

## ST. THOMAS COLLEGE (AUTONOMOUS) THRISSUR

## Affiliated to UNIVERSITY OF CALICUT

SYLLABUS FOR DEGREE OF
B.A. ECONOMICS HONOURS

(MAJOR, MINOR AND GENERAL

FOUNDATION COURSES)

## SYLLABUS & MODEL QUESTION PAPERS w.e.f. 2024 admissions

St. Thomas College Four Year Under Graduate Programme [STCFYUGP]

# B.A. ECONOMICS HONOURS (MAJOR, MINOR AND GENERAL FOUNDATION COURSES)

## **SYLLABUS**

## LIST OF UG BOARD MEMBERS OF ECONOMICS

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## PROGRAMME OUTCOMES (PO):

At the end of the graduate programme at St.Thomas college, a student would:

## PROGRAMME SPECIFIC OUTCOMES (PSO):

At the end of the BA Economics Honours programme at St.Thomas college, a student would:

PSO1	Study the basic concepts of economics.
PSO2	Examine the socio-economic problems and find out the strategies to overcome these problems through community engagement.
PSO3	Cultivate organizational, management, and leadership skills, along with the ability to assess socio-economic issues by gathering information from various sources and using software for analysis.
PSO4	Apply analytical thinking to various economic phenomena, including analysis and evaluation of economic policies, practices, evidences, arguments, claims and beliefs
PSO5	Acquire appropriate skills and knowledge to address the real world economic issues in familiar and unfamiliar contexts
PSO6	Formulate appropriate and relevant research questions, develop methodology and tools for data collection, presentation and analysis, and predict cause-effect relationships to deal with problems and situations to be solved through innovative practice.

# MINIMUM CREDIT REQUIREMENTS OF THE DIFFERENT PATHWAYS IN THE THREE-YEAR PROGRAMME IN STCFYUGP

Sl. No	Academic Pathway	Major	Minor/ Other Disciplines	Foundation Courses AEC: 4	Intern -ship	Total Credits	Example
				MDC: 3 SEC: 3 VAC: 3			
				Each course			
				has 3 credits			
1	Single Major	68	24	39	2	133	Major:
	(A)						Economics +
		(17	(6 courses)	(13 courses)			six courses in
		courses)					different
							disciplines in
							different
							combinations
2	Major (A)	68	12 + 12	39	2	133	Major:
	with Multiple						Economics +
	Disciplines	(17	(3 + 3 = 6)	(13 courses)			History and
	(B, C)	courses)	courses)				Political
							Science

3	Major (A)	68	24	39	2	133	Major:
	with	(17					Economics
	Minor (B)	courses)	(6 courses)	(13 courses)			Minor: History
4	Major (A)	68	24	39	2	133	Major:
	with						Economics
	Vocationa	(17	(6 courses)	(13 courses)			Minor:
	l Minor	courses)					Taxation
	(B)						Practices and
							Procedures
5	Double	A: 48	-	12 + 18 + 9	133	Economics	
	Major	(12	The 24 credi	ts in the Mino		and	
	(A, B)	courses)	are distribut	ted between	the two		Mathematics
			Majors.				double major
		B: 44					
		(11		SEC, 2 VAC			
		courses)	*	hould be in M	v		
				in Major A sl	nould be		
			48 + 20 = 68	(50% of 133)			
			1 MDC 1 9	EC and 1 VAC	C should		
			· · · · · · · · · · · · · · · · · · ·	B. Total credits:			
			B should be				
			(40% of 133)				
			1 ( 3,3 32 200)	,			<u>I</u>
	Exi	t with UG D	egree / Procee	ed to Fourth Ye	ar with 13	3 Credits	

## **B.A. ECONOMICS HONOURS PROGRAMME COURSE STRUCTURE FOR PATHWAYS 1 – 4**

1. Single Major

2. Major with Multiple Disciplines

3. Major with Minor

4. Major with Vocational Minor

Seme	Course		Total	Hours/	Credits	Marks		
ster	Code	Course Title	Hours	Week		Inter nal	Exter nal	Total
	ECO1CJ 101/ ECO1MN 100	Core Course 1 in Major – Principles of Economics	75	5	4	30	70	100
		Minor Course 1	60/75	4/ 5	4	30	70	100
		Minor Course 2	60/75	4/ 5	4	30	70	100
1	ENG1FA 101(1B)	Ability Enhancement Course 1– English	60	4	3	25	50	75
		Ability Enhancement Course 2 – Additional Language	45	3	3	25	50	75

		Multi-Disciplinary Course 1 – Other than Major	45	3	3	25	50	75
		Total		23/ 25	21			525
	ECO2CJ 102/ ECO2MN 100	Core Course 2 in Major – Budget Analysis	75	5	4	30	70	100
		Minor Course 3	60/75	4/5	4	30	70	100
		Minor Course 4	60/75	4/ 5	4	30	70	100
2	ENG2FA 103(1B)	Ability Enhancement Course 3– English	60	4	3	25	50	75
		Ability Enhancement Course 4 – Additional Language	45	3	3	25	50	75
		Multi-Disciplinary Course 2 – Other than Major	45	3	3	25	50	75
		Total		23/ 25	21			525

Como	Солима		Total	Hours/	Credits	Marks		
Seme ster	Course Code	Course Title	Hours	Week		Inter nal	Exter nal	Total
	ECO3CJ 201	Core Course 3 in Major – Analytical Tools for Economics – I	60	4	4	30	70	100
	ECO3CJ 202/ ECO3MN 200	Core Course 4 in Major – Evolution of Economic Theories	60	4	4	30	70	100
3		Minor Course 5	60/75	4/ 5	4	30	70	100
		Minor Course 6	60/75	4/5	4	30	70	100
		Multi-Disciplinary Course 3 – Kerala Knowledge System	45	3	3	25	50	75
	ENG3FV 108(1B)	Value-Added Course 1 – English	45	3	3	25	50	75
		Total		22/ 24	22			550
	ECO4CJ 203	Core Course 5 in Major – Intermediate Microeconomics	60	4	4	30	70	100
	ECO4CJ 204	Core Course 6 in Major – Intermediate Macroeconomics	60	4	4	30	70	100
	ECO4CJ 205	Core Course 7 in Major – Analytical Tools for Economics – II	60	4	4	30	70	100
4	ENG4FV 109(1B)	Value-Added Course 2 – English	45	3	3	25	50	75
		Value-Added Course 3 – Additional Language	45	3	3	25	50	75
	ENG4FS 111(1B)	Skill Enhancement Course 1 – English	60	4	3	25	50	75
		Total		22	21			525

Seme	Course		Total	Hours/	Credits	Marks		
ster	Code	Course Title	Hours	Week		Inter nal	Exter nal	Total
		Core Course 8 in Major – Advanced Microeconomics	60	4	4	30	70	100
	ECO5CJ 302	Core Course 9 in Major – International Trade Theories	60	4	4	30	70	100
5		Core Course 10 in Major – Growth Theories in Economics	60	4	4	30	70	100
		Elective Course 1 in Major	60	4	4	30	70	100

		Elective Course 2 in Major	60	4	4	30	70	100
		Skill Enhancement Course 2	45	3	3	25	50	75
		Total		23	23			575
	ECO6CJ 304/ ECO 8MN304	Core Course 11 in Major – Development Issues in Indian Economy	60	4	4	30	70	100
	ECO6CJ 305/ ECO8MN 305	Core Course 12 in Major – Elementary Econometrics	75	5	4	30	70	100
6	ECO6CJ 306/ ECO8MN 306	Core Course 13 in Major – Advanced Macroeconomics	60	4	4	30	70	100
		Elective Course 3 in Major	60	4	4	30	70	100
		Elective Course 4 in Major	60	4	4	30	70	100
	ECO6FS 113	Skill Enhancement Course 3 – Economic Research with R	45	3	3	25	50	75
	ECO6CJ 349	Internship in Major (Credit for internship to be awarded only at the end of Semester 6)	60		2	50	-	50
		Total		24	25			625
	•	<b>Total Credits for Three Years</b>		•	133			3325

					Credits	Marks		
Seme ster	Course Code	Course Title	Total Hours	Hours/ Week		Inter nal	Exter nal	Total
	ECO7CJ 401	Core Course 14 in Major – Time Series Econometrics	75	5	4	30	70	100
	ECO7CJ 402	Core Course 15 in Major – Game Theory and Economic Behaviour	75	5	4	30	70	100
7	ECO7CJ 403	Core Course 16 in Major – Development Theories and Models	75	5	4	30	70	100
	ECO7CJ 404	Core Course 17 in Major – Balance of Payments and Exchange Market	75	5	4	30	70	100
	ECO7CJ 405	Core Course 18 in Major – Development Issues in Kerala	75	5	4	30	70	100
		Total		25	20			500

		<b>Total Credits for Four Years</b>				177		4425		
		Total		25	24			600		
	ECO8CJ 489 (1)/ ECO8CJ 489 (2)	Methods for Quantitative Research in Economics/ Methods for Qualitative Research in Economics	60	4	4	30	70	100		
	OR (in	stead of Elective Course 7 in Major, in th	e case of	Honours	with Re	search	Progran	nme)		
		Elective Course 7 in Major / Minor Course 9 / Major Course in any Other Discipline	60	4	4	30	70	100		
		Elective Course 6 in Major / Minor Course 8	60	4	4	30	70	100		
		Elective Course 5 in Major / Minor Course 7	60	4	4	30	70	100		
O	ECO8CJ 499	Research Project (in Honours with Research programme)	360*	13*	12	90	210	300		
8	ECO8CJ 449	Project (in Honours programme)	360*	13*	12	90	210	300		
	OR (instead of Core Courses 19 – 21 in Major)									
	ECO8MN 408		60	4	4	30	70	100		
	ECO8CJ 408 /	Core Course 21 in Major – Heterodox Economics		_		20	70	100		
	ECO8MN 407		60	4	4	30	70	100		
	ECO8CJ 407 /	Core Course 20 in Major – Applied Microeconomics and Evaluation		4		30	70	100		
	ECO8MN 406	Measurement				30	70	100		
	ECO8CJ 406 /	Core Course 19 in Major – Macroeconomic Models and	75	5	4	20	70	100		

<sup>\*</sup> The teacher should have 13 hrs/week of engagement (the hours corresponding to the three core courses) in the guidance of the Project(s) in Honours programme and Honours with Research programme, while each student should have 24 hrs/week of engagement in the Project work. Total hours are given based on the student's engagement.

## **CREDIT DISTRIBUTION FOR PATHWAYS 1 – 4**

1. Single Major

3. Major with Minor

2. Major with Multiple Disciplines

4. Major with Vocational Minor

Semester	Major Courses	Minor Courses	General Foundation Courses	Internship/ Project	Total
1	4	4 + 4	3 + 3 + 3	-	21
2	4	4 + 4	3 + 3 + 3	-	21
3	4 + 4	4 + 4	3 + 3	-	22
4	4 + 4 + 4	-	3 + 3 + 3	-	21
5	4 + 4 + 4 + 4 + 4	-	3	-	23
6	4 + 4 + 4 + 4 + 4	-	3	2	25
Total for					
Three	68	24	39	2	133
Years					
7	4 + 4 + 4 + 4 + 4	-	-	-	20
8	4 + 4 + 4	4 + 4 + 4	-	12*	24
	* In	stead of thre	ee Major course	es	
Total for Four Years	88 + 12 = 100	36	39	2	177

## DISTRIBUTION OF MAJOR COURSES IN ECONOMICS FOR PATHWAYS 1 – 4

1. Single Major

2. Major with Multiple Disciplines

3. Major with Minor

4. Major with Vocational Minor

Semester	Course Code	Course Title	Hours/ Week	Credits
1	ECO1CJ 101 / ECO1MN 100	Core Course 1 in Major – Principles of Economics	5	4
2	ECO2CJ 102 / ECO2MN 100	Core Course 2 in Major – Budget Analysis	5	4
	ECO3CJ 201	Core Course 3 in Major – Analytical Tools for Economics – I	4	4

3	ECO3CJ 202 /	Core Course 4 in Major – Evolution of Economic	4	4
	ECO3MN	Theories	4	4
	200			

	ECO4CJ 203	Core Course 5 in Major – Intermediate Microeconomics	4	4
4	ECO4CJ	Core Course 6 in Major – Intermediate	4	4
	204	Macroeconomics		
	ECO4CJ	Core Course 7 in Major – Analytical Tools for	4	4
	205	Economics – II		•
	ECO5CJ	Core Course 8 in Major – Advanced	4	4
	301	Microeconomics	4	4
	ECO5CJ	Core Course 9 in Major – International Trade	4	4
_	302	Theories	7	7
5	ECO5CJ	Core Course 10 in Major – Growth Theories in	4	4
	303	Economics	4	4
		Elective Course 1 in Major	4	4
		Elective Course 2 in Major	4	4
	ECO6CJ			
	304 /	Core Course 11 in Major –		
	ECO8MN	Development Issues in Indian Economy	4	4
	304			
	ECO6CJ			
	305 /	Core Course 12 in Major – Elementary	_	
	ECO8MN	Econometrics	5	4
	305			
6	ECO6CJ			
	306 /	Core Course 13 in Major – Advanced		
	ECO8MN	Macroeconomics	4	4
	306			
		Elective Course 3 in Major	4	4
		Elective Course 4 in Major	4	4
	ECO6CJ 349	Internship in Major	-	2
	•	Total for the Three Years		70
	ECO7CJ	Core Course 14 in Major – Time Series		
	401	Econometrics	5	4
	ECO7CJ	Core Course 15 in Major – Game Theory and	_	
	402	Economic Behaviour	5	4
L	1	J		

7	ECO7CJ 403	3		4
	ECO7CJ 404	Core Course 17 in Major – Balance of Payments and Exchange Market	5	4
	ECO7CJ 405	Core Course 18 in Major – Development Issues in Kerala	5	4

	ECO8CJ	Core Course 19 in Major – Macroeconomic		
	406 /	Models and Measurement	5	4
	ECO8MN		3	4
	406			
	ECO8CJ	Core Course 20 in Major – Applied		
	407 /	Microeconomics and Evaluation	4	4
	ECO8MN		4	4
	407			
	ECO8CJ	Core Course 21 in Major – Heterodox Economics		
	408 /		4	4
	ECO8MN		'	4
	408			
8		OR (instead of Core Courses 19 – 21 in Major	)	
	ECO8CJ	Project	13	12
	449	(in Honours programme)	13	12
	ECO8CJ	Project	13	12
	499	(in Honours with Research programme)	13	12
		Elective Course 5 in Major	4	4
		Elective Course 6 in Major	4	4
		Elective Course 7 in Major	4	4
	OR (instea	nd of Elective course 7 in Major, in Honours with Res	earch prog	ramme)
	ECO8CJ	Methods for Quantitative Research in Economics/		
	489 (1)/	Methods for Qualitative Research in Economics	4	4
	ECO8CJ		<del>'1</del>	<del>'1</del>
	489 (2)			
		Total for the Four Years		114

## **ELECTIVE COURSES IN ECONOMICS**

Sl.	Course	Title	Seme	Total	Hrs/	Cre	Marks		S
No.	Code		ster	Hrs	Week	dits	Inte	Exte	Total
							rnal	rnal	

1	ECO5EJ	Gender Analysis in	_				20	<b>7</b> 0	100
	301	Economics	5	60	4	4	30	70	100
2	ECO5EJ	Environment and	5	60	4	4	30	70	100
	302	Sustainable Development	3	00	4	4	30	70	100
3	ECO5EJ	Economic Database	5	60	4	4	30	70	100
	303	Management	3	00	4	4	30	70	100
4	ECO5EJ	Economics of Labour	5	60	4	4	30	70	100
	304	Market	3	00	7	7	30	70	100
5	ECO5EJ	Health Economics	5	60	4	4	30	70	100
	305			00	•		30	70	100
6	ECO5EJ	Human Capital and	5	60	4	4	30	70	100
	306	Economic Development			-	-			
7	ECO6EJ	Industrial Economics	6	60	4	4	30	70	100
	307				-	-		, ,	
8	ECO6EJ	Agricultural Economics	6	60	4	4	30	70	100
	308								
9	ECO6EJ	Indian Financial Market	6	60	4	4	30	70	100
1.0	309								
10	ECO6EJ	Demography	6	60	4	4	30	70	100
1.1	310	D ' M d 1 C							
11	ECO6EJ	Basic Methods for	6	60	4	4	30	70	100
12	311 ECO(EL	Economic Research							
12	ECO6EJ 312	Economic Geography	6	60	4	4	30	70	100
13	ECO8EJ	Social Choice Theory							
13	401	Social Choice Theory	8	60	4	4	30	70	100
14	ECO8EJ	Banking and Insurance							
14	402	Danking and insurance	8	60	4	4	30	70	100
15	ECO8EJ	Economics of Education							
	403	Leonomies of Ladeation	8	60	4	4	30	70	100
16	ECO8EJ	Law and Economics							
	404		8	60	4	4	30	70	100
17	ECO8EJ	Local Level Planning					_		
	405		8	60	4	4	30	70	100
18	ECO8EJ	Finance and Technology	_						
	406		8	60	4	4	30	70	100
			1	1	<u> </u>				<u> </u>

## **GROUPING OF MINOR COURSES IN ECONOMICS**

(The minor courses given below should not be offered to students who have taken Economics/Development Economics/Economics with Foreign Trade/Economics with Islamic Finance as the major discipline.)

(Title of the Minor: **ECONOMICS**)

Group	Sl.	Course	Title	Seme	Total	Hrs/	Cre		Marks	}
No.	No.	Code		ster	Hrs	Week	dits	Inte	Exte	Total
								rnal	rnal	
1			FISCAL P	OLICY	IN PRA	CTICE				
	1	ECO1MN	Fiscal Tools for Policy	1	60	4	4	30	70	100
		101	Formulation	1	00		•	30	70	100
	2	ECO2MN	Fiscal Policy and	2	60	4	4	30	70	100
		101	Stabilization		00	•		50	70	100
	3	ECO3MN	Tax Policy in India	3	60	4	4	30	70	100
		201				·	•		, 0	100
2			MONETADY	DOLIC	N IN DI		ישני			
4	1	ECO1MN	MONETARY	POLIC	XINP	KACII	∠ <b>L</b> C		I	
	1		Monetary Tools for Policy	1	60	4	4	30	70	100
	2	102 ECO2MN	Formulation  Monetary Policy and							
	2		·	2	60	4	4	30	70	100
	3	102 ECO3MN	Stabilization							
	3		Monetary Policy in India	3	60	4	4	30	70	100
		202	Wionetary Foney in mara							
3			SECTORAL DYNA	MICS 1	N INDI	AN ECO	ONOM	ΙΥ		
	1	ECO1MN	Sectoral contributions in						-0	100
		103	Indian Economy	1	60	4	4	30	70	100
	2	ECO2MN	•	2	60	4		20	70	100
		103	Industrial Policies in India	2	60	4	4	30	70	100
	3	ECO3MN	Agricultural Development	3	60	4	4	30	70	100
		203	in India	3	60	4	4	30	/0	100
4			INDIAN ECO	NOMIC	DEVE	LOPME	NT			

	1	ECO1MN	Development issues in	1	60	4	4	30	70	100
		104	Indian Economy	•	00	•	•	30	, 0	100
	2	ECO2MN	Trade Policy in India	2	60	4	4	30	70	100
		104	Trade Toney in maia	2		•	7	30	70	100
	3	ECO3MN	Knowledge Economy in	3	60	4	4	30	70	100
		204	India	3	00	•	7	30	70	100
5			FOUNDAT	IONS O	F ECON	OMICS	8			
	1	ECO1MN	Microeconomics	1	60	4	4	30	70	100
		105	Foundations							
	2	ECO2MN	Macroeconomics	2	60	4	4	30	70	100
	105 Foundations 3 ECO3MN Foundations of Global		Foundations							
			3	60	4	4	30	70	100	
		205	Economics							

## DISTRIBUTION OF GENERAL FOUNDATION COURSES IN ECONOMICS

Sem	Comman		Total	House,	Creadit		Marks	
este r	Course Code	Course Title	Total Hours	Hours/ Week	Credit s	Inter nal	Exter nal	Total
1	ECO1FM 105	Multi-Disciplinary Course 1 - Security Trading Practices	45	3	3	25	50	75
2	ECO2FM 106	D2FM Multi-Disciplinary Course 2		3	3	25	50	75
3	ECO3FV 108	Financial Literacy and		3	3	25	50	75
4	ECO4FV 110	Value-Added Course 2 – Digital Marketing and E-		3	3	25	50	75
5	Skill Enhancement Course		45	3	3	25	50	75
6	ECO6FS 113	Skill Enhancement Course 3 –Economic Research with R	45	3	3	25	50	75

#### **EVALUATION SCHEME**

- 1. The evaluation scheme for each course contains two parts: internal evaluation (about 30%) and external evaluation (about 70%). Each of the Major and Minor courses is of 4-credits. It is evaluated for 100 marks, out of which 30 marks is from internal evaluation and 70 marks, from external evaluation. Each of the General Foundation course is of 3-credits. It is evaluated for 75 marks, out of which 25 marks is from internal evaluation and 50 marks, from external evaluation.
- **2.** The 4-credit courses (Major and Minor courses) are of two types: (i) courses with only theory and (ii) courses with 3-credit theory and 1-credit practical.
  - In 4-credit courses with only theory component, out of the total 5 modules of the syllabus, one open-ended module with 20% content is designed by the faculty member teaching that course, and it is internally evaluated for 10 marks. The internal evaluation of the remaining 4 theory modules is for 20 marks.
  - In 4-credit courses with 3-credit theory and 1-credit practical components, out of the total 5 modules of the syllabus, 4 modules are for theory and the fifth module is for practical. The practical component is internally evaluated for 20 marks. The internal evaluation of the 4 theory modules is for 10 marks.
- **3.** All the 3-credit courses (General Foundational Courses) in Economics are with only theory component. Out of the total 5 modules of the syllabus, one open-ended module with 20% content is designed by the faculty member teaching that course, and it is internally evaluated for 5 marks. The internal evaluation of the remaining 4 theory modules is for 20 marks.
- **4.** The students can write the external examination in Economics either completely in English or in Malayalam.

