **(12 Hours)**

Introducing Verbal Reasoning: Series Completion, Analogy; Data Sufficiency, Assertion and Reasoning; and Logical Deduction. Non-Verbal Reasoning: Series; and Classification

Teaching Methodology	Chalk and talk, Lectures, Demonstrations, PPT.

Book for study

1. Melchias G., Balaiah, J. & Joy, J. L. (Eds). (2018). *Winner in the Making: A Primer on soft Skills.* Trichy, India: St. Joseph's College.

Books for Reference

1. Aggarwal, R. S. (2010). *A Modern Approach to Verbal and Non-Verbal Reasoning.* S. Chand.
2. Covey, S. (2004). *7 Habits of Highly effective people.* Free Press.
3. Gerard, E. (1994). *The Skilled Helper* (5th Ed.). Brooks/Cole.
4. Khera, S. (2003). *You Can Win.* Macmillan Books.
5. Murphy, R. (1998). *Essential English Grammar,* (2nd Ed.). Cambridge University Press.
6. Sankaran, K., & Kumar, M. (2010). *Group Discussion and Public Speaking* (5th Ed.). M.I. Publications.
7. Trishna, K. S. (2012). *How to do well in GDs & Interviews*? (3rd Ed.). Pearson Education.
8. Yate, M. (2005). *Hiring the Best: A Manager's Guide to Effective Interviewing and Recruiting*

Course Outcomes		
CO No.	**CO-Statements** On successful completion of this course, students will be able to	**Cognitive Levels (K - Level)**
CO1	recall various soft skill sets	**K1**
CO2	understand personal effectiveness in any managerial positions	**K2**
CO3	apply verbal and non-verbal reasoning skills to solve problems	**K3**
CO4	differentiate problems at work and home; and design solutions to maintain work-life balance	**K4**
CO5	assess growth and sustainability and infuse creativity in employment that increases professional productivity	**K5**
CO6	construct plans and strategies to work for better human society	**K6**

Relationship Matrix											
Semester	**Course Code**			**Title of the Course**					**Hours**		**Credits**
2	**23PSS2SE01**			**Skill Enhancement Course:** Soft Skills					**4**		**3**
Course Outcomes	**Programme Outcomes (POs)**					**Programme Specific Outcomes (PSOs)**					**Mean Scores of COs**
	PO1	**PO2**	**PO3**	**PO4**	**PO5**	**PSO1**	**PSO2**	**PSO3**	**PSO4**	**PSO5**	
CO1	3	3	3	3	2	3	2	3	2	3	**2.7**
CO2	3	3	3	2	3	3	3	3	3	3	**2.9**
CO3	3	2	2	3	3	3	3	3	3	3	**2.8**
CO4	3	3	2	2	3	3	3	3	3	3	**2.8**
CO5	3	3	3	2	2	3	3	3	3	3	**2.8**
CO6	3	3	3	2	2	3	3	3	3	3	**2.8**
										Mean Overall Score	**2.8 (High)**

Semester	Course Code	Title of the Course	Hours/Week	Credits
3	23PEC3CC07	**Core Course - 7:** Economics of Growth and Development	7	7

Course Objectives
To understand and Define Economic Growth and Development.
To analyze Indicators and Factors Affecting Growth and Development.
To explore Economic Growth Models.
To examine Theories of Economic Development.
To understand Capital Formation, Human Capital, FDI, and MNCs.

UNIT I: Concepts of Economic Growth and Economic Development (21 Hours)

Concepts and definitions of Economic growth and development; Growth versus Development indicators of Economic Growth and Economic Development - Factors affecting Economic Growth; Characteristic features of Underdeveloped Countries.

UNIT II: Growth Models (21 Hours)

The Classical Harrod - Domar Model; Neo - Classical Solow Model of Long - run Growth; Cambridge Joan Robinson Model of Capital Accumulation; Kaldor Model of Growth.

UNIT III: Theories of Economic Development (21 Hours)

Karl Marx's theory of social change, surplus value, profit and capitalist crisis; Leibenstein's Critical Minimum Effort Thesis; Hirschman's Theory of Unbalanced Growth;Gerschenkron's Great Spurt Theory; Myrdal's Theory of Circular Causation.

UNIT IV: Capital formation and Human capital (21 Hours)

Importance of Capital Formation; Role of Agriculture and Industry in economic development; Monetary Policy in Economic Development; Fiscal Policy in Economic Development; Population growth and its effects on Economic Development; Human Capital Formation and its role in economic development.

UNIT V: FDI and MNCs (21 Hours)

Importance of Foreign Trade in economic development - FDI, FII: role and importance, Debt crisis and its causes; Role of Foreign Capital and Aid in economic development; MNCs - role and contribution to economic development.