Sl. No.				ation in Marks of the total)	External Exam	Total Marks
			Open-ended module / Practical	On the other 4 modules	on 4 modules (Marks)	
1	4-credit course	only theory (5 modules)	10	20	70	100
2	4-credit course	Theory (4 modules) + Practical	20	10	70	100
3	3-credit course	only theory (5 modules)	5	20	50	75

#### 1. MAJOR AND MINOR COURSES

#### 1.1. INTERNAL EVALUATION OF THEORY COMPONENT

Sl. No.	Components of Internal Evaluation of Theory Part of a Major / Minor	Internal Marks for the Theory Part of a Major / Minor Course of 4-credits				
	Part of a Major / Minor Course	Theory	Theory Only		Theory + Practical	
	Course	4 Theory	Open-ended	4 Theory	Practical	
		Modules	Module	Modules		
1	Test paper/	10	4	5	-	
	Mid-semester Exam					
2	Seminar/ Viva/ Quiz	6	4	3	-	
3	Assignment	4	2	2	-	
		20	10	10	20*	
	Total	30	)	í.	30	

<sup>\*</sup> Refer the table in section 1.2 for the evaluation of practical component

#### 1.2. EVALUATION OF PRACTICAL COMPONENT

The evaluation of practical component in Major and Minor courses is completely by internal evaluation.

- Continuous evaluation of practical by the teacher-in-charge shall carry a weightage of 50%.
- The end-semester practical examination and viva-voce, and the evaluation of practical records shall be conducted by the teacher in-charge and an internal examiner appointed by the Department Council.
- The process of continuous evaluation of practical courses shall be completed before 10 days from the commencement of the end-semester examination.
- Those who passed in continuous evaluation alone will be permitted to appear for the endsemester examination and viva-voce.

The scheme of continuous evaluation and the end-semester examination and viva-voce of practical component shall be as given below:

Sl. No.	Evaluation of Practical Component	Marks for	Weightage
	of Credit-1 in a Major / Minor Course	Practical	
1	Continuous evaluation of practical/ exercise	10	50%
	performed in practical classes by the students		
2	End-semester examination and viva-voce to be	7	35%

	conducted by teacher-in-charge along with an additional examiner arranged internally by the Department Council		
3	Evaluation of the Practical records submitted for the end semester viva—voce examination by the teacher-in-charge and additional examiner	3	15%
	Total Marks	20	

#### 1.3. EXTERNAL EVALUATION OF THEORY COMPONENT

External evaluation carries 70% marks. Examinations will be conducted at the end of each semester. Individual questions are evaluated in marks and the total marks are converted into grades based on 10-point grading system (refer section 5).

PATTERN OF (	<b>QUESTION PAPER</b>	FOR MAJOR	AND MINOR	COURSES
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		Total No. of No. of	Marks for	Ceilin	
Duration	Туре	Questions	Questions to be Answered	Each Question	g of Marks
			Allswelleu	Question	Marks
	Short Answer	10	8 - 10	3	24
2 Hours	Paragraph/ Problem	8	6 – 8	6	36
	Essay	2	1	10	10
Total Marks					

#### 2. INTERNSHIP

- All students should undergo Internship of 2-credits during the first six semesters in a firm, industry or organization, or training in labs with faculty and researchers of their own institution or other Higher Educational Institutions (HEIs) or research institutions.
- Internship can be for enhancing the employability of the student or for developing the research aptitude.
- Internship can involve hands-on training on a particular skill/ equipment/ software. It can be a short project on a specific problem or area. Attending seminars or workshops related to an area of learning or skill can be a component of Internship.
- A faculty member/ scientist/ instructor of the respective institution, where the student does the Internship, should be the supervisor of the Internship.

#### 2.1. GUIDELINES FOR INTERNSHIP

1. All students shall undergo Internship or Apprenticeship in a firm, industry or organization, or training in labs with faculty and researchers of their own institution or other Higher Educational Institutions (HEIs) or research institutions.

- 2. For an internship, one credit of Internship means two-hour engagement per week. Accordingly, in a semester of 15 weeks' duration, two credits in this course is equivalent to 60 hours of engagement.
- 3. The students involved in the internship may continue their internship subject to the condition that his/her academic credits do not get affected in terms of attendance and other assignments. If the need arises, students may also have an opportunity to make use of summer & winter breaks for extending their learning from internships.

#### 4. The internship aims to impart:

- The students should have an understanding and ability to develop solutions for real-life problems.
- The students will be made aware of the research ethics, professional accountability, conduct and will be able to practice the research ethics and appropriate skills in his/her own research work.
- The student will be able to enhance academic productivity by developing writing and reading skills and can make contributions towards social and economic issues.
- The intern can possess an attitude and skill of adaptability and flexibility for new challenges at organizational and individual level with a mindset of teamwork and collaborations.
- To increase the likelihood of securing future employment and to explore and clarify carrier goals.
- To develop a strong work ethics, time management and professionalism in a professional environment.

#### 5. Role of Internship Coordinator

- An internship coordinator is a teacher, who will be nominated by the Department Council (DC) for monitoring and supervising the student during the internship duration. This person will be nominated at the start of the academic year for each batch.
- Internship Supervisor from the host institute should monitor the regularity of the intern at his/her workplace. On the completion of internship, the student should submit the project report in the prescribed format along with internship completion certificate issued by Internship Supervisor/authority from host organization. The project report shall be evaluated by faculty member delegated by the department council.
- Students can choose following organizations and mentor from HEIs/research organizations/registered industries/registered media organizations/ and companies/registered retail service providers/R&D labs and centres. They can also opt

Cooperative Organizations/Banking and nonbanking organizations/Insurance companies/Stock Broking Companies/Microfinance Institutions/Other national and international reputed institutions/libraries in HEIs and registered under library council /NGOs/certified farmers/plantations/local self-governing bodies/ outside India experts working at the international level, Organizations under State Government/Central Government, elected representatives to the parliament/ state assembly. Students can also undertake an internship from national/international reputed institutions through online mode.

#### 6. Guidelines for Internship Report

- The Internship certificate should be certified by the Head of the Institution. It should contain the Name of the Student, Name of the Internship course, Name of the Institute, Type of work done and duration of work (60 hrs).
- Internship Report should contain 3000-5000 words typed in Times New Roman, size 12,
   1.5 space, on double sides and neatly soft bound. It should be submitted to the concerned
   Department before VI Semester Exam Notification.
- The Internship Report should be in the following structure
  - a) Title page- Title of the Internship, Name and Register Number of the Student, Year, Name of the institute and name of the college and department.
  - b) Declaration
  - c) Certificate signed by the Head of the Institution (Internship Institute)
  - d) Index
  - e) Content Page Introduction

Nature of the work

Methodology

Outcome of the work

Limitations

Suggestions

#### 2.2. EVALUATION OF INTERNSHIP

- The evaluation of Internship shall be done internally through continuous assessment mode by a committee internally constituted by the Department Council of the college where the student has enrolled for the UG Honours programme.
- The credits and marks for the Internship will be awarded only at the end of semester 6.
- The scheme of continuous evaluation and the end-semester viva-voce examination based on the submitted report shall be as given below:

Sl. No.	Components of Evaluation of Internship		Marks for Internship	Weightage
			2 Credits	
1	Continuous evaluation of internship through interim	Acquisition of skill set	10	40%
2	presentations and reports by the committee internally	Interim Presentation and Viva-voce	5	
3	constituted by the Department Council	Punctuality	5	
4	Report of Institute Visit/ Stud	dy Tour	5	10%
5	End-semester viva-voce examination to be	Quality of the work	6	35%
6	conducted by the	Presentation of the work	5	
7	committee internally constituted by the Department Council	Viva-voce	6	
8	Evaluation of the day-to-d internship supervisor, and finend semester viva—voce committee internally constitution.	nal report submitted for the examination before the ituted by the Department	8	15%
		Total Marks	50	

#### 3. PROJECT

#### 3.1. PROJECT IN HONOURS PROGRAMME

- In Honours programme, the student has the option to do a Project of 12-credits instead of three Core Courses in Major in semester 8.
- The Project can be done in the same institution/ any other higher educational institution (HEI)/ research centre/ training centre.
- The Project in Honours programme can be a short research work or an extended internship or a skill-based training programme.
- A faculty member of the respective institution, where the student does the Project, should be the supervisor of the Project.

#### 3.2. PROJECT IN HONOURS WITH RESEARCH PROGRAMME

- Students who secure 75% marks and above (equivalently, CGPA 7.5 and above) cumulatively in the first six semesters are eligible to get selected to Honours with Research stream in the fourth year.
- A relaxation of 5% in marks (equivalently, a relaxation of 0.5 grade in CGPA) is allowed for

- those belonging to SC/ST/OBC (non-creamy layer)/ Differently-Abled/ Economically Weaker Section (EWS)/ other categories of candidates as per the decision of the UGC from time to time.
- In Honours with Research programme, the student has to do a mandatory Research Project of 12-credits instead of three Core Courses in Major in semester 8.
- The approved research centres of University of Calicut or any other university/ HEI can offer the Honours with Research programme. The departments in the affiliated colleges under University of Calicut, which are not the approved research centres of the University, should get prior approval from the University to offer the Honours with Research programme. Such departments should have minimum two faculty members with Ph.D., and they should also have the necessary infrastructure to offer Honours with Research programme.
- A faculty member of the College with a Ph.D. degree can supervise the research project of the students who have enrolled for Honours with Research. One such faculty member can supervise maximum five students in Honours with Research stream.
- The maximum intake of the department for Honours with Research programme is fixed by the department based on the number of faculty members eligible for project supervision, and other academic, research, and infrastructural facilities available.
- If a greater number of eligible students are opting for the Honours with Research programme than the number of available seats, then the allotment shall be based on the existing rules of reservations and merits.

# 3.3. GUIDELINES FOR THE PROJECT IN HONOURS PROGRAMME AND HONOURS WITH RESEARCH PROGRAMME

- 1. Project can be done in topics related to Economics.
- 2. Project should be done individually.
- 3. Project work can be of experimental/ theoretical/ analytical in nature.
- 4. There should be minimum 240 hrs. of engagement from the student in the Project work in Honours programme.
- 5. There should be minimum 13 hrs./week of engagement (the hours corresponding to the three core courses in Major in semester 8) from the teacher in the guidance of the Project(s) in Honours programme and Honours with Research programme.

5.	The various steps in project works are the following:
	☐ Wide review of a topic.
	☐ Investigation on a problem in systematic way using appropriate techniques.

	☐ Systematic recording of the work.
	☐ Reporting the results with interpretation in a standard documented form.
	Presenting the results before the examiners.
7.	A hard copy of the report should be kept for reference at the department. A soft copy of the
	report should be submitted in pdf format for external evaluation well in advance.
8.	It is desirable, but not mandatory, to publish the results of the Project in a peer reviewed journal.
9.	The project report shall have declaration from the student and certificate from the research
	supervisor for originality of the work, stating that the work has not been submitted for the award
	of any other degree/ diploma in the same institution or any other institution.
10.	Plagiarism check report has to be incorporated in the project report after the declaration of the
	student.
11.	The project proposal, institution at which the project is being carried out, and the project
	supervisor should be prior-approved by the Department Council of the college where the student
	has enrolled for the UG Honours programme.
12.	Structure of the Project
	☐ Cover Page and Front Page
	a. Title of the project
	b. Degree for which project is submitted.
	c. Name of the Candidate & Register Number
	d. Name of the College
	e. Month and year of the project report submission
	☐ Contents
	a. Declaration by the student
	b. Plagiarism check certificate
	c. Certificate of the supervising teacher countersigned by the head of the department.
	d. Acknowledgement.
	e. Table of Contents
	f. List of Tables
	g. List of Figures
	h. Introductory Chapter
	i. Analysis Chapters
	j. Concluding Chapter
	k. Bibliography
	1. Appendix
	Contents of the Introductory Chapter

- 1. Introduction
- 2. Review of literature
- 3. Research Gap
- 4. Statement of the problem
- 5. Significance of the study
- 6. Scope of the study
- 7. Statement of objectives
- 8. Hypotheses (optional)
- 9. Methodology
  - a. Data sources
  - b. Tools of analysis (quantitative and qualitative)
  - c. Conceptual Framework-Optional (specification of terms and concepts)
- 10. Limitations of the study
- 11. Chapter outlines.

## Style of Report

- 1. Report Length: 50 to 70 pages excluding Appendix and Certificates
- 2. Alignment: Justify
- 3. Font: Times New Roman
- 4. Font size: 12
- 5. Line spacing: 1.5

Bibliography: APA style

#### 3.4. EVALUATION OF PROJECT

- The evaluation of Project will be conducted at the end of the eighth semester by both internal and external modes.
- The Project in Honours programme as well as that in Honours with Research programme will be evaluated for 300 marks. Out of this, 90 marks is from internal evaluation and 210 marks, from external evaluation.
- The internal evaluation of the Project work shall be done through continuous assessment mode by a committee internally constituted by the Department Council of the college where the student has enrolled for the UG Honours programme. 30% of the weightage shall be given through this mode.
- The remaining 70% shall be awarded by the external examiner appointed by the college.
- The scheme of continuous evaluation and the end-semester viva-voce of the Project shall be as given below:

Components of Evaluation of Project	Marks for the Project	Weightage
	(Honours/	
	Honours with Research)	
Continuous evaluation of project work through	90	30%
interim presentations and reports by the		
committee internally constituted by the		
Department Council		
End-semester viva-voce examination to be	150	50%
conducted by the external examiner appointed by		
the college		
Evaluation of the day-to-day records and project	60	20%
report submitted for the end-semester viva-voce		
examination conducted by the external examiner		
Total Marks	300	

## INTERNAL EVALUATION OF PROJECT

Sl. No	Components of Evaluation of Project	Marks for the Project (Honours/ Honours with Research)
1	Skill in doing project work	30
2	Interim Presentation and Viva-Voce	20
3	Punctuality and Log book	20
4	Scheme/ Organization of Project Report	20
	Total Marks	90

#### EXTERNAL EVALUATION OF PROJECT

		Marks for the Project
Sl. No	Components of Evaluation of Project	(Honours/
	3	Honours with Research)
		12 credits
1	Content and relevance of the Project,	
	Methodology, Quality of analysis,	50
	and Innovations of Research	
2	Presentation of the Project	50
3	Project Report (typed copy), Log	60
	Book and References	00
4	Viva-Voce	50
	Total Marks	210

#### 4. GENERAL FOUNDATION COURSES

• All the General Foundation Courses (3-credits) in Economics are with only theory component.

#### 4.1. INTERNAL EVALUATION

Sl. No.	Components of Internal Evaluation of a General	Internal Marks of a General Foundation Course of 3-credits in Economics	
	Foundation Course in Economics	4 Theory Modules	Open-ended Module
1	Test paper/ Mid-semester Exam	10	2
2	Seminar/ Viva/ Quiz	6	2
3	Assignment	4	1
		20	5
	Total	Total 25	

#### 4.2. EXTERNAL EVALUATION

External evaluation carries about 70% marks. Examinations will be conducted at the end of each semester. Individual questions are evaluated in marks and the total marks are converted into grades by the college based on 10-point grading system (refer section 5).

PATTERN OF QUESTION PAPER FOR GENERAL FOUNDATION COURSES

		Total No. of	No. of	Marks for	Ceilin
Duration	Type	Questions	Questions to be	Each	g of
			Answered	Question	Marks
	Short Answer	10	8 – 10	2	16
1.5 Hours	Paragraph/ Problem	5	4 – 5	6	24
	Essay	2	1	10	10
				Total Marks	50

#### 5. LETTER GRADES AND GRADE POINTS

- Mark system is followed for evaluating each question.
- For each course in the semester letter grade and grade point are introduced in 10-point indirect grading system as per guidelines given below.
- The Semester Grade Point Average (SGPA) is computed from the grades as a measure of the student's performance in a given semester.
- The Cumulative GPA (CGPA) is based on the grades in all courses taken after joining the programme of study.

• Only the weighted grade point based on marks obtained shall be displayed on the grade card issued to the students.

#### LETTER GRADES AND GRADE POINTS

Sl. No.	Percentage of Marks (Internal & External Put Together)	Description	Letter Grade	Grade Point	Range of Grade Points	Class
1	95% and above	Outstanding	О	10	9.50 – 10	First Class
2	Above 85% and below 95%	Excellent	A+	9	8.50 – 9. 49	with Distinction
3	75% to below 85%	Very Good	A	8	7.50 - 8.49	Distinction
4	65% to below 75%	Good	B+	7	6.50 - 7.49	
5	55% to below 65%	Above Average	В	6	5.50 – 6.49	First Class
6	45% to below 55%	Average	С	5	4.50 - 5.49	Second Class
7	35% to below 45% aggregate (internal and external put together) with a minimum of 30% in external valuation	Pass	Р	4	3.50 – 4.49	Third Class
8	Below an aggregate of 35% or below 30% in external evaluation	Fail	F	0	0 – 3.49	Fail
9	Not attending the examination	Absent	Ab	0	0	Fail

- When students take audit courses, they will be given Pass (P) or Fail (F) grade without any credits.
- The successful completion of all the courses and capstone components prescribed for the threeyear or four-year programme with 'P' grade shall be the minimum requirement for the award of UG Degree or UG Degree Honours or UG Degree Honours with Research, as the case may be.

#### 5.1. COMPUTATION OF SGPA AND CGPA

• The following method shall be used to compute the Semester Grade Point Average (SGPA): The SGPA equals the product of the number of credits (Ci) with the grade points (Gi) scored by a student in each course in a semester, summed over all the courses taken by a student in the semester, and then divided by the total number of credits of all the courses taken by the student in the semester.

i.e. SGPA (Si) = 
$$\Sigma i$$
 (Ci x Gi) /  $\Sigma i$  (Ci)

where Ci is the number of credits of the i<sup>th</sup> course and Gi is the grade point scored by the student in the i<sup>th</sup> course in the given semester. Credit Point of a course is the value obtained by multiplying the credit (Ci) of the course by the grade point (Gi) of the course.

$$SGPA = \sum$$
 of the credit points of all the courses  $\in$  as emester

Total credits  $\in$  that semester

ILLUSTRATION - COMPUTATION OF SGPA

Semeste	Course	Credi	Letter	Grade	Credit Point
r		t	Grade	point	(Credit x Grade)
I	Course 1	3	A	8	3 x 8 = 24
I	Course 2	4	B+	7	4 x 7 = 28
I	Course 3	3	В	6	3 x 6 = 18
I	Course 4	3	О	10	3 x 10 = 30
I	Course 5	3	С	5	3 x 5 = 15
I	Course 6	4	В	6	4 x 6 = 24
	Total	20			139
		SGF	139/20 = 6.950		

• The Cumulative Grade Point Average (CGPA) of the student shall be calculated at the end of a programme. The CGPA of a student determines the overall academic level of the student in a programme and is the criterion for ranking the students.

CGPA for the three-year programme in STCFYUGP shall be calculated by the following formula.

$$CGPA = \sum$$
 of the credit points of all the courses  $\in$  six semesters

Total credits  $\in$  six semesters (133)

CGPA for the four-year programme in STCFYUGP shall be calculated by the following formula.

$$CGPA = \sum$$
 of the credit points of all the courses  $\in$  eight semesters

Total credits  $\in$  eight semesters (177)

• The SGPA and CGPA shall be rounded off to three decimal points and reported in the transcripts.

Based on the above letter grades, grade points, SGPA and CGPA, the University shall issue the transcript for each semester and a consolidated transcript indicating the performance in all semesters.

Major Courses in Economics

Programme	B.A. Economics Hono	B.A. Economics Honours							
Course Title	PRINCIPLES OF EC	PRINCIPLES OF ECONOMICS							
Type of Course	Major	Major							
Semester	I	I							
Academic Level	100 - 199	100 - 199							
Course Details	Credit	Lecture	Tutorial	Practical	Total Hours				
		per week	per week	per week					
	4	3	-	2	75				
Pre-requisites	Basic Economics Course of 0 – 99 level								
Course Summary	This course explores important principles, basic theories and models, various								
	economic systems and	other fundam	ental aspects o	of economics.					

## COURSE OUTCOMES (CO):

CO	CO Statement	Cognitive	Knowledge	Evaluation
		Level*	Category#	Tools used
CO1	Understand the basic principles of economics and its real-world	U	С	Instructor-created exams / Quiz
	applications.			
CO2	Develop and practice the skill of	Ap	P	Practical
	thinking like an economist.			Assignment /
				Observation of
				Practical Skills
CO3	Help the beginning student master	U	P	Seminar
	the principles essential for			Presentation /
	understanding the economizing			Group Discussion
	problem, specific economic issues,			
	and policy alternatives.			
CO4	Understand and apply the economic	Ap	С	Instructor-created
	perspective and reason accurately			exams / Home
	and objectively about economic			Assignments
	matters.			
CO5	Instil in students a fascination	U	F	Writing
	with both the functioning of the			assignments
	economy and the power and breadth			
CO(	of economics	Α	D	Vine Vine
CO6	Demonstrate critical thinking and	Ap	Р	Viva Voce
	problem-solving skills by applying			
	the acquired knowledge to address			
	complex economic challenges in			
	the contemporary world.			

<sup>\* -</sup> Remember (R), Understand (U), Apply (Ap), Analyse (An), Evaluate (E), Create (C)

<sup># -</sup> Factual Knowledge(F) Conceptual Knowledge (C) Procedural Knowledge (P) Metacognitive Knowledge (M)

#### DETAILED SYLLABUS:

Module Module	Unit	Content	Hrs	Marks			
		Basic Principles of Economics	10	21			
	How	People Make Decisions					
	1	People Face Trade-Offs	1				
	2 The Cost of Something Is What You Give						
	3	Rational People Think at the Margin	1				
	4	People Respond to Incentives	1				
	How	People Interact					
	5	Trade Can Make Everyone Better Off	1				
I	6	Markets Are Usually a Good Way to Organize Economic Activity	1				
	7	Governments Can Sometimes Improve Market Outcomes	1				
		the Economy as a Whole Works	1				
	8	A Country's Standard of Living Depends on its Ability to	1				
	9	Produce Goods and Services Prices Rise When the Government Prints Too Much Money	1				
	10	Society Faces a Short-Run Trade-Off between Inflation and Unemployment	1				
		Thinking like an Economist	10	21			
	11	The Economist as Scientist: The Scientific Method: Observation, Theory, and More Observation, The Role of Assumptions, Economic Models, The Circular-Flow Diagram, The Production Possibilities Frontier, Microeconomics and Macroeconomics;	4				
II	12	The Economist as Policy Adviser: Positive versus Normative Analysis, Why Economists' Advice Is Not Always Followed;	3				
	13	Why Economists Disagree: Differences in Scientific Judgments, Differences in Values, Perception versus Reality	3				
		Limits, Alternatives, and Choices	10	21			
	14	<b>The Economic Perspective</b> : Scarcity and Choice, Purposeful Behaviour, Marginal Analysis: Comparing Benefits and Costs	3				
III	15	Individual's Economizing Problem	2				
	16	Society's Economizing Problem	2				
	17	Unemployment, Growth, and the Future: A Growing Economy, Present Choices and Future Possibilities, A Qualification: International Trade	3				
IV		The Market System	15	35			
	18	<b>Economic Systems</b> : Laissez-Faire Capitalism, The Command System, The Market System	2				
	19	Characteristics of the Market System: Private Property, Freedom of Enterprise and Choice, Self-Interest, Competition, Markets and Prices, Technology and Capital Goods, Specialization, Use of Money, Active but Limited Government	2				

	20	Five Fundamental Questions: What Will Be Produced?	4	
		How Will the Goods and Services Be Produced? Who Will Get the Output? How Will the System Accommodate Change? How Will the System Promote Progress?		
	21	<b>The "Invisible Hand"</b> : The Demise of the Command Systems, The Incentive Problem	3	
	22	How the Market System Deals with Risk: The Profit System, Shielding Employees and Suppliers from Business Risk, Benefits of Restricting Business Risk to Owners	4	
		Flexible Learning Unit	30	
		<b>Discussion</b> based on different economic systems prevailing in the world		
V		<b>Practical Assignments</b> on economic decision making in different economies in the world		
		<b>Seminar</b> on the influence of institutions, regional cooperations, blocks and international cartels on economic policies		

#### REFERENCE:

- 1. Mankiw, N. G. (2021). *Principles of Economics*, 9TH EDITION, Cengage Learning. (Module 1 and Module 2)
- 2. Stiglitz, J. E., & Walsh, C. E. (2006). Economics. W. W. Norton. (Module 2)
- 3. McConnell, C. R., Brue, S. L., & Flynn, S. M. (2015). *Economics: Principles, Problems, and Policies*. TWENTIETH EDITION, McGraw-Hill Education. (**Module 3 and Module 4**)

#### **ADDITIONAL READINGS**

- 1. Team, C., & Press, O. U. (2017). The economy: Economics for a Changing World. Oxford University Press, USA.
- 2. Klein, G., & Bauman, Y. (2010). The cartoon Introduction to economics: Volume One: Micro- economics. Macmillan.
- 3. Sowell, T. (2015). Basic Economics: A Common Sense Guide to the Economy, FIFTH EDI- TION, Basic Books, New York.
- 4. Wheelan, C. (2010). Naked Economics: Undressing the Dismal Science (Fully Revised and Updated). W. W. Norton & Company.

#### MAPPING OF COS WITH PSOS:

	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6	PO1	PO2	PO3	PO4	PO5	PO6	PO7
CO 1	3	-	-	-	ı	3	3	1	-	ı	1	-	-
CO 2	-	2	2	-	3	2	2	1	3	1	-	-	1
CO 3	-	3	2	-	1	1	1	2	-	ı	-	3	-
CO 4	-	3	-	-	ı	2		ı	-	ı	2	-	ı
CO 5	-	-	-	-	2	3	ı	ı	-	ı	3	-	ı
<b>CO 6</b>	-	3	2	-	2	2	-	-	-	-	-	-	2

## **CORRELATION LEVELS:**

Level	Correlation	
-	Nil	
1	Slightly / Low	
2 Moderate / Medium		
3	Substantial / High	

#### **ASSESSMENT RUBRICS:**

Quiz / Assignment/ Viva Voce/ Discussion / Seminar
Internal Exam
Practical Assignments (20%)
Final Exam (70%)

#### MAPPING OF COS TO ASSESSMENT RUBRICS:

	Internal Exam	Quiz / Assignment/ Viva Voce/ Discussion / Seminar	Practical Assignment	End Semester Examination
CO 1	<b>√</b>	<b>~</b>		<b>√</b>
CO 2	✓		✓	✓
CO 3	✓	<b>√</b>		✓
CO 4	✓	✓		✓

CO 5	✓	✓	
CO 6		✓	

Programme	B.A. Economics Honours
Course Title	BUDGET ANALYSIS

Type of Course	Major					
Semester	II					
Academic Level	100 - 199					
Course Details	Credit	Lecture per	Tutorial	Practical	Total Hours	
		week	per week	per week		
	4	3	-	2	75	
Pre-requisites	Basic Economics Course of 0 – 99 level					
Course Summary	This course explores important concepts, documents and other fundamental					
_	aspects of budget proce	ss with referen	nce to Central	Budget in Indi	a.	

CO Statement	Cognitive Level*	Knowledge Category#	Evaluation Tools used
Understand the basic concepts and	U	С	Instructor-
documents of budgeting.			created exams /
			Quiz
Develop and practice the skill of	Ap	P	Practical
interpretation of budget.			Assignment /
			Observation of
			Practical Skills
Understand the roles and responsibilities	U	P	Seminar
of various stakeholders in the budget			Presentation /
process.			Group
			Discussion
Appreciate the insights of public	Ap	C	Instructor-
finance in the real world			created exams /
			Home
			Assignments
Develop critical thinking about policy	Ap	P	Viva Voce
issues by emphasizing the links			
between economic analysis and current			
political issues.			
	Understand the basic concepts and documents of budgeting.  Develop and practice the skill of interpretation of budget.  Understand the roles and responsibilities of various stakeholders in the budget process.  Appreciate the insights of public finance in the real world  Develop critical thinking about policy issues by emphasizing the links between economic analysis and current	Understand the basic concepts and documents of budgeting.  Develop and practice the skill of interpretation of budget.  Understand the roles and responsibilities of various stakeholders in the budget process.  Appreciate the insights of public finance in the real world  Develop critical thinking about policy issues by emphasizing the links between economic analysis and current	Understand the basic concepts and documents of budgeting.  Develop and practice the skill of interpretation of budget.  Understand the roles and responsibilities of various stakeholders in the budget process.  Appreciate the insights of public finance in the real world  Develop critical thinking about policy issues by emphasizing the links between economic analysis and current

<sup>\* -</sup> Remember (R), Understand (U), Apply (Ap), Analyse (An), Evaluate (E), Create (C)
# - Factual Knowledge(F) Conceptual Knowledge (C) Procedural Knowledge (P) Metacognitive
Knowledge (M)

DETAILED			TT	Manla
Modul e	Unit	Content	Hrs	Marks
		Introduction to the Budget	10	21
	1	Budget: Definition, Budget in India	1	
	2	Features of Budget: Budget is prepared on Cash Basis,	3	
		Rule of Lapse, Realistic Estimation, Budget to be on		
		Gross/Net Basis, Form of Estimates to correspond to		
		Accounts, Estimates to be on Departmental Basis		
	3	Scope of Budget: Budget Estimates, Revised Estimates,	3	
Ι		Actuals of the year preceding the current year,		
		Consolidated Fund of India, Contingency Fund of India		
		and the Public Account, Revenue account and Capital		
		account	_	
	4	<b>Budget documents:</b> Annual Financial Statement (AFS),	3	
		Demands for Grants (DG), Finance Bill, Statements		
		mandated under FRBM Act, Expenditure Budget, Receipt		
		Budget, Expenditure Profile	10	21
	5	Roles and Responsibilities	10	21
	3	Role of Legislature: Role of Parliament, President's	2	
		Approval, Summary for The President, Summary for The Cabinet		
	6	Budget Presentation and Bills: Budget Presentation,	2	
		General Discussions, Cut-Motions, Guillotine,	2	
		Appropriation Bill, Finance Bill, Vote on Account		
	7	<b>Role of Executive:</b> Role of The Executive in The Budget	2	
II		Process, Role of Ministry of Finance, Role of Budget		
		Division, Department of Expenditure, Administrative		
		Ministries, Financial Advisers		
	8	Role of Constitutional Authorities: Controller General	2	
		of Accounts, Niti Aayog, Finance Commission, Reserve		
		Bank of India, Comptroller and Auditor General of India		
	9	Parliamentary Control: Estimates Committee,	2	
		Department Related Standing Committees, Public		
		Accounts Committee	4.0	
	1.0	Budget Process	10	21
	10	Budget Circular	1	
	11	<b>Estimates of Receipts:</b> Revenue Receipts, Estimates of Capital Receipts	1	
	12	Estimates of Expenditure: General Guidelines for	2	
		Preparation of Estimates of Expenditure, Information for		
		Pre-Budget Discussions, Pre-Budget Discussions &		
III		Finalization of Provisional Estimates		
	13	Provisions for North Eastern Region and Sikkim	1	
	14	Special Instructions for the Composite Demand for	1	
		Civil 'Pensions': Arrangements for submission of		
		estimates, Compassionate Fund, Central Government		
l		Employees' Insurance Scheme		

15	<b>Estimates to be included in Demands for Grants</b>	1	
	Controlled by Budget Division		

	16	Instructions related to allocation for SC/ST sub-	1				
		component					
	17	<b>Disclosures under FRBM Act:</b> Guarantees given by the	2				
		Government, Tax Revenues raised but not realized, Arrears					
		of Non -Tax Revenues, Asset Register					
		Budget Finalization	15	35			
	18	Budget Activities	1				
	19	<b>Timelines for Budget Activities</b>	2				
	20	Scrutiny of Statement of Budget Estimates (SBE):	5				
IV		Centre's Expenditure, Centrally Sponsored Schemes and					
_ ,		other Transfers, Expenditure Type (voted expenditure,					
		charged expenditure, recovery, receipt)					
	21	Outcome Budget / Output-Outcome Monitoring	2				
		Framework (OOMF)					
	22	Budget in Parliament: Lok Sabha, Rajya Sabha	5				
		Flexible Learning Unit	30				
		Analyze the budget allocations for specific sectors (e.g.,					
		education, healthcare, infrastructure) over time. Look for					
		trends and changes.					
		Consider how the government's commitment to					
		addressing various issues is reflected in budget allocations					
$\mathbf{V}$		Discuss the impact of budget decisions on different					
,		groups, regions, and sectors					
		Research the concept of outcome budgeting, which					
		emphasizes efficient resource utilization and fiscal					
		discipline					
		Discuss pressures affecting public sector budgeting,					
		including the quantity of money available and how it's					
		allocated					

- 1. Budget Manual 2022, Ministry of Finance, Government of India (All modules) ADDITIONAL READINGS
  - 1. Shim, J. K., & Siegel, J. G. (2008). Budgeting basics and beyond. Wiley.
  - 2. Burtt, E. S., Fleming, P. H., Clark, M. B., & Valuation, L. C. O. D. O. F. M. a. R. (1988). *Fi- nancial Budget Manual*.

# MAPPING OF COS WITH PSOS:

	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6	PO1	PO2	PO3	PO4	PO5	PO6	PO7-
CO 1	3	-	-	-	-	-	3	-	-	-	1	-	-
CO 2	-	-	-	3	1	-	2	1	3	-	-	-	1
CO 3	-	1	1	1	3	-	1	2	1	1	-	3	1
CO 4	-	-	-	3	3	-		-	-	-	2	-	-
CO 5	_	2	-	3	3	-	-	-	-	-	-	-	1

## **CORRELATION LEVELS:**

Level	Correlation
-	Nil
1	Slightly / Low
2	Moderate / Medium
3	Substantial / High

## **ASSESSMENT RUBRICS:**

Quiz / Assignment/ Viva Voce/ Discussion / Seminar
Internal Exam
Practical Assignments (20%)
Final Exam (70%)

	Internal Exam	Quiz / Assignment/ Viva Voce/ Discussion / Seminar	Practical Assignment	End Semester Examination
CO 1	<b>√</b>	<b>√</b>		✓
CO 2	<b>√</b>		<b>√</b>	✓
CO 3	<b>√</b>	<b>\</b>		✓

CO 4	✓	✓		<b>√</b>
CO 5		✓	✓	

Programme	B.A. Economics Honours
Course Title	ANALYTICAL TOOLS FOR ECONOMICS I

Type of Course	Major				
Semester	III				
Academic Level	200 - 299				
Course Details	Credit	Lecture	Tutorial	Practical	Total Hours
		per week	per week	per week	
	4	4	-	-	60
Pre-requisites	Basic Economics Cour	se of $0 - 99  16$	evel		
Course Summary	Students shall acquire in-depth knowledge and able to explain the concepts of				
	sets, functions, Diff	erentiation,	Integration a	and their ap	plications in
	Economics.				

# Course Outcomes (CO):

СО	CO Statement	Cognitive Level*	Knowledge Category#	Evaluation Tools used
CO1	To Understand the basic concept of set theory and functions	U	C	Instructor- created exams / Quiz
CO2	Apply differentiation in solving economic problems	Ap	Р	instructor created exams/Assignme nts
CO3	Understand integration in solving economic problems	U	Р	Seminar Presentation / instructor created exams
CO4	Analyse relationship between economic variables mathematically, analyze, optimize and interpret them	An	Р	Instructor- created exams / Home Assignments
CO5	Equip students to identify economic problems, investigate relevant facts, and formulate logical solutions	Ap	F	Assignment s/discussion s

<sup>\* -</sup> Remember (R), Understand (U), Apply (Ap), Analyse (An), Evaluate (E), Create (C)

<sup># -</sup> Factual Knowledge(F) Conceptual Knowledge (C) Procedural Knowledge (P) Metacognitive Knowledge (M)

Module	Uni	Content	Hrs	Marks
I	t	Set theory and Functions	10	16
•	1	Set theory: concepts, set operations, relations,	4	1
	1	functions and their properties	,	
	2	Elementary types of functions – linear, quadratic,	3	
	3	1		
	4	algebraic functions		_
TT	4	Applications of functions in Economics	2	26
II		Differential Calculus	18	36
	5	Limits and continuity of functions	2	
	6	Meaning of Derivative, Rules, Derivative of single variable and multi variable (except trigonometric function)	2	
	7	Derivatives of implicit functions and Inverse functions	2	
	8	Rate of change- Slope of a curve	2	
	9	Partial Differentiation	2	
	10	Marginal concepts related to Economic functions, Elasticity	2	
	11	Second order Derivatives	2	
	12	Conditions for Optimisation, Single and Multivariate Optimisation	2	
	13	Application in consumption and production decisions	2	
III		Integral Calculus	10	16
	14	Meaning of integral, The Definite Integral, Rules of Integration, Integration by substitution	3	
	15	Integration by parts	2	
	16	Area under a curve-estimation of producers and consumers surplus.	1	
	17	The First and Second Fundamental Theorems of Calculus	2	
	18	The Mean Value Theorem for integrals.	2	
IV		Linear Models and Matrix	10	30
	19	Matrix: Meaning, Types and operations	2	
	20	Linear Models and Matrix Algebra and their	3	
		Applications in Economics		
	21	Rank of a Matrix- Solving linear equations using	2	
		Matrix Inverse		
	22	Determinants, Properties of Determinants and Cramer's Rule and their applications	3	

V		Application of mathematical tools in	12	
	econor	mics		
	1	Assignment		
	2	test		
	3	seminar /quiz		

- 1. Chiang, A and Wainwright, K. (2005). Fundamental methods of mathematical economics. Boston, Mass. McGraw-Hill/Irwin. EC (1262)-18.08.202219(**Module 1,2,3,4&5**)
- 2. Hoy, M., Livernois, J., McKenna, C., Rees, R., Stengos, T. (2001). Mathematics for Economics, Prentice-Hall India. (**Module 1,2,3,4&5**)
- 3. Sydsaeter and P. Hammond, Mathematics for Economic Analysis, Pearson Educational Asia: Delhi, 2002. (**Module 1,2,3,4&5**)
- 4. Introduction to Mathematical Economics, Third edition, Edward T Dowling, Schaum's outline series, McGraw Hill (Module 1,2,3,4&5)

#### **ADDITIONAL READINGS**

- 1. A.Chiang & K.Wainwright: Fundamental Methods of Mathematical Economics, McGraw Hill.
- 2. E. Silberberg & Suen: The Structure of Economics, McGraw Hill
- 3. Simon & Blume, Mathematics for Economists, Viva Books.
- 4. Rudin W.: Principles of Mathematical Analysis, McGraw-Hill
- 5. D. Varberg, E. J. Purcell, S. E. Rigdon. Calulus, Eighth Edition, Prentice Hall.