Teaching Methodology	Chalk and Talk

Books for Study

Books for Reference

Course Outcomes		
CO No.	**CO-Statements** On successful completion of this course, students will be able to	**Cognitive Levels (K-Level)**
CO1	match the features of underdeveloped countries with the domestic and international aspects of economic growth and development.	**K1**
CO2	interpret theoretical and empirical knowledge using the indicators of economic growth and development in modern times.	**K2**
CO3	explain the current policies, problems and issues in human resource development.	**K3**
CO4	assess the role and contribution of foreign trade, foreign aid and grants and MNCs in the development of the host nation.	**K4**
CO5	adapt subject knowledge into employment oriented ideas for enhancing entrepreneurial ability with ethical values.	**K5**
CO6	formulate the various policy measures for Economic growth and development.	**K6**

Relationship Matrix											
Semester	**Course code**	**Title of the Course**								**Hours**	**Credits**
3	**23PEC3CC07**	**Core Course - 7:** Economics of Growth and Development								**7**	**7**
Course Outcomes	**Programme Outcomes (Pos)**					**Programme Specific Outcomes (PSOs)**					**Mean Score of COs**
	PO1	**PO2**	**PO3**	**PO4**	**PO5**	**PSO1**	**PSO2**	**PSO3**	**PSO4**	**PSO5**	
CO1	2	3	3	1	2	3	3	3	3	1	**2.4**
CO2	3	3	3	1	3	3	3	3	3	2	**2.7**
CO3	3	3	3	2	2	3	3	2	3	3	**2.7**
CO4	2	3	3	2	3	3	3	2	3	2	**2.6**
CO5	3	3	3	3	3	2	3	2	3	3	**2.8**
CO6	3	3	3	3	3	2	3	3	2	3	**2.8**
										Mean Overall Score	**2.66 (High)**

Semester	Course Code	Title of the Course	Hours/Week	Credits
3	23PEC3CC08	**Core Course - 8:** Monetary Economics	7	7

Course Objectives
The course is devoted to the main issues in modern monetary economics.
The factors behind money demand and supply are studied through the set of comprehensive monetary models.
Students will examine the factors influencing money money supply and interest rate.
Students will gain an in-depth understanding the functions of both money and capital markets.
Students will explore the functions of both commercial banks and central bank.

UNIT I: Demand for Money **(21 Hours)**

Quantity theories of money - Fisher and Cambridge- Keynesian monetary theory- James Tobin's portfolio analysis of money demand- Don Patinkin`s Integration- Real Balance Effect- Milton Friedman's reformulated quantity theory.

UNIT II: Supply of Money **(21 Hours)**

Supply of Money - Types and determinants of money supply - money multiplier- Theories of interest rate -Classical - Keynes - Hicks.

UNIT III: Money and Capital Market **(21 Hours)**

Money and Capital Market Significance and functions of Money market and capital market- Role of financial intermediaries - Effects of financial intermediation- Non-banking financial institutions Gurley and Shaw theory.

UNIT IV: Banking and its functions **(21 Hours)**

Banking Functions of Commercial banks - Credit creation - process and limitations Role of Commercial banks after nationalization - Role of RBI - Regulation of money supply and credit- Narasimham Committee Reports- 1991 and 1998- Raguram Rajan Committee Report -2007.

UNIT V: Monetary Policies **(21 Hours)**

Monetary Policy Objectives and Instruments of Monetary policy- Limitations of monetary policy Monetarism and Keynesianism - Comparison - Supply side policies.

Teaching Methodology	Chalk and Talk

Books for Study

Books for Reference

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Websites and eLearning Sources

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Course Outcomes		
CO No.	**CO-Statements**	**Cognitive Levels**
	On Completion of this course, the students will be able	

		(K-Level)
CO1	list out and outline the theories of money.	**K1**
CO2	explain construct and distinguish various determinate of money supply and multiplier.	**K2**
CO3	label, explain and evaluate the capital market.	**K3**
CO4	define, illustrate and importance of banking sector.	**K4**
CO5	interpret and make use of monetary policy.	**K5**
CO6	analyze and recommend monetary policy actions based on their understanding of monetary economics	**K6**

Relationship Matrix											
Semester	**Course Code**			**Title of the Course**					**Hours**		**Credits**
3	**23PEC3CC08**			**Core Course - 8:** Monetary Economics					**7**		**7**
Course Outcomes	**Programme Outcomes (POs)**					**Programme Specific Outcomes (PSOs)**					**Mean Score of COs**
	PO1	**PO2**	**PO3**	**PO4**	**PO5**	**PSO1**	**PSO2**	**PSO3**	**PSO4**	**PSO5**	
CO1	3	3	2	2	1	2	3	2	3	3	**2.4**
CO2	2	2	2	2	1	3	3	2	2	3	**2.2**
CO3	1	3	2	2	1	3	3	2	3	2	**2.2**
CO4	3	3	2	1	1	3	3	3	2	2	**2.3**
CO5	3	3	1	2	1	3	3	3	3	2	**2.4**
CO6	3	3	3	3	3	3	3	3	3	3	**3.0**
										Mean Overall Score	**2.41 (High)**

Semester	Course Code	Title of the Course	Hours/Week	Credits
3	23PEC3CC09	**Core Course - 9:** Econometrics	7	6

Course Objectives
Define the concepts of Econometrics
Explain the concepts of dummy variables
Analyse research problems
Estimate future demand using Econometric models
Formulate hypothesis

UNIT I: Fundamentals of Econometrics **(21 Hours)**

Econometrics - Meaning - Definition - Scope - Objectives - Methodology of Econometrics Specification - Mathematical Economics and Econometrics - Econometric models - Methodology of Econometrics - Types of Econometrics - Role of Computer in Econometrics.

UNIT II: Simple Linear Regression Model **(21 Hours)**

CLRM assumptions - Properties of OLS - Gauss - Markov theorem - Confidence Intervals for the Estimated Parameters - Properties of estimator - Statistical inference - Testing of Hypotheses Coefficient of Determination - Prediction with the Simple Regression model.

UNIT III: Problems of Single Equation Model **(21 Hours)**

Problems in OLS Methods: Analysis of Residuals -Heteroscedasticity and Autocorrelation and Problem of Multicollineraity - their Consequences, Detection and Remedies Specification error.

UNIT IV: Qualitative Regression Model **(21 Hours)**

Introducing dummy (independent) variables - nature of dummy variables, variables with two categories and more than two categories, dummy variable trap - intercept Shifters - interaction of two categorical variables.

Unit V: Data analysis using Excel and SPSS **(21 Hours)**

Basics data management - importing data - recoding variables -univariate analysis - bivariate analysis - cross tabulations.

Teaching Methodology	Chalk and Talk

Books for Study

Books for Reference

Websites and eLearning Sources

Course Outcomes		
CO No.	**CO-Statements**	**Cognitive Levels (K-Level)**
	On successful completion of this course, students will be able to	

CO1	examine the fundamental concepts of Econometrics	**K1**
CO2	interpret regression models	**K2**
CO3	construct research problems	**K3**
CO4	analyse future estimates using Econometric models	**K4**
CO5	predict efficiency of economic policies	**K5**
CO6	formulate suitable research hypotheses	**K6**

Relationship Matrix											
Semester	**Course Code**			**Title of the Course**					**Hours**		**Credits**
3	**23PEC3CC09**			**Core Course - 9:** Econometrics					**7**		**7**
Course Outcomes	**Programme Outcomes (POs)**					**Programme Specific Outcomes (PSOs)**					**Mean Score of COs**
	PO1	**PO2**	**PO3**	**PO4**	**PO5**	**PSO1**	**PSO2**	**PSO3**	**PSO4**	**PSO5**	
CO1	3	2	2	2	1	3	3	2	2	3	**2.3**
CO2	1	3	2	1	2	3	3	2	2	3	**2.3**
CO3	1	2	3	2	3	2	3	2	3	2	**2.3**
CO4	1	2	2	3	1	2	3	2	2	2	**2.0**
CO5	2	2	2	2	3	1	3	2	2	3	**2.1**
CO6	1	2	3	2	3	2	3	2	2	2	**2.2**
										Mean Overall Score	**2.2 (High)**

Semester	Course Code	Title of the Course	Hours/Week	Credits
3	23SMS3CC01	**Common Core:** Human Resource Management	5	4

Course Objectives
To be competent with knowledge and skill of human resource management.
To nurture with the recent strategic HRM practices entitled to succeed competitive examinations
To be Potential enough to carry research activities in the areas of human resource management as per the need of the hour
To be Sensitized in the changing scenario of HR practices and being competent to start new ventures (Entrepreneurs)
To be Efficient to train subordinate by sharing the equipped and enriched knowledge in various fields of HR

UNIT I: **Introduction to Human Resource Management** **(15 Hours)**

HRM - Meaning, Nature, Objectives, Scope and Functions. Line and Staff views of HRM, HRM as a profession, Future role of HRM, Department structure of HRM.

UNIT II: Human Resource Planning & Recruitment **(15 Hours)**

HR planning: Job Analysis - Job Specification and Job description. Recruitment - Sources, characteristics and types. Selection process. Types of tests and interviews. Induction Programme. Promotion and Transfers, Demotions, Separations.

UNIT III: Strategic HRM & Performance Appraisal **(15 Hours)**

Role of HRM in Corporate Goal Setting, Levels and Models of Strategic HRM, Applications of Strategic HRM. Performance Appraisal - Purpose, Methods, Factors, Problems. Distinguish between Performance Appraisal and Potential Appraisal. Performance Management Systems.