#### MAPPING OF COS WITH PSOS:

	PSO1	PSO2	PSO3	PSO4	PSO5	PO1	PO2	PO3	PO4	PO5	PO6	PO7
CO 1	3	-	-	-	-	3	-	-	-	1	-	-
CO 2	-	-	-	1	-	2	1	3	-	-	-	1
CO 3	-	-	-	1	-	1	2	-	-	-	3	-
CO 4	-	-	-	1	-		-	-	-	2	-	-
CO 5	-	2	-	-	-	-	-	-	-	2	-	-

#### **CORRELATION LEVELS:**

Level	Correlation
-	Nil
1	Slightly / Low
2	Moderate / Medium
3	Substantial / High

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	ווספעוספ		NUDINI	

Quiz/Viva Voce/ Discussion / Seminar
Internal Exam
Assignments (20%)
Final Exam (70%)

	Internal Exam	Quiz / Viva Voce/ Discussion / Seminar	Assignment	End Semester Examination
CO 1	✓	<b>✓</b>		<b>√</b>
CO 2	√		✓	✓
CO 3	✓	✓		<b>√</b>
CO 4	✓	✓		✓
CO 5		✓	✓	

Programme	B.A. Economics Honours						
Course Title	<b>EVOLUTION OF E</b>	EVOLUTION OF ECONOMIC THEORIES					
Type of Course	Major	Major					
Semester	III						
Academic Level	200 - 299	200 - 299					
Course Details	Credit	Lecture	Tutorial	Practical	Total Hours		
		per week	per week	per week			
	4	4	-	-	60		
Course Summary	This course aims to explore the key ideas of lasting value in the history of economic theory.						

СО	CO Statement	Cognitive Level*	Knowledge Category#	Evaluation Tools used
	Understand knowledge of basic economic principles behind various economic issues	U	С	Instructor-created exams / Quiz
CO2	Understand the origins of key economic concepts and models	U	С	Seminar Presentation / Group Discussion
CO3	Analyze the evolution of major ideas through time	An	С	Seminar Presentation / Group Discussion
	Understand the influence and value of different writers and their contributions	U	P	Instructor-created exams / Home Assignments
	Understand theories and ideas studied within the context of the time	U	С	Practical Assignment / Observation of Practical Skills

Modul	Unit	Content	Hrs	Marks					
e									
I		People and Markets (Microeconomics) – Market							
		mechanism, Competition, Price and Utility							
	The I	The Invisible Hand of the Market							
	1	From Mercantilism to Market Economy	1						
	2	Monopolies and the Cournot Point	1						
	Comp	petition in Theory and in Practice							
	3	From "Perfect Competition" to Dynamic Competition	1						

<sup>\* -</sup> Remember (R), Understand (U), Apply (Ap), Analyse (An), Evaluate (E), Create (C) # - Factual Knowledge(F) Conceptual Knowledge (C) Procedural Knowledge (P) Metacognitive Knowledge (M)

	4	Competition Policy: Harvard versus Chicago	1				
	5	Natural Monopolies and Government Market Access	1				
		Barriers		22			
	Price	s, Costs and Profits					
	6	Alfred Marshall's Scissor Theorem	1				
	7 The Laws of Large-Scale Production and Their Limits						
	8 Turgot's Law of Returns and Marshall's Producers' Surplus 9 Trade Margins and Speculation						
	10	Fair Prices and Government Intervention into Markets	1				
	The U	Utility and Real Value of Commodities:					
	11	The Classical Paradox of Value and Gossen's Laws,	1				
	12	Pareto Optimality and Distribution of Income,	1				
	13	Consumer Sovereignty and Merit Goods	1				
II	Pec	ople and Markets (Microeconomics) –Market Failure,	10	17			
		Wage and Capital					
	14	Causes of Market Failure: Should the State Act as Night Watchman? Natural Collective Goods, The Non-					
		Applicability of the Exclusion Principle, Externalities and Environmental Problems, Are Environmental Taxes and Charges Unjust? Voluntary Negotiations: The Coase	4				
	4.5	Theorem, The Environment and Politics					
	15	Fair Wages and the Right to Work: Thunen's Equation for a Natural Wage, Karl Marx's Labour Theory of Value, Problems of Socialism, The Pareto Curve, Minimum Wages and Maximum Income Limits? Productivity and	3				
	1.0	Wage Rates		_			
	16	The Mystery of Capital and Interest: Interest Rates and Bans on Interest, Who do Capital Gains Belong to? Bohm-Bawerk's Third Reason, Paradoxes of Capital Theory, Natural Interest Rates and Monetary Policy	3				
III	Cri	ses of Market Economies (Macroeconomics) – Money	13	21			
		and Business Cycle		_			
	17	<b>How Does Money Enter the Economy?</b> From Shell Money to the Peel Banking Act, Money Supply and Price Levels	3				
	18		5	1			
	18	Business Cycles and Shortages in Demand: Francois	5				
	18		5				
	18	<b>Business Cycles and Shortages in Demand:</b> Francois Quesnay's Tableau Economique, The Say Theorem,	5				
	18	<b>Business Cycles and Shortages in Demand:</b> Francois Quesnay's Tableau Economique, The Say Theorem, Marx's Theory of Crises and the Theory of the Purchasing	5				
		Business Cycles and Shortages in Demand: Francois Quesnay's Tableau Economique, The Say Theorem, Marx's Theory of Crises and the Theory of the Purchasing Power of Wages, The Keynesian Revolution  Why Do Business Cycles Fluctuate? Knife-Edge Growth, Aftalion's Use of Fire as an Example: The		_			
		Business Cycles and Shortages in Demand: Francois Quesnay's Tableau Economique, The Say Theorem, Marx's Theory of Crises and the Theory of the Purchasing Power of Wages, The Keynesian Revolution  Why Do Business Cycles Fluctuate? Knife-Edge Growth, Aftalion's Use of Fire as an Example: The Accelerator Principle, Business Cycle Policy: Is it					
		Business Cycles and Shortages in Demand: Francois Quesnay's Tableau Economique, The Say Theorem, Marx's Theory of Crises and the Theory of the Purchasing Power of Wages, The Keynesian Revolution  Why Do Business Cycles Fluctuate? Knife-Edge Growth, Aftalion's Use of Fire as an Example: The Accelerator Principle, Business Cycle Policy: Is it Possible to Master the Chaos? Business Cycle Theory at a		-			
		Business Cycles and Shortages in Demand: Francois Quesnay's Tableau Economique, The Say Theorem, Marx's Theory of Crises and the Theory of the Purchasing Power of Wages, The Keynesian Revolution  Why Do Business Cycles Fluctuate? Knife-Edge Growth, Aftalion's Use of Fire as an Example: The Accelerator Principle, Business Cycle Policy: Is it Possible to Master the Chaos? Business Cycle Theory at a Political Level, The Influence of Politicians on the					
IV	19	Business Cycles and Shortages in Demand: Francois Quesnay's Tableau Economique, The Say Theorem, Marx's Theory of Crises and the Theory of the Purchasing Power of Wages, The Keynesian Revolution  Why Do Business Cycles Fluctuate? Knife-Edge Growth, Aftalion's Use of Fire as an Example: The Accelerator Principle, Business Cycle Policy: Is it Possible to Master the Chaos? Business Cycle Theory at a		17			

	20	Inflation and Unemployment: The Quantity Theory, The Controversy about the Philips Curve, The Bullionist Controversy  Growth and Wealth: In Praise of Saving, Shortages of	4	
		Capital and Underdevelopment, The Golden Rule of Accumulation, The Connection Between Interest Rates and Growth Rates		
	22	<b>Limits of Economic Growth:</b> The Oil Price Shocks of the 1970s, Are the World's Raw Materials Running Out? The "Robber-Booty" Problem and the Hotelling Rule, Is there any Justice for Future Generations?	4	
V		MODERN ECONOMIC THOUGHT	12	
		<b>Discussion</b> based on reports about economic problems		
		such as high unemployment or rising government debt.		
		<b>Practical Assignments</b> to trace the evolution of major		
		ideas through time		
		<b>Seminar</b> on the influence and value of different writers		
		and their contributions to the development of modern		
		economic thought		

 Van Suntum, U. (2005). The Invisible Hand: Economic Thought Yesterday and Today. Springer Science & Business Media. (All modules)

## **ADDITIONAL READINGS**

- 1. Haney, L. H. 1. (2018). History of Economic Thought; A critical account of the origin and de-velopment of the economic theories of the leading thinkers in the leading nations. Franklin Classics.
- 2. Blaug, M. (1997). Economic theory in retrospect. Cambridge University Press.
- 3. Wolff, R. D., & Resnick, S. A. (2012). Contending economic theories: Neoclassical, Keyne- sian, and Marxian. MIT Press.
- 4. Buchholz, T. G. (2007). New Ideas from Dead Economists: An Introduction to Modern Eco-nomic Thought. Penguin.

# MAPPING OF COS WITH PSOS:

	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6	PO1	PO2	PO3	PO4	PO5	PO6	PO7
CO 1	3	-	1	-	2	1	3	ı	1	-	1	1	1
CO 2	3	-	1	-	1	3	2	1	3	-	-	i	1
CO 3	-	-	1	-	1	2	1	2	1	-	-	3	1
CO 4	-	-	ı	2	1	3		ı	ı	-	2	ı	ı
CO 5	_	-	2	2	-	-	-	-		-	2	-	- 1

## **CORRELATION LEVELS:**

Level	Correlation
-	Nil
1	Slightly / Low
2	Moderate / Medium
3	Substantial / High

## **ASSESSMENT RUBRICS:**

Quiz / Assignment/ Viva Voce/ Discussion / Seminar
Internal Exam
Practical Assignments (20%)
Final Exam (70%)

	Internal Exam	Quiz / Assignment/ Viva Voce/ Discussion / Seminar	Practical Assignment	End Semester Examination
CO 1	✓	<b>~</b>		✓
CO 2	√			✓
CO 3	√	<b>✓</b>		✓
CO 4	√	✓		✓
CO 5		✓		

Programme	B.A. Economics Honours									
Course Title	INTERMEDIATE MICROECONOMICS									
Type of Course	Major									
Semester	IV 0									
Academic Level	200 - 299									
Course Details	Credit	Lecture	Tutorial	Practical	Total					
		per week	per week	per week	Hours					
	4 4 60									
Pre-requisites	Basic Economics	-		-						
Course Summary	conditions, optimisa	This course focuses on the behaviour of consumers under certain conditions, optimisation in production, different conditions prevailing in competitive markets and the choices of a competitive firm.								

C	OURSE OUTCOMES (CO):			
СО	CO Statement	Cognitive Level*	Knowledg e Category#	Evaluation Tools used
CO 1	Understand the basic elements of consumption and production theories.	U	С	Instructor- created exams / Practical Assignment
CO 2	Analyze the consumer choice under different conditions of preferences.	U	F	Writing assignments / Quiz
CO 3	Apply the economic perspective and reason accurately in relation to different competitive market conditions.	An	Р	Observation of Practical Skills / Group Discussion
CO 4	Solve and interpret stylized problems based on microeconomic models.	Ap	Р	Observation of Practical Skills / Home Assignments
CO 5	Use microeconomic models to evaluate real-world microeconomic phenomena and issues.	An	Р	Group Discussion / Instructor- created exams

- \* Remember (R), Understand (U), Apply (Ap), Analyse (An), Evaluate (E), Create (C)
- # Factual Knowledge(F) Conceptual Knowledge (C) Procedural Knowledge (P) Metacognitive Knowledge (M)

Modul e	Unit	Content	Hrs	Marks
		Choice Under Certainty		
I		10	18	
	1	Optimal Choice determination: Budget Line – Marginal Rate of Substitution;	2	
	2	Consumer's Equilibrium using indifference curves -	2	
	3	Interior Optimum - Boundary Optimum.	2	
	4	Optimisation: Perfect Substitutes and Perfect Complements.	2	_
	5	Estimating Utility Functions and implication of the MRS condition.	2	
II		Comparative Statics in Consumer Theory	14	24
	6	Offer Curves: Income Offer Curves- Engel Curves – Normal, Inferior and Giffen Goods –	3	
	7	Perfect Substitutes and Perfect Complements – Homothetic and Quasilinear preferences - Price Offer Curves:	2	
	8	Perfect Substitutes and Perfect Complements – Discrete Goods – Inverse Demand Function	1	
	9	Revealed Preference Approach: WARP and SARP;	2	
	10	The total change in demand: The substitution effect and income effect with suitable examples.	2	
	11	Rates of changes	1	
	12	2		
	13	1	1	
III		Optimisation In Production	12	28
	14	Short run and long run production function- Cost curves-	5	

		Profit Maximisation in the Short Run and Long Run.		
	15	Cost Minimisation - Returns to Scale and the Cost Function	5	
	16	Cobb Douglas Production Function	2	
IV		The Analysis of Competitive Markets	12	28
	17	Short run and long run Equilibrium in perfectly competitive firm and industry	3	
	18	Monopoly – linear demand curve – Mark up pricing – Inefficiency of monopoly-Dead Weight Loss-	2	
	19	Price Discrimination-bundling-Two-part tariffs	2	
	20	Monopolistic Competition-Product differentiation- selling cost	2	
	21	Oligopoly-collusive versus non collusive oligopoly-	2	
	22	Kinked demand curve model.	1	
V	Un	derstanding Market Structures: A practical approach	12	
		Discussion based on different market structures in the world		
		Seminars to analyse changing equilibrium conditions under different market structures.		
		Practical Assignments to compare and relate market of different products with different market structures.		

- 1. H.R Varian (2009), Intermediate Microeconomics- A Modern Approach. W W Norton & Co
- **2.** Pindyck, R. and Rubinfeld, D. Microeconomics (2017, Ninth Edition). ISBN: 978-1-292-21-331-6.

#### **ADDITIONAL READINGS**

- 1. Dominick Salvatore (2013): Microeconomics: Theory and Applications- 5thEdition, Oxford
- 2. A Koutsoyiannis (1979): Modern Microeconomics- 2ndEdition, Macmillan
- 3. Gregory Mankiw (2006) Principles of Microeconomics, (Paperback) South Western
- 4. Robert Y Awh (1976): Microeconomics: Theory and Applications- John Wiley & Sons.
- 5. Watson and Getz (2004): Price Theory and its Uses- 5thEdition, AITBS Publishers and Distributors.

#### MAPPING OF COS WITH PSOS:

	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6	PO1	PO2	PO3	PO4	PO5	PO6	PO7
CO 1	3	1	-	-	-	-	3	1	1	-	-	-	-
CO 2	3	1	-	1	-	1	-	-	1	-	2	-	-
CO 3	3	2	-	1	-	2	-	-	2	1	3	-	-
CO 4	-	3	2	1	1	1	-	-	-	-	-	-	2
CO 5	2	1	-	1	-	-	-	-	-	-	-	1	2

#### **CORRELATION LEVELS:**

Level	Correlation
-	Nil
1	Slightly / Low
2	Moderate / Medium
3	Substantial / High

#### **ASSESSMENT RUBRICS:**

- Quiz / Assignment/ Viva Voce/ Discussion / Seminar
- Internal Exam
- Practical Assignments (20%)
- Final Exam (70%)

	Internal Exam	Quiz / Assignment/ Viva Voce/ Discussion / Seminar	Practical Assignment	End Semester Examination
CO 1	✓	✓		✓
CO 2	<b>√</b>	<b>√</b>		✓
CO 3	<b>√</b>	<b>√</b>	<b>√</b>	<b>√</b>
CO 4	✓	✓		✓
CO 5		✓	✓	

Programme	B.A. Economics Honours				
Course Title	INTERMEDIATE	MACROECO	ONOMICS		
Type of Course	Major				
Semester	IV				
Academic	200 - 299				
Level					
Course Details	Credi	Lecture	Tutorial	Practical	Total
	t	per week	per week	per week	Hours
	4	4	-	-	60
Pre-requisites	Basics of Economics				
Course	This course explores	important co	ncepts, basic t	heories and mo	odels and
Summar	other fundamental macro aspects of economics.				
у					

CO	CO Statement	Cognitive Level*	Knowledge Category#	Evaluation Tools used
CO1	Understand the important concepts of economics and its real-world applications.	U	C	Instructor- created exams / Quiz
CO2	Develop and practice the skill of thinking like an economist.	Ap	Р	Practical Assignment / Observation of Practical Skills
CO3	Master the macroeconomic aspects essential for understanding the economic climate, specific economic issues, and policy alternatives.	U	Р	Seminar Presentation / Group Discussion
CO4	Understand and apply the macroeconomic perspective and reason accurately and objectively about economic matters.	Ap	С	Instructor- created exams / Home Assignments
CO5	Develop curiosity among students to appreciate the functioning of the economy and the power and breadth of economics	U	F	Writing assignments/Vi va Voce

<sup>\* -</sup> Remember (R), Understand (U), Apply (Ap), Analyse (An), Evaluate (E), Create (C) # - Factual Knowledge(F) Conceptual Knowledge (C) Procedural Knowledge (P) Metacognitive Knowledge (M)

Module	Unit					
I		Classical Macroeconomics	12	27		
	1	The Classical Revolution, Production, Employment: Labor Demand, Labor Supply,	2			
	2 Equilibrium Output and Employment: The Determinants of Output and Employment, Factors That Do Not Affect Output,					
	3	2				
	4	Theory, The Classical Aggregate Demand	3			
		Curve, The Classical Theory of the Interest				
		Rate,				
	5	Policy Implications of the Classical Equilibrium Model: Fiscal Policy, Monetary Policy	3			
II		The Keynesian System	12	22		
	6	The Problem of Unemployment, The Simple Keynesian Model: Conditions for Equilibrium Output,	2			
	7 The Components of Aggregate Demand: Consumption, Investment, Government Spending and Taxes,					
	8 Determining Equilibrium Income, Changes in Equilibrium Income,		1			
	9	9 Fiscal Stabilization Policy,				
	Exports and Imports in the Simple Keynesian Model Money in the Keynesian System: Interest Rates and Aggregate Demand,		2			
	11	The Keynesian Theory of the Interest Rate,	2			
	The Keynesian Theory of Money Demand, The Effects of an Increase in the Money Supply					
III		The orthodox Keynesian school	12	25		
	13	The IS-LM model for a closed economy: Money Market	2			
		Equilibrium: The LM Schedule, Product Market Equilibrium:				
	14	The IS Schedule, The IS and LM Schedules Combined,	2			
		Underemployment equilibrium in the Keynesian model,				
	15					
	16	Monetary Influences: Shifts in the LM Schedule, Real	1			
		Influences:				
		Shifts in the IS Schedule,				
	17	The Relative Effectiveness of Monetary and Fiscal Policy: Policy Effectiveness and the Slope of the IS Schedule, Policy Effectiveness and the Slope of the LM Schedule,	2			

	18	The IS-LM model for an open economy,	2	
	19	The Phillips curve and orthodox Keynesian economics,	2	
		The central propositions of orthodox Keynesian economics		
IV		Aggregate Supply and Demand	13	24
	20	The Keynesian Aggregate Demand Schedule, The Keynesian Aggregate Demand Schedule Combined with the Classical Theory of Aggregate Supply,	3	
	21	A Contractual View of the Labor Market: Sources of Wage Rigidity, A Flexible Price–Fixed Money Wage Model, Labor Supply and Variability in the Money Wage: Classical and Keynesian Theories of Labor Supply,	3	
	22	The Keynesian Aggregate Supply Schedule with a Variable Money Wage, Policy Effects in the Variable-Wage Keynesian Model,	3	
	23	The Effects of Shifts in the Aggregate Supply Schedule: Factors That Shift the Aggregate Supply Schedule	4	
V		Schools of thought	12	
		Discussion based on different schools of thought		
		Practical Assignments		
		Seminar		

- 1. Froyen, R. T., (2013). Study guide macroeconomics theories and policies, tenth edition, Pearson Education India
- 2. Brian Snowdon and Howard R. Vane (2005), Modern Macroeconomics: Its Origins, Development and Current State, Edward Elgar

## ADDITIONAL READINGS

- 1. Goodwin, N., Harris, J. M., Nelson, J. A., Roach, B., & Torras, M. (2015b). Macroeconomics in context. Routledge.
- 2. Sikdar, S. (2020). Principles of macroeconomics. Oxford University Press.
- 3. Mankiw, N. G., Kneebone, R. D., & McKenzie, K. J. (2023). Principles of Macroeconomics, 9th Edition. Cengage Canada.
- 4. DeLorme, C. D., & Ekelund, R. B. (1983). Macroeconomics. Plano, Tex.: Business Publications.

# MAPPING OF COS WITH PSOS:

	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6	PO1	PO2	PO3	PO4	PO5	PO6	PO7
CO 1	3	-	-	1	-	-	1	-	-	-	-	-	-
CO 2	1	1	1	1	-	1	-	-	2	-	-	-	-
CO 3	3	2	1	2	1	-	-	2	1	1	1	1	1
CO 4	3	2	-	2	-	-	-	-	-	-	2	-	-
CO 5	2	1	-	-	-	-	-	-	-	-	-	-	3

## **CORRELATION LEVELS:**

Level Correlation		
-	Nil	
1	Slightly / Low	
2	Moderate / Medium	
3	Substantial / High	

ASSESSMENT	<b>RUBRICS:</b>
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☐ Quiz / Assignment/ Viva Voce/ Discussion / Seminar
☐ Internal Exam
☐ Practical Assignments (20%)
☐ Final Exam (70%)

		Quiz / Assignment/ Viva		End Semester
	Internal Exam	Voce/ Discussion / Seminar	Assignment	Examination
CO 1	✓	✓		✓
CO 2	✓		✓	✓
CO 3	✓	√		✓
CO 4	✓	√		✓
CO 5		√		

Programme	B.A. Economics Honours

Course Title	ANALYTICAL TO	ANALYTICAL TOOLS FOR ECONOMICS II				
Type of Course	Major					
Semester	IV					
Academic Level	200-299					
Course Details	Credit	Lecture	Tutorial	Practical	Total	
		per week	per week	per week	Hours	
	4	4	-	-	60	
Pre-requisites	Basic Economics Cou	ırse				
Course	This course introduce	es students a	bout statistic	al methods for	or economic	
Summary	analysis. Students shall acquire in-depth knowledge in the concepts of					
	probability, probability	probability, probability distributions, theory of estimation, hypothesis				
	testing and their appli	ications in ec	onomic analy	ysis.		

CO	CO Statement	Cognitive Level*	Knowledge Category#	Evaluation Tools used
CO 1	Understand the basics of computation of probability.	U	C	Instructor- created exams / Quiz
CO 2	Identify various probability distributions and its applications	Ap	Р	Practical Assignment / Observation of Practical Skills
CO 3	Understand estimation of mean, variance and population of parameters of sampling distributions	U	Р	Seminar Presentation / Group Discussion
CO 4	Apply hypothesis testing for economics theories	Ap	С	Instructor- created exams / Home Assignments
CO 5	Develop critical thinking and problem-solving skills by applying statistical methods in Economic theories and acquired knowledge to address complex economic challenges in the contemporary world.	Ap	F	Viva Voce/ Assignment/ Discussion

<sup>\* -</sup> Remember (R), Understand (U), Apply (Ap), Analyse (An), Evaluate (E), Create (C)

<sup># -</sup> Factual Knowledge(F) Conceptual Knowledge (C) Procedural Knowledge (P) Metacognitive Knowledge (M)

Modul	Uni	Content	Hr	Marks
e	t		S	
I		Elementary Probability Theory	14	27
_	1	Concepts- Set theory- Permutations and Combinations, Definitions of	3	
		Probability - classical, empirical and axiomatic approaches- Addition		
		and multiplication laws		
	2	Conditional probability- Bay's theorem	2	
	3	Random variables- probability distribution- Mathematical	3	
		expectation- moments	2	
	4	Two random variables: joint, Marginal and conditional probability functions	3	
	5	Computing expected values- Covariance and correlation coefficients	3	
	3	Probability Distributions	11	22
II	6	Discrete Probability Distributions, Binomial, Poisson, Uniform -	4	22
11		simple applications	7	
	7	Continuous probability distributions- Normal, Lognormal and	4	
	/		4	
	0	Exponential Distributions (Derivations are not expected)	1	
	8	Concept of law of large numbers and Central limit theorem	1	
TTT	9	Distribution function- Distribution function of one random variable	2	25
III		Theory of Estimation	12	25
	10	Statistical Inference, Concept of population, sample- Sampling distributions- Standard error	3	
	11	Distributions of sample mean, Sample variance - chi square Student's t, and F distributions	3	
	12	Small and large sample properties of Z, t, Chi Square and F	2	
	13	Estimation of population parameters using method of OLS	1	
	14	Estimation of population parameters using method of maximum likelihood procedures	1	
	15	Point and interval estimation- Confidence intervals for population parameters	1	
	16	Properties of estimators	1	
IV		Testing of Hypothesis	11	24
	17	Simple and composite hypothesis- Null and alternative hypothesis	1	
	18	Type I and Type II error, Critical region- Level of significance, Power of a test	1	
	19	Test procedure - Test of significance in respect of Mean, Proportion,	2	
		Variance and Correlation coefficient and their differences		

	20	Chi Square test of goodness of fit, and test for independence of	2	
		attributes		
	21	Non parametric tests - Sign test, Wilcoxon- Mann Whitney U Test,	3	
		Signed rank test		
	22	Kruskal Wallis test, Wald-Wolfowitz test	2	
V	Application of Statistical Tools to Economic Theories			
	1	Develop critical thinking and problem-solving skills by applying		
		statistical methods in Economic theories		
	2	<b>Discussion</b> based on statistical tools		
	3	Practical Assignments		

- 1. Paul G. Hoel, Sidney C. Port, Charles J. Stone: Introduction to Probability Theory, Universal Book Store, Delhi (Module 1)
- 2. John E. Freund's Mathematical Statistics with Applications, Pearson, 2014 (Module2)
- 3. G Casella and R L Berger, Statistical Inference, Duxbury Advanced Series, Cengage Learning, 200 and William G. Cochran, Sampling Techniques, John Wiley, 2007 (Module 3)
- 4. Mood, A.M., F.A.Greybill and D.C. Boes: Introduction to the theory of statistics, McGraw Hill (Module 4)
- 5. Goon, Gupta and Dasgupta, Fundamentals of Statistics, Volume 1, 2, World Press (Module 4)

#### ADDITIONAL READINGS

- 1. Taro Yamane, Statistics: An Introductory Analysis, Harper & Edition 3,1973
- 2. Hoel PG: Introduction to Mathematical Statistics, John Wiley & Sons, Edition 4,1971
- 3. YP Agarwal: Statistical Methods: Concepts, Application and Computation, Sterling Publishers1986
- 4. Sidney Siegal, N. John Castellan: Non parametric Statistics for Behaviour Sciences, Edition 2, 1988, McGraw-Hill
- 5. Tulsian, P.C and Vishal Pandey: Quantitative Techniques, Pearson Education, NewDelhi
- 6. S.P. Gupta: Statistical Methods, Sulthan Chand and Sons, NewDelhi.
- 7. Hooda R.P: Statistics for Business and Economics, Mac Million, NewDelhi
- 8. Alpha C Chiang: Fundamental Methods of Mathematical Economics, 2 nd Ed. International Student Edition, McGrawhill
- 9. Edward T Dowling: Introduction to Mathematical Economics, Third Edition, Shaum's Outlines, Tata McGrawhill Publishing Co. Ltd, New Delhi.
- 10. SreenathBaruah: Basic Mathematics and its applications in Economics, Macmillan India Ltd.

## MAPPING OF COS WITH PSOS:

	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6	PO1	PO2	PO3	PO4	PO5	PO6	PO7
CO 1	3	-	-	1	1	1	3	1	-	1	-	-	1
CO 2	-	ı	ı	1	1	1	3	ı	-	ı	1	ı	1
CO 3	1	-	-	1	1	1	3	1	-	1	2	-	1
CO 4	-	-	1	2	-	-	3	-	-	-	2	-	1
CO 5	-	-	-	-	-	-	1	-	_	1	2	-	3

## **CORRELATION LEVELS:**

Level	Correlation
-	Nil
1	Slightly / Low
2	Moderate / Medium
3	Substantial / High

## **ASSESSMENT RUBRICS:**

Quiz / Assignment/ Viva Voce/ Discussion / Seminar
Internal Exam
Practical Assignments (20%)
Final Exam (70%)

	INTERNAL EXAM	QUIZ / ASSIGNMENT/ VIVA VOCE/ DISCUSSION / SEMINAR	PRACTICAL ASSIGNMENT	END SEMESTER EXAMINATION
CO 1	✓	<b>✓</b>		1
CO 2	✓		✓	✓
CO 3	✓	✓		✓
CO 4	✓	✓		1
CO 5		✓	✓	

Programme	B.A. Economics I	B.A. Economics Honours				
Course Title	ADVANCED M	ICROECON	NOMICS			
Type of Course	Major					
Semester	V					
Academic Level	300-399					
Course Details	Credit	Lecture	Tutorial	Practical	Total	
		per week	per week	per week	Hours	
	4	4	_	_	60	
Pre-requisites	Basic Economics	Course of 0	– 99 level			
Course Summary	This course focuses on market on factor inputs, various aspects of general equilibrium and economic efficiency, the behaviour of consumers under uncertain conditions and basic concepts of					
	behavioural econo	omics.				

CO	CO Statement	Cognitive	Knowledge	Evaluation
		Level*	Category#	Tools used

CO1	To understand the fundamental methods and theories of microeconomics	U	С	Instructor- created exams / Practical Assignment
CO2	Understand the functioning of factor markets.	U	С	Writing assignments / Quiz
CO3	To analyze the concept of general equilibrium and welfare analysis.	An	Р	Observation of Practical Skills / Group Discussion
CO4	Apply microeconomic concepts to analyse real-life economic situations.	Ap	P	Observation of Practical Skills / Home Assignments
CO5	To evaluate consumer behaviour under uncertain conditions.	Е	P	Group Discussion / Instructor- created exams

CO6	Develop microeconomic models to	С	M	Practical
	evaluate real-world microeconomic			Assignment
	phenomena and issues.			Viva Voce

<sup>\* -</sup> Remember (R), Understand (U), Apply (Ap), Analyse (An), Evaluate (E), Create (C)

Module	Unit	Content	Hrs:	Marks
I		MARKET FOR FACTOR INPUTS	13	26
-	1	Competitive Factor Markets - Demand for a Factor	3	20
	1	input with a single variable input	3	
	2	Demand for a Factor input with a several variable inputs	3	
	3	Supply of inputs - Equilibrium	3	
	4	Factor markets with Monopoly Power	2	
	5	Factor markets with Monopsony Power	2	
II	3	GENERAL EQUILIBRIUM AND	15	30
11		ECONOMIC EFFICIENCY	13	30
	6	Efficiency in Exchange - The Advantages of trade	2	
	7	Edgeworth Box Diagram - Efficient Allocations	2	
	8	Contract Curve - Economic Efficiency of Competitive	2	
		Markets		
	9	Equity and Efficiency - The Utility Possibilities Frontier	2	
	10	Social Welfare Functions	2	
	11	Equity and Perfect Competition	1	
	12	Efficiency in Production - Input efficiency - Production Possibility Frontier - Marginal Rate of Transformation	3	
	13	Efficiency in Output Markets	1	
III	U	NCERTAINTY AND CONSUMER BEHAVIOUR	10	21
	14	Describing Risk- Probability- Expected Value – Variability -	1	
	15	Preferences towards Risk – Risk Averse- Risk Neutral – Risk Loving	2	
	16	Reducing Risk – Diversification – Law of Large Numbers – Actuarial Fairness	2	
	17	The Value of Information	2	
	18	Demand for Risky Assets – Trade-off between risk and return – Investor's Choice Problem	3	
IV		BEHAVIOURAL ECONOMICS	10	21
- '	19	Reference Points and Consumer's preferences	3	
	20	Endowment Effect – Loss Aversion – Framing- Fairness	3	

<sup>#</sup> - Factual Knowledge (F) Conceptual Knowledge (C) Procedural Knowledge (P) Metacognitive Knowledge (M)

	21	Rules of Thumb and Biases in Decision making –	2	
	22	Anchoring – Rules of Thumb – Law of Small Numbers	2	
V		Flexible Learning Unit	12	
	Disc valua	ussion based on different market securities and its ation.		
		cical Assignments about firms' decision making in lating the worthiness of a capital investment.		

- 1. Pindyck, R. and Rubinfeld, D. Microeconomics (2017, Ninth Edition). ISBN: 978-1-292-21-331-6.
- 2. H.R Varian (2009), Intermediate Microeconomics- A Modern Approach. W W Norton & Co

## **ADDITIONAL READINGS**

- 1. Dominick Salvatore (2013): Microeconomics: Theory and Applications 5th Edition, Oxford
- 2. A Koutsoyiannis (1979): Modern Microeconomics- 2ndEdition, Macmillan
- 3. Gregory Mankiw (2006) Principles of Microeconomics, (Paperback) South Western
- 4. Robert Y Awh (1976): Microeconomics: Theory and Applications- John Wiley & Sons.
- 5. Watson and Getz (2004): Price Theory and its Uses- 5thEdition, AITBS Publishers and Distributors.

## MAPPING OF COS WITH PSOS:

	PSO1	PSO2	PSO3	PSO 4	PSO5	PSO6	PO1	PO2	PO3	PO4	PO5	PO6	PO7
CO 1	3	-	-	-	-	-	3	-	-	-	1	-	-
CO 2	3	1	1	1	1	-	2	1	3	-	-	-	1
CO 3	3	2	1	1	1	-	1	2	-	-	-	3	-
CO 4	-	3	1	1	2	2		-	-	-	2	-	-
CO 5	2	1	1	2	2	2	-	-	-	-	2	-	-
CO 6	-	2	2	3	2	2	-	-	-	-	-	-	3

## **CORRELATION LEVELS:**

Level	Correlation
-	Nil
1	Slightly / Low
2	Moderate / Medium
3	Substantial / High

## **ASSESSMENT RUBRICS:**

- Quiz / Assignment/ Viva Voce/ Discussion / Seminar
- Internal Exam
- Practical Assignments (20%)
- Final Exam (70%)

	Internal Exam	Quiz / Assignment/ Viva Voce/ Discussion / Seminar	Practical Assignment	End Semester Examination
CO 1	√	✓		✓
CO 2	<b>√</b>	✓		✓
CO 3	✓	✓	✓	✓
CO 4	√	✓		✓
CO 5		√	<b>√</b>	
CO 6			✓	

Programme	B.A. Economics Honours								
Course Title	INTERNATIONAL TRADE THEORIES								
Type of Course	Major	Major							
Semester	V	V							
Academic Level	300 - 399								
Course Details	Credit	Lecture	Tutorial	Practical	Total				
		per week	per week	per week	Hours				
	4	4	-	-	60				
Pre-requisites	Basic Microeconomic	es and Macro	economics c	ourses of 200	– 299 level				
Course Summary	This course explores the traditional, modern and new theories of								
	international trade between nations and the relevance of international								
	trade in an economy's	developmen	ıt.						

СО	CO Statement	Cognitive Level*	Knowledge Category#	Evaluation Tools used
CO1	Understand the various concepts in international Trade	U	С	Instructor-created exams / Quiz
CO2	Analyze the traditional modern and new trade Theories	An	P	Practical Assignment
CO3	Evaluate the process of international transactions between nations	Ap	F	Seminar Presentation / Group Discussion
CO4	Apply the theoretical knowledge to current international trade and financial flows	Ap	С	Instructor-created exams / Home Assignments
CO5	Create complete understanding of the theoretical background of international trade and financial flows.	Ŭ	F	Viva

<sup>\* -</sup> Remember (R), Understand (U), Apply (Ap), Analyse (An), Evaluate (E), Create (C)

<sup># -</sup> Factual Knowledge(F) Conceptual Knowledge (C) Procedural Knowledge (P) Metacognitive Knowledge (M)

DETAILEI Module	Unit	Content	Hrs	Marks
I		Introduction to International Trade	12	18
	1	Scope and Importance of international trade	2	
	2	Concepts in International Trade(Terms of trade, Gains from	2	
		Trade, Production Possibility Frontier ,Trade indifference		
		curve)		
	3	Free Trade, Protection and Tariff	2	
	4	Balance of payment	2	
	5	Foreign exchange.	2	
	6	Purpose of International Economic Theories	2	
II		Traditional Theories of International Trade	11	24
	7	Mercantilists views on trade	2	
	8	Absolute cost advantage	2	
	9	3		
	10	Opportunity cost theory	2	
	11	Reciprocal demand theory.	2	
III		Modern Theories of International Trade	13	28
	12	Offer curve	2	
	13	Heckscher Ohlin Theorem	3	
	14	Leontief Paradox	2	
	15	Factor Price equalization Theorem	2	
	16	Factor intensity reversals-Stolper –Samuelson Theorem	2	
	17	Rybczynski Theorem	2	
IV		New Theories of International Trade	12	28
	18	Technological gap model	2	
	19	Product cycle model	2	
	20	Kravis Theory of Availability	2	
	21	Intra industry Trade model of Paul Krugman	3	
	22	Neo Heckscher Ohlin Theory	3	
		International Trade: Real-World Examples	12	
		<b>Discussion</b> - compare and contrast traditional and modern		
		theories of International trade		
₹7		Practical Assignments -Study about the relevance of		
V		international trade theories in explaining current		
		International transactions between countries.		
		Seminar- presentation about the evaluation of new trade		
		theories in the context of international trade of developing		
		nations like India.		

- 1. Dominick Salvatore, *International Economics Trade and Finance* Eleventh Edition Wiley 2014 (Module I, II and III)
- 2. Krugman P. R .and Obstfeld M(2000)International Economics :Theory and Policy, Dorling Kindersley (India) Pvt.Ltd( Module IV)

#### **ADDITIONAL READINGS**

- 1. Sodersten, Bo and Geoffrey Reed *International Economics*. Mcmillan Education Ltd 1998.
- 2. Bhagwati, J.N.(1998) International Trade: Selected Readings. McMillan University Press.
- 3. K.C Rana and K.N Verma(2014) International Economics, Vishal publishing Co
- 4. Barbara Ingham (2015) International Economics, Prentice Hall, England
- 5. Carbaugh. R. J. (2014), International Economics, 12 th Edition, South Western, USA
- 6. Handbook of International Economics (3 volumes), Elsevier, Netherlands.
- 7. Charles Van Marrewijk(2007).International Economics,Theory, Application and Policy, Ox- ford University Press.