UNIT IV: Training& Development **(15 Hours)**

Training- Need, Importance, Steps, Methods. Training needs assessment. Management Development Programme - Significance and methods. Stages of Career Planning and Development, Career counseling and Employee counselling.

UNIT V: Compensation Administration **(15 Hours)**

Compensation plan- Incentives- individual and group. Benefits - Bonus and Fringe benefits. Developing a sound compensation plan, wage policy, types of wage and Emoluments, Executive compensation - Factors and issues.

Teaching Methodology	Videos, Power Point Presentation and Case Study

Books for Study

1. Durai, P. (2010). *Human Resource Management*. Pearson Education Books.
2. (**Unit I &Unit III**- *Chapter 16,19,23*)
3. Prasad, L. M. (2017). *Human resource management*. Sultan Chand and Sons.
4. (**Unit II**- *Chapter 5and7*) (**Unit IV**- *Chapter 8,9 and 10*) (**Unit V**-*Chapter 11,15 and 25*)

Books for Reference

1. Rao, V.S.P. (2002). *Human Resource Management: Text & Cases*. Excel Books.
2. Flippo, E. (1984). *Personnel Management*. Tata McGraw Hill.
3. Dessler, G. (2016). *Human Resources Management*, (15th Ed.). Pearson Publisher.
4. Mamoria, C. B., & Gankar, S. V. (2008). *Human Resource management*. Himalaya Publishing House.
5. Monappa, A., & Saiyadain, M. (2001). *Personnel management*. Mc-Graw Hill Education.
6. DeCenzo, D. A., & Robbins, S. P. (2001). *Fundamentals of Human Resource Management*. John Wiley and Sons.

Course Outcomes		
CO No.	**CO-Statements** On successful completion of this course, students will be able to	**Cognitive Levels (K - Level)**
CO1	describe the principles of Human resource management.	**K1**
CO2	explain the features of Job evaluation techniques, compensation policies and procedures.	**K2**
CO3	illustrate various methods of recruitment, training and development.	**K3**
CO4	analyze and interpret the factors influencing employee relations and grievance handling mechanisms.	**K4**
CO5	recognize the Employees' empowerment in Indian and Global Scenario.	**K5**
CO6	integrate the managerial functions with operative functions	**K6**

Relationship Matrix											
Semester	**Course Code**	**Title of the Course**								**Hours**	**Credits**
3	**23SMS3CC01**	**Common Core:** Human Resource Management								**5**	**4**
Course Outcomes	**Programme Outcomes (POs)**					**Programme Specific Outcomes (PSOs)**					**Mean Score of COs**
	PO1	**PO2**	**PO3**	**PO4**	**PO5**	**PSO1**	**PSO2**	**PSO3**	**PSO4**	**PSO5**	
CO1	3	3	3	2	3	3	2	3	3	2	**2.7**
CO2	3	3	3	2	2	3	3	3	2	2	**2.6**
CO3	3	3	3	3	2	3	3	2	3	3	**2.8**
CO4	3	3	2	3	2	3	3	2	2	2	**2.5**
CO5	3	3	3	2	2	3	3	3	2	3	**2.7**
CO6	3	3	3	2	2	3	3	3	2	3	2.7
										Mean Overall Score	**2.7 (High)**

Semester	Course Code	Title of the Course	Hours/Week	Credits
4	23PEC4CC10	**Core Course - 10:** International Economics	7	6

Course Objectives
To know the importance of internal and international trade
To understand the importance of Terms of Trade.
To study the important theories of international trade.
To analyse the impact of financial institutions in the global market.
To integrate the impact of trade policies both at national and international level
To evaluate the significance of international financial flow.

UNIT I: Trade and Trade Theories **(21 Hours)**

Subject matter and importance of International Economics - Internal trade and International trade - International trade and economic development - Theories of Trade: Adam Smith, Ricardo, Heberler and Heckscher - Ohlin

UNIT II: Gains from Trade **(21 Hours)**

Gains from Trade - their measurement and distribution - Trade as an engine of economic growth - Terms of Trade: Types of Terms of Trade - Doctrine of Reciprocal Demand: importance and limitations in the theory of trade.

UNIT III: Free Trade Vs Protection **(21 Hours)**

Free Trade: Arguments for and against free trade - Protectionism: Arguments for and against Protectionism - Methods of Trade Restriction: Tariff and non-tariff trade barriers - Types of tariffs and quotas - Free Trade and policy of tariffs in relation to economic growth with special reference to India - Concept of Optimum Tariff - Dumping - Anti dumping - Anti-Dumping Policy - Countervailing Duties.