#### MAPPING OF COS WITH PSOS:

	PSO 1	PSO2	PSO3	PSO4	PSO5	PSO6	PO1	PO2	PO3	PO4	PO5	PO6
CO 1	3	-	-	-	-	-	3	-	-	-	-	-
CO 2	-	-	-	2	-	1	-		1	-	-	2
CO 3	-	-	-	2	2	-	-	2	-	-	-	-
CO 4	-	-	-	3	3	ı	ı	-	-	ı	2	ı
CO 5	-	-	-	-	-	-	-	-	-	-	-	-

### **CORRELATION LEVELS:**

Level	Correlation		
- Nil			
1	Slightly / Low		
2	Moderate / Medium		
3	Substantial / High		

# **ASSESSMENT RUBRICS:**

Quiz / Assignment/ Viva Voce/ Discussion / Seminar
Internal Exam
Practical Assignments (20%)
Final Exam (70%)

	Internal Exam	Quiz / Assignment/ Viva Voce/ Discussion / Seminar	Practical Assignment	End Semester Examination
CO 1	<b>&gt;</b>	<b>\</b>		<b>✓</b>
CO 2	<b>√</b>		<b>√</b>	<b>√</b>
CO 3	✓	<b>✓</b>		✓
CO 4	✓	✓	✓	<b>√</b>
CO 5		✓	✓	

Programme	B.A. Economics Honours					
Course Title	<b>GROWTH THEOR</b>	GROWTH THEORIES IN ECONOMICS				
Type of Course	Major					
Semester	V					
Academic Level	300 - 399					
Course Details	Credit	Lecture	Tutorial	Practical	Total	
		per week	per week	per week	Hours	
	4	4	ı		60	
Pre-requisites	Microeconomics and	Macroecono	mics course	of 200 – 299 1	evel	
Course Summary	This course delves into growth theory, focusing on coherent mathematical formalizations of economic growth. It explores various theories, from classical economists (such as Ricardo, Malthus, and Marx) to contemporary ideas about increasing returns, externalities, and the weightless economy.					

CO	CO Statement	Cognitive Level*	Knowledge Category#	Evaluation Tools used
CO 1	Understand the process of economic growth	U	C	Instructor-created exams / Quiz
CO 2	Analyze the theoretical aspects of growth	An	P	Practical Assignment
CO 3	Evaluate various growth models	Ap	F	Seminar Presentation / Group Discussion
CO 4	Apply the theoretical knowledge into understanding the growth process	Ap	С	Instructor-created exams / Home Assignments
CO 5	Create complete understanding of the growth process	U	F	Viva
CO 6				

<sup>\* -</sup> Remember (R), Understand (U), Apply (Ap), Analyse (An), Evaluate (E), Create (C) # - Factual Knowledge(F) Conceptual Knowledge (C) Procedural Knowledge (P) Metacognitive Knowledge (M)

Module	Unit	Content	Hrs	Marks
I		The concept of economic growth	10	20
	1	Distinction between growth and development	3	
	2	Determinants of inclusive and sustainable growth	2	
	3	Measurements of economic growth	2	
	4	Characteristics and features of developing nations	3	
II	Und	erstanding growth models	12	25
	5	Adam Smith,	2	
	6	David Ricardo	2	
	7	Karl Marx	2	
	8	Joseph Schumpeter	3	
	9	Harrod- Domer model	3	
III	Adva	anced discussion on growth models	12	25
	10	Robert Solow	3	
	11	Joan Robinson	2	
	12	Endogenous growth model – Paul Romer	2	
	13	Fei – Ranis model of economic growth	3	
	14	Unified growth theory	1	
	15	Justin Lin - New structural Economics	1	
IV	Pers	pectives on economic growth	14	28
	16	Balanced growth approach	2	
	17	Unbalanced growth approach	2	
	18	Convergence Theory	2	
	19	Human capital and economic growth-Schultz Model	3	
	20	Technical change and economic growth	2	
	21	Production function and economic growth	2	
	22	Structural changes and economic growth	1	
V		Flexible Learning Unit	12	
		Discussion Growth experience of economies		
		Practical Assignments Study about the relevance of theories in		
		explaining the growth experience of third world countries		
		<b>Seminar</b> present the student's understanding of growth using a		
		particular economy's experience.		

### REFERENCE:

1. Thirlwall A.P, Economics of Development, Macmillan; 9th edition (1 December 2011)

### **ADDITIONAL READINGS**

- 1. Debraj Ray, Development Economics, Oxford University Press, 2009
- 2. Misra & Puri, Economics of Development and Planning, Himalaya Publishing House,

Mumbai, 2016.

3. Todaro and Smith, Economic Development, Pearson Education India; 10th edition 2011

# MAPPING OF COS WITH PSOS:

	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6	PO1	PO2	PO3	PO4	PO5	PO6	PO7
CO 1	3	-	-	-	-	-	3	-	-	-	1	-	-
CO 2	-	3	-	1	-	-	2	1	3	-	-	-	1
CO 3		2	-	3	-	-	1	2	-	-	-	3	-
CO 4	-	3	1	3	-	2		-	-	-	2	-	-
CO 5	3	-	-	-	3	2	-	-	-	-	2	-	-

# **CORRELATION LEVELS:**

Level	Correlation		
- Nil			
1	Slightly / Low		
2	Moderate / Medium		
3	Substantial / High		

# **ASSESSMENT RUBRICS:**

Quiz / Assignment/ Viva Voce/ Discussion / Seminar
Internal Exam
Practical Assignments (20%)
Final Exam (70%)

	Internal Exam	Quiz / Assignment/ Viva Voce/ Discussion / Seminar	Practical Assignment	End Semester Examination
CO 1	<b>&gt;</b>	<b>\</b>		<b>✓</b>
CO 2	<b>✓</b>			<b>√</b>
CO 3	<b>√</b>	<b>✓</b>		<b>√</b>
CO 4	✓	✓	✓	<b>√</b>
CO 5	✓	✓	✓	

Programme	B.A. Economics Honours					
Course Title	DEVELOPMENT I	DEVELOPMENT ISSUES IN INDIAN ECONOMY				
Type of Course	Major	Major				
Semester	VI	VI				
Academic Level	300 - 399					
Course Details	Credit	Lecture	Tutorial	Practical	Total	
		per week	per week	per week	Hours	
	4	4	-	-	60	
Course Summary	This course explores important issues related to Development such as					
	Poverty, Unemployment, Inequality and Inflation. The measurements of					
	Development Issues a	are also incor	porated the t	opics.		

CO	CO Statement	Cognitive Level*	Knowledge Category#	Evaluation Tools used
CO 1	Understand the major development issues faced by Indian Economy and its historical precedents.	U	С	Instructor- created exams / Group Discussion.
CO <sub>2</sub>	Analyse the impact of public policy framed to deal with development issues such as Poverty, inequality in income distribution, unemployment and fiscal deficit.	An	F	Instructor- created exams/ Seminars/ Projects
CO 3	Understand the conceptual framework methodology, trends and policy measures adopted regarding the development issues	U	С	Seminar Presentation / Group Discussion
CO 4	Understand the development issues of Indian Economy, students will be exposed to economic reforms in India and problems of Indian economy	Ap	Р	Instructor- created exams / Home Assignments
CO 5	Understand public policy issues and made capable of measuring poverty and unemployment in a small region	U	M	Writing assignments/ Group Discussions

<sup>\* -</sup> Remember (R), Understand (U), Apply (Ap), Analyse (An), Evaluate (E), Create (C)

<sup># -</sup> Factual Knowledge(F) Conceptual Knowledge (C) Procedural Knowledge (P) Metacognitive Knowledge (M)

Modul	Unit	Content	Hrs	Marks
e I	TT:	gtowical Duccadents of Development Issues of Indian	6	11
1	П	storical Precedents of Development Issues of Indian Economy	U	11
	1	History of development Issues of Indian Economy	2	
	2	Basic indicators of Development: Real income, Health	1	_
		and Education		
	3	Basic issues in economic development	1	
	4	Institutional framework and policy regimes	2	
II		Poverty	14	22
	5	Concepts of poverty- Absolute Measurement of Poverty, Relative measurement of Poverty, Multi - Dimensional Poverty	3	
	6	Poverty Estimation-Poverty Line Calculation- Consumption verses Income levels- Data collection Methods -URP, MRP	4	
	7	Multi-dimensional poverty index.	1	
	8	Post-Independence Poverty Estimation- Tendulkar Committee (2009) -Rangarajan Committee.	2	
	9	Trends of Poverty	2	
	10	Poverty Alleviation Programmes	1	
	11	Economic Characteristics of High- Poverty Groups	1	
III		Inequality	13	31
	12	Income Inequalities in India -Causes of Income Inequalities in India	2	
	13	Measurements of Inequality-Lorenz Curve- Gini coefficient	2	
	14	The Ahluwalia- Chenery Welfare Index	2	
	15	Trends of Inequality in India.	3	
	16	Government Policy to tackle the problem of inequality	2	
	17	Policy Options on Income Inequality and Poverty	2	
IV		Unemployment:	15	34
	18	Types and Structure of unemployment	3	_
	19	Conceptual framework of key employment and unemployment indicators:	4	
	20	Nature and Estimates of Unemployment in India	3	
	21	Government Policy for Removing Unemployment	3	
	22	Major Employment Programmes	2	
V		Fiscal deficit and Inflation in India	12	
		<b>Discussion</b> based on the trends in fiscal deficit and inflation in India	3	
		A simple project for the Measurement of poverty using MRP method in a Ward of LSG	5	
		A simple project for the Measurement of Unemployment in the local territory using any one methodology	5	

**Report Based on Study Tour**: A study tour is recommended because it may add direct experience to learners about different economic culture of the country. All the students need to prepare a report of the tour that includes the places they visited, its importance etc and submit it to the Head of the Department soon after the completion of the tour.

### REFERENCE:

- 1. Nicholas C. Hope, et al. *Economic Reform in India: Challenges, Prospects, and Lessons*, edited by, Cambridge University Press, 2013. (Module 1)
- 2. <u>V.K. Puri, S. K. Misra, Bharat Garg</u> *Indian Economy including Union Budget 2023-24*, 2023, Himalaya Publishing House. (Module 2,3,4 and 5)
- 3. <u>Uma Kapila:</u> *Indian Economy Performance and Policies (23rd edition)*, Academic Foundation. (Module 2,3,4 and 5)
- 4. Singh, Shrawan Kumar. Understanding the Indian Economy from the Post-Reforms of 1991, Volume II: Anatomy of the Indian Economy, Business Expert Press, 2020. (Module 4)
- **5.** Michael P. Todaro, Stephen C. Smith: Economic Development (12<sup>th</sup> edition), Pearson (Mod-ule1,2,3 and 4)

#### ADDITIONAL READINGS

1. Sreenivasan, T., Banerjee, A. V., Bardhan, P., & Somanathan, R. (2019). *Poverty and Income Distribution in India*, Juggernaut.

#### MAPPING OF COS WITH PSOS:

	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6	PO1	PO2	PO3	PO4	PO5	PO6	PO7
CO 1	3	-	-	-	-	-	3	-	-	-	1	-	-
CO 2	-	2	1	1	ı	3	2	1	3	ı	ı	ı	1
CO 3	-	-	1	2	1	3	1	2	-	1	1	3	1
CO 4	_	3	1	2	-	3		-	-	-	2	-	-
CO 5	1	3	-	-	2	2	-	-	-	-	2	-	-

# **CORRELATION LEVELS:**

Level	Correlation
-	Nil
1	Slightly / Low
2	Moderate / Medium
3	Substantial / High

# **ASSESSMENT RUBRICS:**

Quiz / Assignment/ Viva Voce/ Discussion / Seminar
Internal Exam
Field work and project report (20%)
Final Exam (70%)

	Internal Exam	Quiz / Assignment/ Viva Voce/ Discussion / Seminar	Field work- project	End Semester Examination
CO 1	<b>√</b>	<b>✓</b>		✓
CO 2	√		✓	✓
CO 3	√	✓		✓
CO 4	√	✓		✓
CO 5		✓	✓	

Programme	B.A. Economics Honours								
Course Title	ELEMENTARY EC	ELEMENTARY ECONOMETRICS							
Type of Course	Major								
Semester	VI								
Academic Level	300-399								
Course Details	Credit	Lecture	Tutorial	Practical	Total				
		per week	per week	per week	Hours				
	4	3	-	2	75				
Pre-requisites	<ol> <li>Analytical To</li> </ol>	ols for Econo	omics I of 20	0-299 level					
	<ol><li>Analytical To</li></ol>	ols for Econo	omics II of 20	00-299 level					
Course Summary	This course introduc	es students	to the econo	ometric meth	ods used to				
	conduct empirical analysis in Economics. The course is designed to								
	provide the students with the basic econometric techniques needed to								
	undertake applied research projects. It also provides the base for more								
	advanced optional co	urses in econ	ometrics.						

CO Statement	Cognitive Level*	Knowledg e Category#	Evaluation Tools used
Understand the methodology of Econometrics	U	C C	Instructor-created exams / Quiz
Analyse linear models using ordinary least squares and make inferences about population parameters	An	Р	Instructor created exams / Assignment
Evaluate the elasticity, growth rates etc using econometric models	E	Р	Seminar Presentation / Discussions
To detect econometric problems and apply remedial measures	Е	P	Instructor-created exams / Home Assignments
Demonstrate econometric models and analysing skills by applying the acquired knowledge to address economic phenomena in the contemporary world.  Forecasting using estimated models	Ap, C	F	Seminar , Writing assignments
	methodology of Econometrics  Analyse linear models using ordinary least squares and make inferences about population parameters  Evaluate the elasticity, growth rates etc using econometric models  To detect econometric problems and apply remedial measures  Demonstrate econometric models and analysing skills by applying the acquired knowledge to address economic phenomena in the contemporary world.  Forecasting using estimated models	Understand the methodology of Econometrics  Analyse linear models using ordinary least squares and make inferences about population parameters  Evaluate the elasticity, growth rates etc using econometric models  To detect econometric problems and apply remedial measures  Demonstrate econometric models and analysing skills by applying the acquired knowledge to address economic phenomena in the contemporary world.  Forecasting using estimated models	Understand the methodology of Econometrics  Analyse linear models using ordinary least squares and make inferences about population parameters  Evaluate the elasticity, growth rates etc using econometric models  To detect econometric problems and apply remedial measures  Demonstrate econometric models and analysing skills by applying the acquired knowledge to address economic phenomena in the contemporary world.  Forecasting using estimated

<sup>\* -</sup> Remember (R), Understand (U), Apply (Ap), Analyse (An), Evaluate (E), Create (C) # - Factual Knowledge(F) Conceptual Knowledge (C) Procedural Knowledge (P) Metacognitive Knowledge (M)

	Uni	Content	Hrs	Marks
e	t			
I		Basic Principles of Economics	5	13
	1	What is Econometrics? Methodology of Econometrics	2	
	2	Uses of Econometrics	1	
	3	Limitations of Econometrics	1	
	4	The concept of PRF -Significance of stochastic error term-The SRF	1	
II		Simple linear regression model: Two variable case	12	25
	5	Ordinary least square estimation of a linear model	2	
	6	Assumptions underlying the method of least squares	1	
	7	Properties of estimators - The Gauss Markov theorem	2	
	8	Goodness of fit	2	
	9	Testing of hypothesis - Confidence intervals	3	]
	10	Forecasting	2	
III		Other functional forms of regression models	12	25
	11	Multiple linear regression model - Extension of the single	2	
		explanatory variable case to a multivariate model(specification,		
		interpretation of regression coefficients)		
	12	Multiple linear regression model- test of significance of partial	2	
		regression coefficients, adjusted R <sup>2</sup>		
	13	Regression through the origin	1	
	14	Introducing non-linearity through functions of explanatory	1	
		variables -Double log Model		
	15	Semilog models	1	
	16	Reciprocal model	1	
	17	Dummy Variable regression models - ANOVA & ANCOVA	3	
		models- specification & interpretation of regression coefficients		
	18	Dummy variable trap	1	
IV	Vi	olation of classical assumptions: consequences, detection and	16	35
		remedies		
	19	Multicollinearity- Nature, Practical Consequences, Detection	4	
		methods: using R2 and t values, auxiliary regressions, Remedial		
		measures: combining cross sectional and time series,		
		transformation of variables		
	20	Heteroscedasticity – Nature, Consequences, Detection methods:	4	1
		Park test, Spearman's rank correlation test, White's general		
		heteroscedasticity test, Remedial measures: WLS method, using		
		plausible assumptions about heteroscedasticity pattern		

	21	Autocorrelation - Nature, Consequences, Detection methods: the	4				
		Run's test, Durbin Watson d test, Remedial measures: GLS method					
	22	Specification Errors – Types, Consequences of underfitting and	4				
		overfitting of model, Detection methods: DW d statistic,					
		Ramsey's RESET test, Lagrange multiplier test					
$\mathbf{V}$		Regression through Excel	30				
	Estin	nation of economic functional relationships using cross section					
	data, interpretation and forecasting						
	(Exce	el package can be used for doing the regression)					

#### REFERENCE:

- 1. Damodar N Gujarati, Dawn C Porter, Sangeetha Gunasekar (2012): Basic Econometrics (fifth edition) McGrawHill. (Module I,II,III,IV)
- 2. Gujarati, D. (2014). Econometrics by example, 2nd ed. Palgrave Macmillan (Module I,II,III,V).
- 3. A Koutsoyiannis (1977): Theory of Econometrics- An introductory exposition of Econometric Methods, 2nd Edition, Palgrave (Module I, II)

#### **ADDITIONAL READINGS**

- 1. Dougherty, C. (2011). Introduction to econometrics, 4th ed. Oxford University Press. 20
- 2. Gujarati, D., Porter, D. (2010). Essentials of econometrics, 4th ed. McGrawHill.
- 3. Kmenta, J. (2008). Elements of econometrics. Khosla Publishing House.
- 4. Maddala, G., Lahiri, K. (2009). Introduction to econometrics, 4th ed. Wiley.
- 5. Wooldridge, J. (2014). Introduction to econometrics: A modern approach, 5th ed. Cengage Learning.
- 6. Lawrence R Klein (1975), A Text Book of Econometrics, Fourth Edition, Prentice Hall, Inc, Englewood cliffs, NJ, USA

#### MAPPING OF COS WITH PSOS:

	PSO1	PSO2	PSO3	PSO4	PSO5	PO1	PO2	PO3	PO4	PO5	PO6	PO7-
CO 1	3	1	-	-	-	3	1	-	1	1	-	-
CO 2	1	ı	-	3	-	2	1	3	ı	-	-	-
CO 3	-	1	-	2	-	1	2	-	1	-	3	-
CO 4	1	1	-	1	-		ı	-	ı	2	-	-
CO 5	-	-	_	-	1	-	-	-	-	2	_	3

### **CORRELATION LEVELS:**

Level	Correlation
-	Nil
1	Slightly / Low
2	Moderate / Medium
3	Substantial / High

### **ASSESSMENT RUBRICS:**

Quiz / Assignment/ Viva Voce/ Discussion / Seminar
Internal Exam
Practical Assignments (20%)
Final Exam (70%)

	Internal Exam	Quiz / Assignment/ Viva Voce/ Discussion / Seminar	Practical Assignment	End Semester Examination
CO 1	✓	<b>\</b>		<b>√</b>
CO 2	✓	<b>✓</b>		✓
CO 3	✓	<b>✓</b>		✓
CO 4	√	✓		√
CO 5		✓	✓	

Programme	B.A. Economics H	B.A. Economics Honours					
Course Title	ADVANCED MA	ADVANCED MACROECONOMICS					
Type of Course	Major						
Semester	VI						
Academic Level	300 - 399						
Course Details	Credit	Lecture	Tutorial	Practical	Total		
		per week	per week	per week	Hours		
	4	4	-	-	60		
Pre-requisites	Intermediate Macr	Intermediate Macroeconomics course of 200 – 299 level					
Course Summary	This course explor	This course explores important concepts, theories, models and other					
	fundamental macro	aspects of e	economics.				

CO	CO Statement	Cognitive	Knowledge	Evaluation
		Level*	Category#	Tools used
CO1	Understand the important concepts of	U	С	Instructor-
	economics and its real-world			created exams /
	applications.			Quiz
CO2	Develop and practice the skill of	Ap	P	Practical
	thinking like an economist.			Assignment /
				Observation of
				Practical Skills
CO3	Master the macroeconomic aspects	An	P	Seminar
	essential for understanding the economic			Presentation /
	climate, specific economic issues, and			Group
	policy alternatives.			Discussion
CO4	Apply the macroeconomic perspectives	Ev	С	Instructor-
	and reason accurately and objectively			created exams /
	about economic matters.			Home
				Assignments
CO5	Develop curiosity among the	C	F	Writing
	students to explore the			assignments/Vi
	functioning of the economy and			va Voce
	the power and breadth of			
	economics			

<sup>\* -</sup> Remember (R), Understand (U), Apply (Ap), Analyse (An), Evaluate (E), Create (C) # - Factual Knowledge(F) Conceptual Knowledge (C) Procedural Knowledge (P) Metacognitive Knowledge (M)

Module	Unit	Content	Hrs	Marks
I		The orthodox monetarist school	11	24
	1	The quantity theory of money approach,	2	
	2	The expectations-augmented Phillips curve analysis,	3	
	3	The monetary approach to balance of payments theory and exchange	3	
		rate determination,		
	4	The orthodox monetarist school and stabilization policy	3	
II		The new classical school and the real business cycle school	12	22
	5	The structure of new classical models,	1	
	6	Equilibrium business cycle theory,	2	
	7	The policy implications of the new classical approach,	3	
	8	The real business cycle school: Real business cycle theory, The	3	
		structure of a real business cycle model,		
	9	A real business cycle aggregate demand and supply model,	2	
	10	The policy implications of real business cycle theory	1	
III		The new Keynesian school	10	20
	11	The fall and rise of Keynesian economics, New Keynesian	3	
		economics,		
	12	Core propositions and features of new Keynesian economics,	2	
		Nominal rigidities,		
	13	Dornbusch's overshooting model,	2	
	14	Real rigidities,	1	
	15	New Keynesian business cycle theory, Policy implications	2 15	
IV	The new political macroeconomics			32
	16	Political distortions and macroeconomic performance, Political influences on policy choice,	2	
	17	The role of government, Politicians and stabilization policy,	2	
	18	Alternative approaches to the 'political business cycle': an Overview,	2	
	19	The Nordhaus opportunistic model, The Hibbs partisan model,	2	
	20	The decline and renaissance of opportunistic and partisan models,	2	
		Rational political business cycles,		
	21	Rational partisan theory, Opportunistic and partisan behaviour: a	2	
		synthesis,		
	22	Politics, time inconsistency, credibility and reputation, Policy	3	
		implications of politico-economic models		
V		Consumption, Investment & Money	12	
	1	Consumption theories after Keynes		
	2	Investment Theories		
	3	Theories of demand for money and supply of money		

# REFERENCE:

1. Brian Snowdon and Howard R. Vane (2005), Modern Macroeconomics: Its Origins,

# Development and Current State, Edward Elgar

#### **ADDITIONAL READINGS**

- 1. Goodwin, N., Harris, J. M., Nelson, J. A., Roach, B., & Torras, M. (2015b). Macroeconomics in context. Routledge.
- 2. Sikdar, S. (2020). Principles of macroeconomics. Oxford University Press.
- 3. Mankiw, N. G., Kneebone, R. D., & McKenzie, K. J. (2023). Principles of Macroeconomics, 9th Edition. Cengage Canada.
- 4. DeLorme, C. D., & Ekelund, R. B. (1983). Macroeconomics. Plano, Tex.: Business Publications.

#### MAPPING OF COS WITH PSOS:

	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6	PO1	PO2	PO3	PO4	PO5	PO6	PO7
CO 1	3	1	-	-	-	1	3	-	-	-	1	-	-
CO 2	1	2	-	1	-	1	2	-	3	-	-	-	-
CO 3	3	-	-	1	-	-	1	2	-	-	-	3	-
CO 4	-	3	1	2	-	-		-	-	-	2	-	-
CO 5	3	-	-	-	-	1	-	-	-	-	2	-	3

#### **CORRELATION LEVELS:**

Level	Correlation
-	Nil
1	Slightly / Low
2	Moderate / Medium
3	Substantial / High

### **ASSESSMENT RUBRICS:**

Quiz / Assignment/ Viva Voce/ Discussion / Seminar
Internal Exam
Practical Assignments (20%)
Final Exam (70%)

	Internal Exam	Quiz / Assignment/ Viva Voce/ Discussion / Seminar	Practical Assignment	End Semester Examination
CO 1	✓	✓		✓
CO 2	✓		✓	✓
CO 3	✓	✓		✓
CO 4	✓	√		✓
CO 5		✓	✓	

Programme	B.A. Economics Hon	ours			
Course Title	TIME SERIES ECO	ONOMETR	ICS		
Type of Course	Major				
Semester	VII				
Academic Level	400-499				
Course Details	Credit	Lecture	Tutorial	Practical	Total
		per week	per week	per week	Hours
	4	3	-	2	75
Pre-requisites	Econometrics course of 3	00-399 level			
Course	This course introduce	es students to	o the econom	netric methods	s using time
Summary	series data to conduc	ct empirical	analysis in E	Economics. Th	ne course is
	designed to provide the students with the basic econometric techniques				
	needed to undertake applied research projects using macroeconomic time				
	series data.				

CO	CO Statement	Cognitive	Knowledge	Evaluation
		Level*	Category#	Tools used
CO 1	Understand the basic concepts of Time series Econometrics	R,U	С	Instructor-created exams / Quiz
CO 2	Analyse dynamic econometric models	An	P	Instructor-created exams- Assignment
CO 3	Understand and evaluate the stochastic processes	Е	P	Seminar Presentation / Quiz
CO 4	Analyse the models of stochastic processes	Е	P	Instructor-created exams / Home Assignments
CO 5	Understand the nature of financial time series and apply the models to measure volatility	Ap	F	Writing assignments
CO 6	Forecasting using estimated models - Demonstrate econometric models and analysing skills by applying the acquired knowledge to address economic	С	P	Seminar/Viva Voce

phenomer	na in the		
contempo	rary world.		

<sup>\* -</sup> Remember (R), Understand (U), Apply (Ap), Analyse (An), Evaluate (E), Create (C) # - Factual Knowledge(F) Conceptual Knowledge (C) Procedural Knowledge (P) Metacognitive Knowledge (M)

Module		Content	Hrs	Marks
I		Dynamic Econometric Models	11	25
	1	Role of Lags in Economics	1	
	2	Distributed Lag (DL) model, Autoregressive (AR) model	2	
		and Autoregressive Distributed Lag (ARDL) model		
	3	The Koyck distributed lag model	2	
	4	Rationalisation of Koyck model (AE model)	2	
	5	Estimation of ARDL Model - Instrumental Variable	2	
		Method		
	6	Almon Approach to Distributed lag model	2	
II		Basic Concepts in Time Series Econometrics	16	30
	7	Stochastic processes, Stationary processes, Purely random processes	1	
	8	Nonstationary stochastic processes – Random walk without drift, Random walk with drift	1	
		Unit root stochastic process, Integrated Process	2	
	9	Transforming nonstationary time series into stationary:	3	
		Trend stationary process, Difference stationary stochastic		
		processes		
	10	Tests of stationarity- ACF and correlogram,	2	
	11	Dickey Fuller and Augmented Dickey Fuller tests of stationarity	3	
	12	Cointegration, Cointegration Test, Error Correction Model	4	
III		Modelling Stochastic Processes	12	23
	13	AR, MA, ARMA and ARIMA models	2	
	14	The Box Jenkins methodology	3	
	15	Forecasting using estimated ARIMA model	1	
	16	Multivariate time series - VAR	1	
	17	Estimation of VAR and Forecasting with VAR	2	
	18	VAR and causality, Problems with VAR modelling	3	
IV		Modelling Financial Time Series	6	20
	19	Volatility Clustering in financial time series	1	
	20	ARCH model	2	
	21	GARCH model	1	
	22	Forecasting volatility in financial time series	2	
V		Simultaneous Equation Models	30	
		Examples for Simultaneous equation models-		
		Simultaneous equation bias – Identification Problem-		
		Estimation Approaches : Recursive model & OLS		
		estimation, ILS, TSLS – Forecasting		

### REFERENCE:

- 1. Damodar N Gujarati, Dawn C Porter, Sangeetha Gunasekar (2012): Basic Econometrics (fifth edition) McGrawHill (Module I,II,III,IV,V)
- 2. Damodar N Gujarati and Dawn C Porter (2009): Basic Econometrics- Fifth Edition, McGraw Hill

- International Edition (Module I,II,III)
- 3. Gujarati, D. (2014). Econometrics by example, 2nd ed. Palgrave Macmillan. (Module II,III,IV)
- 4. A Koutsoyiannis (1977): Theory of Econometrics- An introductory exposition of Econometric Methods, 2<sup>nd</sup> Edition, Palgrave
- 5. Jack Johnston, John Dinardo, Econometric Methods, McGraw Hill International Edition (Modules I, III,IV)

#### **ADDITIONAL READINGS**

- 6. Dougherty, C. (2011). Introduction to econometrics, 4th ed. Oxford University Press.
- 7. Gujarati, D., Porter, D. (2010). Essentials of econometrics, 4th ed. McGrawHill.
- 8. Kmenta, J. (2008). Elements of econometrics. Khosla Publishing House.
- 9. Maddala, G., Lahiri, K. (2009). Introduction to econometrics, 4th ed. Wiley.
- Wooldridge, J. (2014). Introduction to econometrics: A modern approach, 5th ed.
   Cengage Learning.
- 11. Lawrence R Klein (1975), A Text Book of Econometrics, Fourth Edition, Prentice Hall, Inc,Englewood cliffs, NJ, USA
- 12. James H Stock and Mark W Watson (2008): Introduction to Econometrics- Pearson, Addison Wesley.
- 13. Christopher Dougherty (2007): Introduction to Econometrics, Third Edition, Oxford University Press.
- 14. Robert S Pyndick and Daniel L Rubinfeld (1998): Econometric Models and Economic Forecasts- Fourth Edition, McGraw Hill International Edition

#### MAPPING OF COS WITH PSOS:

	PSO1	PSO2	PSO3	PSO4	PSO5	PO1	PO2	PO3	PO4	PO5	PO6	PO7
CO 1	3	1	-	1	-	3	-	-	1	-	1	-
CO 2	-	2	-	3	-	2	-	2	ı	-	ı	1
CO 3	-	1	-	1	2	ı	2	-	1	-	ı	-
CO 4	-	1	-	1	-	2	-	-	ı	2	ı	-
CO 5	-	-	_	2	_	-	-	-	-	3	-	3
CO 6	_		-	3	-		-	-	3	-		-

#### **CORRELATION LEVELS:**

Level	Correlation		
-	Nil		
1	Slightly / Low		
2	Moderate / Medium		
3	Substantial / High		

#### **ASSESSMENT RUBRICS:**

Quiz / Assignment/ Viva Voce/ Discussion / Seminar
Internal Exam
Assignments (20%)
Final Exam (70%)

	Internal Exam	Quiz / Assignment/ Viva Voce/ Discussion / Seminar	Test /Assignment	End Semester Examination
CO 1	✓	✓		✓
CO 2	✓	✓	✓	✓
CO 3	✓	✓	✓	✓
CO 4	<b>√</b>	√		✓
CO 5	<b>√</b>	✓		✓
CO 6	<b>√</b>	<b>→</b>	<b>√</b>	

Programme	B.A. Economics Honours						
Course Title	GAME THEORY A	GAME THEORY AND ECONOMIC BEHAVIOUR					
Type of Course	Major						
Semester	VII						
Academic Level	400 - 499	400 - 499					
Course Details	Credit	Lecture	Tutorial	Practical	Total		
		per week	per week	per week	Hours		
	4	3	-	2	75		
Pre-requisites	Advanced Microecon	omics course	$e  ext{ of } 300 - 39$	9 level			
Course Summary	The expected outcome is for students to gain a comprehensive						
	understanding of game theory principles and their application in economics, fostering strong analytical, problem-solving, and policy evaluation skills essential for tackling real-world economic challenges.						

CO	CO Statement	Cognitive Level*	Knowledge Category#	Evaluation Tools used
CO1	Understand the theory of games	U	C	Instructor-created exams / Quiz
CO2	Analyze the decision making under interdependent situations	An	Р	Practical Assignment
CO3	Evaluate different strategies	E	Р	Seminar Presentation
CO4	Can predict the optimal strategies of players and how the players can exploit strategic situations for their benefit	Ap	Р	Instructor-created exams / Home Assignments
CO5	The students can understand how to formulate different real-life situations as games	Ap	Р	Viva

# **DETAILED SYLLABUS:**

Module	Unit	Content	Hrs	Marks
I	Introduction to Game Theory		5	10
	1	What is game theory?	1	
	2	History of game theory	1	
	3	Theory of rational choice	2	
	4	Interacting decision makers	1	
II	Strategic Games and Nash Equilibrium		14	30
	5	Strategic games: examples	3	
ı	6	Nash equilibrium: concept and examples	2	

<sup>\* -</sup> Remember (R), Understand (U), Apply (Ap), Analyse (An), Evaluate (E), Create (C) # - Factual Knowledge(F) Conceptual Knowledge (C) Procedural Knowledge (P) Metacognitive Knowledge (M)

	7	Best response functions	2	
	8	Dominated Actions	2	-
	9	Symmetric games and symmetric equilibria	2	
	10	Illustrations of Nash equilibrium-Cournot and	3	
TTT		Bertrand's model of duopoly market	15	25
III	1.1	Mixed Strategy Equilibrium	15	35
	11	Introduction	2	
	12	Strategic games with randomisation	2	
	13	Mixed strategy Nash equilibrium: concept and examples	2	
	14	Dominated Actions	2	
	15	Pure equilibria when randomization is allowed	3	=
	16	Equilibrium in a single population	2	
	17	Formation of Players' beliefs	2	
IV		<b>Extensive Games with perfect information</b>	11	23
	18	Introduction to extensive games	2	
	19	Strategies and outcomes	2	
	20	Nash equilibrium- Subgame perfect Nash	2	
		equilibrium		
	21	Backward induction	2	
	22	Illustrations of Extensive Games and Nash	3	
		Equilibrium-Stackelberg model of duopoly markets		
V		Flexible Learning Unit	30	
	1	Seminar on other examples like; Bach or		
		Stravinsky, Matching Pennies the Stag Hunt etc		
	2	Discussion on the importance of game theory in		
		modern economy		
	3	Exercises- saddle point		

### REFERENCE

1. Osborne, Martin J. *An introduction to game theory*. Vol. 3. No. 3. New York: Oxford university press, 2004.

### **ADDITIONAL READINGS**

- 1. Gibbons, Robert. "An introduction to applicable game theory." *Journal of Economic Perspec-tives* 11.1 (1997): 127-149.
- 2. Gibbons, Robert, and Robert Gibbons. "A primer in game theory." (1992).
- 3. Fudenberg, Drew, and Jean Tirole. *Game theory*. MIT press, 1991.
- 4. Pindyck, Robert S. Microeconomics. 2018.

# MAPPING OF COS WITH PSOS:

	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6	PO1	PO2	PO3	PO4	PO5	PO6	PO7
CO 1	3	2	1	1	1	ı	3	ı	ı	ı	1	-	1
CO 2	-	ı	2	1	1	-	2	1	3	ı	-	-	1
CO 3	-	-	2	1	1	ı	1	2	1	1	-	3	1
CO 4	-	-	-	3	-	2		-	-	-	2	-	-
CO 5	-	-	ı	1	3	2	ı	ı	ı	ı	2	-	ı

# **CORRELATION LEVELS:**

Level	Correlation	
-	Nil	
1	Slightly / Low	
2	Moderate / Medium	
3	Substantial / High	

# **ASSESSMENT RUBRICS:**

	Quiz / Assignment/ Viva Voce/ Discussion / Seminar /Survey
	Internal Exam
	Practical Assignments
П	Final Exam (70%)

	Internal Exam	Quiz / Assignment/ Viva Voce/ Discussion / Seminar	Practical Assignment	End Semester Examination
CO 1	<b>✓</b>	<b>✓</b>		<b>√</b>
CO 2	<b>√</b>	✓	✓	<b>√</b>
CO 3	<b>√</b>	✓		<b>√</b>
CO 4	✓	✓	✓	✓
CO 5		✓	✓	

Programme	B.A. Economics Honours							
Course Title	DEVELOPMENT T	DEVELOPMENT THEORIES AND MODELS						
Type of Course	Major	Major						
Semester	VII	VII						
Academic Level	400 - 499							
Course Details	Credit	Lecture	Tutorial	Practical	Total			
		per week	per week	per week	Hours			
	4	3	-	2	75			
Pre-requisites	Microeconomics and Macroeconomics course of 200 – 299 level							
Course Summary	To understand the theoretical aspects of development and the factors							
	influencing it.							

CO	CO Statement	Cognitive Level*	Knowledge Category#	Evaluation Tools used
CO 1	Understand the process of economic development	U	С	Instructor- created exams /
	1			Quiz
CO	Analyze the theoretical aspects of	An	P	Practical
2	development			Assignment
CO	Evaluate various development	Ap	F	Seminar
3	theories			Presentation
CO 4	Apply the theoretical knowledge into understanding the development process	Ap	С	Instructor- created exams / Home Assignments
CO 5	Create complete understanding of the development process	U	F	Viva

<sup>\* -</sup> Remember (R), Understand (U), Apply (Ap), Analyse (An), Evaluate (E), Create (C)

### DETAILED SYLLABUS:

Module	Unit	Content	Hr	Marks
			S	
I		The concept of economic development	10	21
	1	Development and underdevelopment	1	
	2 Development gap		1	
	3 Measurement of poverty			
	4	2		
	5 Capability approach		1	
	6 Development and institutions		2	
	7	Human capital with reference to gender gap in development	1	
		process		

<sup>#</sup> - Factual Knowledge (F) Conceptual Knowledge (C) Procedural Knowledge (P) Metacognitive Knowledge (M)

II	Theories of development	16	31	
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	8	Rostow's stages of growth	2	
	9	Kaldor's six characteristics of growth	2	
	10	Structural change model – Prebish-Singer model, Lewis	4	
	11	Dependency theories – Emmanuel dualism	3	
	12	False Paradigm	1	
	13	Dualism-financial, technical and social Jorgenson's theory of	2	
		dual economy		
	14	Jorgenson's theory of dual economy	2	
III		Contemporary development theories	10	28
	15	Big push theory	2	
	16	Underdevelopment as coordination failure	1	
	17 Multiple equilibria		3	
	18	O ring theory	1	
	19	Leibenstein's Theory of Critical Minimum Efforts	3	
IV		Regional development models	9	18
	20	Growth Pole theory – François Perroux	3	
	21	Gunnar Myrdal- Theory of cumulative causation	3	
	22	Friedman- Core Periphery theory	3	
V		Practical Perspectives on Development Theory	30	
		Discussion Developing experience of third world economies		
		Practical Assignments Study about the relevance of theories		
		in explaining the development experience of third world		
		countries		
		Seminar present the student's understanding of development		
		indicators using a particular economy's experience.		
		Seminar present the student's understanding of development indicators using a particular economy's experience.		

### REFERENCE:

1. Thirlwall A.P, Economics of Development, Macmillan; 9th edition (1 December 2011

### **ADDITIONAL READINGS**

- 1. Debraj Ray, Development Economics, Oxford University Press, 2009
- 2. Misra & Puri, Economics of Development and Planning, Himalaya Publishing House, Mumbai, 2016.
- 3. Todaro and Smith, Economic Development, Pearson Education India; 10th edition 2011

### MAPPING OF COS WITH PSOS:

	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6	PO1	PO2	PO3	PO4	PO5	PO6	PO7
CO 1	3	-	1	-	-	-	3	-	ı	ı	ı	ı	ı
CO 2	-	-	1	1	-	-	ı	-	2	ı	ı	ı	ı
CO 3	-	-	-	3	1	-	-	-	-	-	3	-	-
CO 4	-	3	1	2	-	2	-	-	-	-	-	-	2
CO 5	3	-	-	-	-	-		1	-	-		-	

### **CORRELATION LEVELS:**

Level	Correlation
-	Nil
1	Slightly / Low
2	Moderate / Medium
3	Substantial / High

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Quiz / Assignment/ Viva Voce/ Discussion / Seminar
Internal Exam
Practical Assignments (20%)
Final Exam (70%)

	Internal Exam	Quiz / Assignment/ Viva Voce/ Discussion / Seminar	Practical Assignment	End Semester Examination
CO 1	<b>√</b>	<b>√</b>		✓
CO 2	<b>√</b>		✓	✓
CO 3	✓	✓		✓
CO 4	<b>√</b>	✓		✓
CO 5	✓	✓	✓	✓

Programme	B.A. Economics Honours						
Course Title	BALANCE OF PAYMENTS AND EXCHANGE MARKET						
Type of Course	Major	Major					
Semester	VII						
Academic Level	400 - 499						
Course Details	Credit	Lecture	Tutorial	Practical	Total		
		per week	per week	per week	Hours		
	4	3	ı	2	75		
Pre-requisites	Microeconomics ar	nd Macroecon	nomics cours	e of 200 – 299	9 level		
Course Summary	This course explore	es the importa	nt principles	and theories of	of balance of		
	payment, foreign exchange transactions and working of current						
	International Mone	International Monetary system. It also explores the foreign exchange					
	management in Ind	ian context.					