UNIT IV: Balance of Trade and Balance of Payments **(21 Hours)**

Concept and components of Balance of trade and Balance of payments - Structure of Balance of Payments - Equilibrium and disequilibrium in balance of payments - Measures to correct BOP disequilibrium - International financial flows: Measures to correct deficit in the balance of payments - Relative merits, demerits and limitations of devaluation.

UNIT V: Foreign Trade and International Institutions **(21 Hours)**

Recent Export and Import Policy of India- Concept and Implications of Foreign Trade Multiplier- IMF, World Bank and GATT/ WTO - MNC: Financial inflow, capital inflow- FDI, FII, Technology Transfer- SAARC, ASEAN, NAFTA, EU and BRICS.

Teaching Methodology	Lecturing, PPT, Case study discussions, and flipped learning.

Books for Study

Books for Reference

India's Economic Reforms. 1999-2001.

Websites and eLearning Sources

Course Outcomes		
CO No.	**CO-Statements** On successful completion of this course, students will be able to	**Cognitive Levels (K-Level)**
CO1	remember the importance of internal and international trade	**K1**
CO2	understand the importance of Terms of Trade.	**K2**
CO3	apply the important theories of international trade.	**K3**
CO4	analyse the impact of financial institutions in the global market.	**K4**
CO5	integrate the impact of trade policies both at national and international level	**K5**
CO6	evaluate the significance of international financial flow.	**K6**

Relationship Matrix											
Semester	**Course Code**			**Title of the Course**					**Hours**		**Credits**
4	**23PEC4CC10**			**Core Course - 10:** International Economics					**7**		**6**
Course Outcomes	**Programme Outcomes (POs)**					**Programme Specific Outcomes (PSOs)**					**Mean Score of COs**
	PO1	**PO2**	**PO3**	**PO4**	**PO5**	**PSO1**	**PSO2**	**PSO3**	**PSO4**	**PSO5**	
CO1	2	2	1	3	2	3	2	2	2	3	**2.2**
CO2	2	3	2	1	2	3	3	2	1	2	**2.1**
CO3	2	2	2	3	2	2	2	3	2	2	**2.2**
CO4	1	3	2	2	3	3	2	2	3	2	**2.3**
CO5	1	2	3	2	2	2	3	2	3	3	**2.3**
CO6	2	2	2	2	2	2	2	2	2	2	**2.0**
										Mean Overall Score	**2.18 (High)**

Semester	Course Code	Title of the Course	Hours/Week	Credits
4	23PEC4CC11	**Core Course - 11:** Research Methodology	6	5

Course Objectives
To remember the basic concepts of Research in Economics.
To understand the research process with the principal activities, skills and ethics.
To apply the knowledge of research in the society to solve the real problems faced by the people.
To analyse the research problem and to provide solutions.
To create new ideas in thesis writing using the mechanics of research report

UNIT I: Introduction to Social Science Research **(18 Hours)**

Meaning and definitions of Research - Pure research and applied research - Historical research and scientific research - Meaning of Social Science Research: Subject matter - Importance and problems in social science research, Objectivity in social science research - Case study method.

UNIT II: Research Problem and Research Design **(18 Hours)**

Research problem: Components, Selection, Sources and techniques involved in a Research Problem - Research design: Definition, Components, Features, Characteristics of a Good Research Design, Steps involved in Research Design- Role of review of literature.

UNIT III: Data Collection and Sampling Techniques **(18 Hours)**

Primary and Secondary Data - Methods of collecting Primary data: Schedule method - Observation method - Interview Method - Questionnaire method - Scales of measurement: nominal, ordinal, interval, ratio - Qualities of a good questionnaire. Secondary data: - Sources of secondary data: Published, unpublished and E-Sources-Field survey logistics - Challenges and solution - Census method and Sampling method - Methods of sampling: Random Sampling - simple and stratified Judgment method - Quota sampling, multistage sampling method. Sampling and non sampling errors - Methods of reducing both - Sampling size - Sampling design.

UNIT IV: Hypothesis **(18 Hours)**

Research Hypothesis: Meaning, sources, formulation, concepts, importance and types of hypothesis - Importance of hypothesis in social science research - Characteristics of a good hypothesis - Statistical Hypothesis: Null and Alternative - Procedure for testing hypothesis -Type-I and Type-II errors - Concept of Standard Error.

UNIT V: Analysis and Report Writing **(18 Hours)**

Meaning of analysis and Interpretation - Editing - Coding - Classification of data - Data entry - Statistical and Mathematical tools of analysis - SPSS - Meaning and significance of a Research Report - Research Report writing: Steps and Layout.

Teaching Methodology	Lecturing, PPT, Case study discussions, and flipped learning.

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Course Outcomes		
CO No.	**CO-Statements** On successful completion of this course, students will be able to	**Cognitive Levels (K-Level)**
CO1	remember the basic concepts of Research in Economics.	**K1**
CO2	understand the research process with the principal activities, skills and ethics.	**K2**
CO3	apply the knowledge of research in the society to solve the real problems faced by the people.	**K3**
CO4	evaluate the performance of the study area using sampling techniques.	**K4**
CO5	analyse the research problem and to provide solutions.	**K5**
CO6	create new ideas in thesis writing using the mechanics of research report	**K6**

Relationship Matrix											
Semester	**Course Code**		**Title of the Course**						**Hours**		**Credits**
4	**23PEC4CC11**		**Core Course - 11:** Research Methodology						**6**		**5**
Course Outcomes	**Programme Outcomes (POs)**					**Programme Specific Outcomes (PSOs)**					**Mean Score of COs**
	PO1	**PO2**	**PO3**	**PO4**	**PO5**	**PSO1**	**PSO2**	**PSO3**	**PSO4**	**PSO5**	
CO1	3	2	2	2	2	3	2	2	3	2	**2.3**
CO2	2	3	2	3	2	3	3	2	2	1	**2.3**
CO3	3	2	2	2	2	2	2	3	2	2	**2.2**
CO4	3	2	2	2	1	2	3	3	2	2	**2.2**
CO5	1	3	2	2	2	2	2	2	2	3	**2.1**
CO6	3	2	2	2	2	2	2	3	2	2	**2.2**
										Mean Overall Score	**2.21 (High)**

Semester	Course Code	Title of the Course	Hours/Week	Credits
4	23PEC4CC12	**Core Course - 12:** Industrial Economics	6	6

Course Objectives
Understand the organization of industries and the behaviour of firms.
Analyse pricing behaviour and its implications.
Compare different market structures (Perfect competition, monopolistic competition, monopoly and oligopoly)
Assess how the firms' actions affect various economic agents.
Formulate research models to solve societal issues.

UNIT I: Framework of Industrial Economics **(18 Hours)**

Concept and Organization of a Firm - Ownership, Control and Objectives of the Firm; Mergers and Acquisitions: Types, effects and problems- diversification-Strategic Alliance.

UNIT II: Theories of Industrial Location **(18 Hours)**

Industrial location - General determinants - Theories: Weber and Sargent Florence; Industrial Productivity - Concept and measurement - Tools of Industrial productivity - Productivity trends.

UNIT III: Industrial Finance **(18 Hours)**

Importance of industrial finance - Role, nature and sources of industrial finance - Financial statement - Balance sheet, Profit and loss account; assessment of financial soundness, ratio analysis

UNIT IV: Indian Industrial Growth **(18 Hours)**

Classification of Industries; large, medium and small scale industries - Role of Public and private sector; MNCs and transfer of technology; Regional industrial growth in India; Industrial economic concentration and remedial measures, Competition Act.- Software Industry- MSMEs

UNIT V: Project Appraisal/Evaluation Method & Principles **(18 Hours)**

Project identification - Project Selection - Project Formulation - Project Appraisal Net Present Value (NPV) and Internal Rate of Return (IRR) criteria-balancing private and social returns; PERT and CPM with case studies.

Teaching Methodology	Lecturing, PPT, Case study discussions, and flipped learning.

Books for Study

Books for Reference

Websites and eLearning Sources

Course Outcomes		
CO No.	**CO-Statements** On successful completion of this course, students will be able to	**Cognitive Levels (K-Level)**
CO1	examine economic and financial scope of industries.	**K1**
CO2	understand the important theories concerning organization of industries and the behaviour of firms within those industries.	**K2**
CO3	infer the pricing behaviour by the firms with market power and its welfare implications on the society both domestic and international.	**K3**
CO4	compare different market structures (Perfect competition, monopolistic competition, monopoly and oligopoly) their price and output relations and its implications on the society.	**K4**
CO5	assess how the firms' actions affect the consumer welfare, environment and intervention of the government.	**K5**
CO6	formulate models which could be applied in research for finding solutions to real life problems and environmental issues.	**K6**

Relationship Matrix											
Semester	**Course Code**			**Title of the Course**					**Hours**		**Credits**
4	**23PEC4CC12**			**Core Course - 12:** Industrial Economics					**6**		**6**
Course Outcomes	**Programme Outcomes (POs)**					**Programme Specific Outcomes (PSOs)**					**Mean Score of COs**
	PO1	**PO2**	**PO3**	**PO4**	**PO5**	**PSO1**	**PSO2**	**PSO3**	**PSO4**	**PSO5**	
CO1	3	2	2	2	1	2	3	2	1	3	**2.1**
CO2	3	2	2	2	1	3	3	2	3	3	**2.4**
CO3	2	3	1	2	3	3	3	2	3	3	**2.5**
CO4	3	3	1	2	2	3	3	3	3	2	**2.5**
CO5	3	3	2	2	3	3	3	2	3	3	**2.7**
CO6	3	2	3	2	2	2	3	3	3	3	**2.6**
										Mean Overall Score	**2.46 (High)**

Semester	Course Code	Title of the Course	Hours/Week	Credits
4	23PEC4ES04A	**Elective - 4:** Optimization Techniques in Economics	5	4

Course Objectives
To understand the fields of application of Optimization Techniques
To demonstrate concepts of Operations Research in Business
To solve Business problems quantitatively.
To prioritize the techniques of maximizing profit.
To evaluate minimizing cost concepts to ensure cost effectiveness.
To prepare business forecasting models.

UNIT I: Nature and Scope of Operations Research **(15 Hours)**

Operations Research: Origin, Scope, Techniques, Uses, Limitations of Operations Research

UNIT II: Linear Programming **(15 Hours)**

Linear programming - Standard LP - Graphical method - Simplex method, Big M method.

UNIT III: Transportation Problem **(15 Hours)**

Transportation problem- North - West Corner rule -Vogel's - Approximation method - Row Minima - Column Minima methods - Least cost method - Initial basic feasible solution only.

UNIT IV: Assignment Problem **(15 Hours)**

Assignment problem - Meaning - Hungarian method of solving assignment problems.

UNIT V: Simulation Techniques **(15 Hours)**

Simulation techniques - Simulation in Economic forecasting - Simulation problems.

Teaching Methodology	Lecturing, PPT, Case study discussions, and flipped learning.

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Course Outcomes		
CO No.	**CO-Statements** On successful completion of this course, students will be able to	**Cognitive Levels (K-Level)**
CO1	understand the models of Optimisation Techniques in OR	**K1**
CO2	summarize various Operations Research concepts suitable for finding optimal solutions in Economics.	**K2**
CO3	use Operations Research models to solve Business problems quantitatively.	**K3**
CO4	analyze the techniques of maximizing profit.	**K4**
CO5	estimate Minimizing cost concepts to ensure cost effectiveness.	**K5**
CO6	prepare simulation techniques in business forecasting.	**K6**

Relationship Matrix											
Semester	**Course Code**			**Title of the Course**						**Hours**	**Credits**
4	**23PEC4ES04A**			**Elective - 4:** Optimization Techniques in Economics						**5**	**4**
Course Outcomes	**Programme Outcomes (POs)**					**Programme Specific Outcomes (PSOs)**					**Mean Score of COs**
	PO1	**PO2**	**PO3**	**PO4**	**PO5**	**PSO1**	**PSO2**	**PSO3**	**PSO4**	**PSO5**	
CO1	2	2	1	3	2	3	2	2	2	3	**2.2**
CO2	2	3	2	1	2	3	3	2	1	2	**2.1**
CO3	2	2	2	3	2	2	2	3	2	2	**2.2**
CO4	1	3	2	2	3	3	2	2	3	2	**2.3**
CO5	1	2	3	2	2	2	3	2	3	3	**2.3**
CO6	2	2	2	2	2	2	2	2	2	2	**2.0**
Mean Overall Score											**2.18 (High)**

Semester	Course Code	Title of the Course	Hours/Week	Credits
4	23PEC4ES04B	**Elective - 4:** Information Economics	5	4

Course Objectives
To identify and define various concepts of Information Economics.
To understand information symmetry and asymmetry in economic markets.
To probe into the problems of asymmetric information and its impact on economic development.
To link Information & Communication Technology with economic activities and its outcome.
To determine how Information Economics and Information & Communication Technology are combined to achieve economic development.
To integrate subject knowledge and career opportunities for gainful employment.

UNIT I: Information and Economics **(15 Hours)**

Information Economics - meaning and definition - Relationship between Information and Economics: Concepts of Information Economics: information - knowledge - uncertainty - symmetrical and asymmetrical information and markets - excludability and information; Value of information in making choices.

UNIT II: Information as an Economic Good **(15 Hours)**

Information as a public and private good; Properties of Information that make it a good; Demand for and supply of information; Types of Asymmetric Information - Moral hazard, Adverse Selection and Monopolies of knowledge; Market Signaling and Screening.

UNIT III: Theories of Asymmetric Information **(15 Hours)**

Asymmetric information - Deadweight loss - market failure; Methods of reducing asymmetric information; George Akerlof's Model - Market for Lemons, Michael Spence's Model of Market Signaling and Joseph Stiglitz's Theory of Screening;

UNIT IV: Role of Information Economics **(15 Hours)**

Production information - Distribution information - Transactions information; Role of information in National Policy Planning and Evaluation, Decision-making, Education, Health, Research and Development.

UNIT V: Emergence of Information and Communication technology **(15 Hours)**

Definition of an Information System - Collection, Processing, Storing and Distribution of Information; Components of an Information System - hardware, software, data, procedures, people and feedback; Information and Communication technology - meaning and scope; Application of Information System and Information Technology in Economics - Online Information Sharing - Online Economic Transactions - Online Business - Digital Revolution.

Teaching Methodology	Lecturing, PPT, Case study discussions, and flipped learning.

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Course Outcomes		
CO No.	**CO-Statements** On successful completion of this course, students will be able to	**Cognitive Levels (K-Level)**
CO1	examine the basics of information in the domain of Economics as an economic good.	**K1**
CO2	associate the knowledge of various theories of Economics related to information symmetry and asymmetry with real life situations.	**K2**
CO3	explain the major problems in asymmetric information and its impact on economic development.	**K3**
CO4	analyse the role of Information and Communication Technology (ICT) in Economics.	**K4**
CO5	evaluate the role of Information Economics in economic planning and policy making.	**K5**
CO6	integrate the knowledge gained from Information Economics and ICT for career prospects with ethical commitment.	**K6**

Relationship Matrix											
Semester	**Course Code**			**Title of the Course**					**Hours**		**Credits**
4	**23PEC4ES04B**			**Discipline Specific Elective - 4:** Information Economics					**5**		**4**
Course Outcomes	**Programme Outcomes (POs)**					**Programme Specific Outcomes (PSOs)**					**Mean Score of COs**
	PO1	**PO2**	**PO3**	**PO4**	**PO5**	**PSO1**	**PSO2**	**PSO3**	**PSO4**	**PSO5**	
CO1	2	2	2	1	2	3	2	1	3	3	**2.1**
CO2	3	3	2	2	2	3	3	2	2	3	**2.5**
CO3	3	3	3	3	3	3	2	2	2	3	**2.7**
CO4	3	2	3	2	2	2	3	3	3	2	**2.5**
CO5	3	3	3	3	3	2	3	3	3	3	**2.9**
CO6	2	2	3	3	2	2	3	3	3	3	**2.6**
										Mean Overall Score	**2.55 (High)**

Semester	Course Code	Title of the Course	Hours/Week	Credits
4	**23PEC4PW01**	Project Work and Viva Voce	**6**	**5**

Course Objectives
To remember the various concepts and framework of the project
To understand the knowledge through various review of literature for concerned Project
To apply the theoretical background and the profile of the study area
To ananlze the various methods and techniques of data collection and analysis
To integrate the final Project Report

UNIT I: Introduction and Outline of the Project **(18 Hours)**

Introduction - Statement of the Problem - Scope - Objectives - Methodology - Hypothesis Importance - Limitations

UNIT II: Concepts and Review of Literature **(18 Hours)**

Concepts - Related Review of Literature - Various sources of Literature - viz., Publications through various Journals, Books - Economic Surveys - RBI Bulletins - Govt. Reports

UNIT III: Profile of the Study Area **(18 Hours)**

Profile: Geographical details - Company details - Important Places - Map

UNIT IV: Sampling Technique and Methods of Data collections **(18 Hours)**

Sampling Technique and its Types Primary Data collection and its methods - Secondary data collection and its methods.

UNIT V: Data Analysis and Interpretations **(18 Hours)**

Significance of SPSS - Excel - for data analysis - Report writing and findings, suggestions and conclusion. Appendix: Bibliography - Questionnaire, etc.

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Course Outcomes		
CO No.	**CO-Statements** On successful completion of this course, students will be able to	**Cognitive Levels (K-Level)**
CO1	remember the various concepts and framework of the project	**K1**
CO2	understand the knowledge through various review of literature for concerned Project	**K2**
CO3	apply the theoretical background and the profile of the study area	**K3**
CO4	ananlze the various methods and techniques of data collection and analysis	**K4**
CO5	integrate the final Project Report	**K5**
CO6	evaluate the various methods of data collection	**K6**

Relationship Matrix											
Semester	**Course Code**			**Title of the Course**					**Hours**		**Credits**
4	**23PEC4PW01**			Project Work and Viva Voce					**6**		**5**
Course Outcomes	**Programme Outcomes (POs)**					**Programme Specific Outcomes (PSOs)**					**Mean Score of COs**
	PO1	**PO2**	**PO3**	**PO4**	**PO5**	**PSO1**	**PSO2**	**PSO3**	**PSO4**	**PSO5**	
CO1	1	2	2	2	2	3	2	2	2	1	**1.9**
CO2	2	2	3	2	1	2	3	3	2	3	**2.3**
CO3	2	2	2	2	2	3	3	3	3	2	**2.4**
CO4	3	3	2	2	1	2	2	2	2	3	**2.2**
CO5	2	2	3	2	2	2	2	3	2	2	**2.2**
CO6	2	2	2	2	2	2	2	2	2	2	**2.0**
Mean Overall Score											**2.21 (High)**