СО	CO Statement	Cognitive Level*	Knowledge Category#	Evaluation Tools used
CO1	Understand the concepts in BoP and foreign Exchange	U	С	Instructor-created exams / Quiz
CO2	Analyze the various approaches of Balance of payment and theories of Exchange Rate determination	An	Р	Practical Assignment
CO3	Evaluate the process of foreign exchange transactions and management	Ap	F	Seminar Presentation / Group Discussion
CO4	Apply the theoretical knowledge to current international Monetary system	Ap	С	Instructor-created exams / Home Assignments
CO5	Create complete understanding of the BoP and forex Management in India.	U	F	Viva

<sup>\* -</sup> Remember (R), Understand (U), Apply (Ap), Analyse (An), Evaluate (E), Create (C)

<sup># -</sup> Factual Knowledge(F) Conceptual Knowledge (C) Procedural Knowledge (P) Metacognitive Knowledge (M)

Balance of Payment and Balance of Trade   10	Modul e	Unit	Content	Hrs	Marks
2 Equilibrium and Disequilibrium is BoP and Measures to correct BoP  3 Marshall Lerner Condition, J curve effect and Absorption approach  4 Foreign Trade Multiplier  2 II Foreign Exchange Rate  5 Evolution and Functions of foreign exchange market  6 Theories of Exchange Rate Determination-Mint Parity, Purchasing Power Parity and Balance of Payment theory  7 Exchange Rate systems - fixed, flexible and Managed Floating  8 Different Types of Transactions in foreign Exchange Market  9 IMF and International Liquidity management.  3 Approaches to Balance of Payment and Exchange Rate  10 Monetary Approach to Balance of Payment  2 Exchange Rate overshooting  11 Portfolio Balance Approach  12 Exchange Rate overshooting  13 Internal and External Balance - Swan model  14 IS- L M- BP Model  2 Exchange rate volatility  17 Redux and Target zone Models  18 Direction and composition of Balance of payments in India  2 Do Currency Convertibility  21 Exchange control Measures in India  22 Foreign Exchange Management in India- Fiscal, monetary and trade policy.  V Practical Insights into Balance of Payments  Discussion - International Monetary System - Present and Future  Practical Assignments 1) Study about the recent trends of balance of payments in developing countries with special reference to India. OR			Balance of Payment and Balance of Trade	10	21
BoP  3 Marshall Lerner Condition, J curve effect and Absorption approach  4 Foreign Trade Multiplier  5 Evolution and Functions of foreign exchange market  5 Evolution and Functions of foreign exchange market  6 Theories of Exchange Rate Determination-Mint Parity, Purchasing Power Parity and Balance of Payment theory  7 Exchange Rate systems - fixed, flexible and Managed Floating  8 Different Types of Transactions in foreign Exchange Market  9 IMF and International Liquidity management.  3 III  Approaches to Balance of Payment and Exchange Rate  10 Monetary Approach to Balance of Payment  2 Exchange Rate overshooting  11 Portfolio Balance Approach  12 Exchange Rate overshooting  13 Internal and External Balance - Swan model  14 IS-LM-BP Model  15 Currency substitution Model  2 16 Exchange rate volatility  17 Redux and Target zone Models  2 IV  Balance of payment and Forex Management in India  18 Direction and composition of Balance of payments in India  2 20 Currency Convertibility  2 1 Exchange control Measures in India  2 2 2 Foreign Exchange Management in India-Fiscal, monetary and trade policy.  V Practical Insights into Balance of Payments  Discussion - International Monetary System — Present and Future  Practical Assignments 1) Study about the recent trends of balance of payments in developing countries with special reference to India. OR		1	2		
3 Marshall Lerner Condition, J curve effect and Absorption approach 4 Foreign Trade Multiplier 2 II Foreign Exchange Rate 5 Evolution and Functions of foreign exchange market 6 Theories of Exchange Rate Determination-Mint Parity, Purchasing Power Parity and Balance of Payment theory 7 Exchange Rate systems - fixed, flexible and Managed Floating 8 Different Types of Transactions in foreign Exchange Market 9 IMF and International Liquidity management. 3 III Approaches to Balance of Payment and Exchange Rate 10 Monetary Approach to Balance of Payment 2 Exchange Rate overshooting 11 Portfolio Balance Approach 12 Exchange Rate overshooting 13 Internal and External Balance - Swan model 14 IS- L M- BP Model 15 Currency substitution Model 2 16 Exchange rate volatility 17 Redux and Target zone Models 18 Direction and composition of Balance of payments in India 18 Direction and composition of Balance of payments in India 2 D Currency Convertibility 2 Exchange control Measures in India 2 Converency Convertibility 2 Exchange control Measures in India 2 Exchange control Measures in India 2 Exchange Control Measures in India 3 Discussion - International Monetary System - Present and Future 4 Practical Assignments 1) Study about the recent trends of balance of payments in developing countries with special reference to India. OR		2	Equilibrium and Disequilibrium is BoP and Measures to correct	3	
approach 4 Foreign Trade Multiplier 2 II Foreign Exchange Rate 5 Evolution and Functions of foreign exchange market 6 Theories of Exchange Rate Determination-Mint Parity, Purchasing Power Parity and Balance of Payment theory 7 Exchange Rate systems - fixed, flexible and Managed Floating 2 Bifferent Types of Transactions in foreign Exchange Market 9 IMF and International Liquidity management. 3 III Approaches to Balance of Payment and Exchange Rate 10 Monetary Approach to Balance of Payment 2 Exchange Rate overshooting 11 Portfolio Balance Approach 12 Exchange Rate overshooting 13 Internal and External Balance - Swan model 14 IS- L M- BP Model 15 Currency substitution Model 16 Exchange rate volatility 17 Redux and Target zone Models 18 Direction and composition of Balance of payments in India 2 Palance of payment and Forex Management in India 2 Direction and composition of Balance of payments in India 2 Currency Convertibility 2 Exchange control Measures in India 2 Exchange in India 2 Exchange Management in India- Fiscal, monetary and trade policy.  V Practical Insights into Balance of Payments Discussion - International Monetary System -Present and Future Practical Assignments 1) Study about the recent trends of balance of payments in developing countries with special reference to India. OR			BoP		
4   Foreign Trade Multiplier   2		3	Marshall Lerner Condition, J curve effect and Absorption	3	
Foreign Exchange Rate   5   Evolution and Functions of foreign exchange market   2			**		
Second   S		4	2		
6 Theories of Exchange Rate Determination-Mint Parity, Purchasing Power Parity and Balance of Payment theory 7 Exchange Rate systems - fixed, flexible and Managed Floating 8 Different Types of Transactions in foreign Exchange Market 9 IMF and International Liquidity management. 3  III Approaches to Balance of Payment and Exchange Rate 10 Monetary Approach to Balance of Payment 2 11 Portfolio Balance Approach 12 Exchange Rate overshooting 13 Internal and External Balance - Swan model 14 IS-LM-BP Model 15 Currency substitution Model 16 Exchange rate volatility 17 Redux and Target zone Models 2 IV Balance of payment and Forex Management in India 9 18 Direction and composition of Balance of payments in India 2 20 Currency Convertibility 21 Exchange control Measures in India 22 Foreign Exchange Management in India-Fiscal, monetary and trade policy.  V Practical Insights into Balance of Payments Discussion - International Monetary System -Present and Future  Practical Assignments 1) Study about the recent trends of balance of payments in developing countries with special reference to India. OR	II		Foreign Exchange Rate	11	28
Parity, Purchasing Power Parity and Balance of Payment theory  7 Exchange Rate systems - fixed, flexible and Managed Floating  8 Different Types of Transactions in foreign Exchange Market  9 IMF and International Liquidity management.  3 Approaches to Balance of Payment and Exchange Rate  10 Monetary Approach to Balance of Payment  2 11 Portfolio Balance Approach  12 Exchange Rate overshooting  13 Internal and External Balance - Swan model  14 IS-L M- BP Model  15 Currency substitution Model  2 16 Exchange rate volatility  2 17 Redux and Target zone Models  2 18 Direction and composition of Balance of payments in India  18 Direction and composition of Balance of payments in India  20 Currency Convertibility  21 Exchange control Measures in India  22 Foreign Exchange Management in India- Fiscal, monetary and trade policy.  V Practical Insights into Balance of Payments  Discussion - International Monetary System - Present and Future  Practical Assignments 1) Study about the recent trends of balance of payments in developing countries with special reference to India. OR		5	Evolution and Functions of foreign exchange market	2	
Payment theory   7   Exchange Rate systems - fixed, flexible and Managed Floating   2   8   Different Types of Transactions in foreign Exchange Market   2   9   IMF and International Liquidity management.   3   3		6	<u> </u>	2	
8 Different Types of Transactions in foreign Exchange Market 9 IMF and International Liquidity management. 3  III Approaches to Balance of Payment and Exchange Rate 10 Monetary Approach to Balance of Payment 2 Exchange Rate overshooting 11 Portfolio Balance Approach 2 Exchange Rate overshooting 13 Internal and External Balance - Swan model 2 It IS- L M- BP Model 2 It IS- L M- BP Model 2 It Exchange rate volatility 2 It Redux and Target zone Models 2 It Redux and Target zone Models 2 It Balance of payment and Forex Management in India 2 It Borection and composition of Balance of payments in India 2 It Borection and composition of Balance of payments in India 2 It Exchange control Measures in India 2 It Exchange control Measures in India 2 It Exchange Management in India- Fiscal, monetary and trade policy.  V Practical Insights into Balance of Payments Discussion - International Monetary System - Present and Future Practical Assignments 1) Study about the recent trends of balance of payments in developing countries with special reference to India. OR			Payment theory		
9 IMF and International Liquidity management.   3		7	Exchange Rate systems - fixed, flexible and Managed Floating	2	
III Approaches to Balance of Payment and Exchange Rate  10 Monetary Approach to Balance of Payment  2 11 Portfolio Balance Approach 2 12 Exchange Rate overshooting 13 Internal and External Balance - Swan model 2 14 IS- L M- BP Model 2 15 Currency substitution Model 2 16 Exchange rate volatility 2 17 Redux and Target zone Models 2 18 Direction and composition of Balance of payments in India 2 19 BOP crisis in India 2 20 Currency Convertibility 2 1 Exchange control Measures in India 2 2 Foreign Exchange Management in India- Fiscal, monetary and trade policy.  V Practical Insights into Balance of Payments Discussion - International Monetary System — Present and Future  Practical Assignments 1) Study about the recent trends of balance of payments in developing countries with special reference to India. OR		8	Different Types of Transactions in foreign Exchange Market	2	
10 Monetary Approach to Balance of Payment 2  11 Portfolio Balance Approach 2  12 Exchange Rate overshooting 1  13 Internal and External Balance - Swan model 2  14 IS- L M- BP Model 2  15 Currency substitution Model 2  16 Exchange rate volatility 2  17 Redux and Target zone Models 2  18 Direction and composition of Balance of payments in India 2  19 BOP crisis in India 2  20 Currency Convertibility 1  21 Exchange control Measures in India 2  22 Foreign Exchange Management in India 5  18 Discussion - International Monetary System - Present and Future 6  10 Practical Assignments 1) Study about the recent trends of balance of payments in developing countries with special reference to India. OR		9	IMF and International Liquidity management.	3	
10 Monetary Approach to Balance of Payment  2	III	Ap	proaches to Balance of Payment and Exchange Rate	15	31
12 Exchange Rate overshooting 1				2	
12 Exchange Rate overshooting 1		11	Portfolio Balance Approach	2	
13 Internal and External Balance - Swan model 14 IS- L M- BP Model 2 15 Currency substitution Model 2 16 Exchange rate volatility 2 17 Redux and Target zone Models 2 18 Direction and composition of Balance of payments in India 2 19 BOP crisis in India 2 20 Currency Convertibility 21 Exchange control Measures in India 22 22 Foreign Exchange Management in India- Fiscal, monetary and trade policy.  V Practical Insights into Balance of Payments Discussion - International Monetary System - Present and Future Practical Assignments 1) Study about the recent trends of balance of payments in developing countries with special reference to India. OR		-			
14 IS- L M- BP Model 2		13		2	
16   Exchange rate volatility   17   Redux and Target zone Models   2     IV   Balance of payment and Forex Management in India   9     18   Direction and composition of Balance of payments in India   2     19   BOP crisis in India   2     20   Currency Convertibility   1     21   Exchange control Measures in India   2     22   Foreign Exchange Management in India- Fiscal, monetary and trade policy.   2     V   Practical Insights into Balance of Payments   30     Discussion - International Monetary System - Present and Future   Practical Assignments 1) Study about the recent trends of balance of payments in developing countries with special reference to India. OR		14		2	
IV Balance of payment and Forex Management in India  18 Direction and composition of Balance of payments in India  19 BOP crisis in India  20 Currency Convertibility  21 Exchange control Measures in India  22 Foreign Exchange Management in India- Fiscal, monetary and trade policy.  V Practical Insights into Balance of Payments  Discussion - International Monetary System —Present and Future  Practical Assignments 1) Study about the recent trends of balance of payments in developing countries with special reference to India. OR		15	Currency substitution Model	2	
Balance of payment and Forex Management in India   18   Direction and composition of Balance of payments in India   2   19   BOP crisis in India   2   20   Currency Convertibility   1   21   Exchange control Measures in India   2   22   Foreign Exchange Management in India- Fiscal, monetary and trade policy.   V   Practical Insights into Balance of Payments   30		16	Exchange rate volatility	2	
18 Direction and composition of Balance of payments in India 2 19 BOP crisis in India 2 20 Currency Convertibility 1 21 Exchange control Measures in India 2 22 Foreign Exchange Management in India- Fiscal, monetary and trade policy.  V Practical Insights into Balance of Payments 30 Discussion - International Monetary System –Present and Future  Practical Assignments 1) Study about the recent trends of balance of payments in developing countries with special reference to India. OR		17	Redux and Target zone Models		
19 BOP crisis in India 20 Currency Convertibility 21 Exchange control Measures in India 22 Foreign Exchange Management in India- Fiscal, monetary and trade policy.  V Practical Insights into Balance of Payments  Discussion - International Monetary System –Present and Future  Practical Assignments 1) Study about the recent trends of balance of payments in developing countries with special reference to India. OR	IV	Ba	lance of payment and Forex Management in India	9	18
20 Currency Convertibility 1 21 Exchange control Measures in India 2 22 Foreign Exchange Management in India- Fiscal, monetary and trade policy.  V Practical Insights into Balance of Payments 30  Discussion - International Monetary System –Present and Future  Practical Assignments 1) Study about the recent trends of balance of payments in developing countries with special reference to India. OR		18	Direction and composition of Balance of payments in India	2	
21 Exchange control Measures in India 2 22 Foreign Exchange Management in India- Fiscal, monetary and trade policy.  V Practical Insights into Balance of Payments 30  Discussion - International Monetary System –Present and Future  Practical Assignments 1) Study about the recent trends of balance of payments in developing countries with special reference to India. OR		19	BOP crisis in India	2	
22 Foreign Exchange Management in India- Fiscal, monetary and trade policy.  V Practical Insights into Balance of Payments 30  Discussion - International Monetary System –Present and Future  Practical Assignments 1) Study about the recent trends of balance of payments in developing countries with special reference to India. OR		20	Currency Convertibility	1	
trade policy.  V Practical Insights into Balance of Payments 30  Discussion - International Monetary System –Present and Future  Practical Assignments 1) Study about the recent trends of balance of payments in developing countries with special reference to India. OR		21	Exchange control Measures in India	2	
V Practical Insights into Balance of Payments  Discussion - International Monetary System —Present and Future  Practical Assignments 1) Study about the recent trends of balance of payments in developing countries with special reference to India. OR		22		2	
Discussion - International Monetary System –Present and Future  Practical Assignments 1) Study about the recent trends of balance of payments in developing countries with special reference to India. OR	V		· •	30	
Future  Practical Assignments 1) Study about the recent trends of balance of payments in developing countries with special reference to India. OR	•			50	
balance of payments in developing countries with special reference to India. OR					
balance of payments in developing countries with special reference to India. OR					
2) Compare and contrast BoP Account Statement of India and					
USA.					
Seminar Discuss the role of IMF as a global financial					

	controller.	

#### REFERENCE:

1. Dominick Salvatore (2014) International Economics Trade and Finance – Eleventh Edition Wiley( Module I,Il & Ill )

#### **ADDITIONAL READINGS**

- 1. Sodersten, Bo and Geoffrey Reed, *International Economics*. Macmillan Education Ltd 1998.
- 2. Gandolfo (2002), International Finance and Open economy Macroeconomics ,Springer ,Tokyo.
- 3. Pilbeam ,Keith(2006) ,International Finance ,Palgrave McMillan New York(Module III)
- 4. Grath. A(2008), International Trade and Finance, London
- 5. Kindleberger, C.P, International Economics, R.D. Irwin, Homewood
- 6. Bhagwati, J.N(Ed), International Trade: Selected Readings, MIT press, 1987.

#### MAPPING OF COS WITH PSOS:

	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6	PO1	PO2	PO3	PO4	PO5	PO6	PO7
CO 1	3	-	-	-	-	-	1	-	-	-	ı	-	ı
CO 2	-	3	-	2	2	-	1	-	3	-	ı	-	1
CO 3			-	2	-	-	-	-	-	-	2	-	-
CO 4	-		1	2	3	2	1	-	-	-	ı	-	2
CO 5	3	-	-	-	3	-	-	-	2	-	-	-	-

#### **CORRELATION LEVELS:**

Level	Correlation
-	Nil
1	Slightly / Low
2	Moderate / Medium
3	Substantial / High

### **ASSESSMENT RUBRICS:**

- Quiz / Assignment/ Viva Voce/ Discussion / Seminar
   Internal Exam
- 3. Practical Assignments (20%)
- 4. Final Exam (70%)

	Internal Exam	Quiz / Assignment/ Viva Voce/ Discussion / Seminar	Practical Assignment	End Semester Examination
CO 1	<b>\</b>	<b>✓</b>		<b>✓</b>
CO 2	<b>√</b>	✓	<b>√</b>	<b>√</b>
CO 3	<b>√</b>	<b>✓</b>	<b>√</b>	<b>√</b>
CO 4	<b>√</b>	✓	<b>√</b>	<b>√</b>
CO 5	✓	✓	✓	

Programme	B.A. Economics Hon	B.A. Economics Honours								
Course Title	DEVELOPMENT I	DEVELOPMENT ISSUES IN KERALA								
Type of Course	Major									
Semester	VII									
Academic Level	400 - 499									
Course Details	Credit	Total Hours								
		per week	per week	per week						
	4	3	-	2	75					
Course Summary	The course covers dev	velopmental	experiences of	of Kerala, Den	nography, Human					
	Development and So	ocial Inclusi	on, Populati	on and Huma	an Development,					
	Development Issues,	state finance	and plannin	g. It also cove	ers assignment on					
	identification of data base on Kerala Economy and discussion regarding the									
	Economic Review a	and the Stat	e Budgets a	nd Prepare r	reports based on					
	discussions.									

CO	CO Statement	Cognitive	Knowledge	<b>Evaluation Tools used</b>
		Level*	Category#	
CO	Students will be able to To	U	F	Instructor-created exams
1	understand the			/ Discussions/ Quiz
	developmental experiences of			
	Kerala Economy.			
CO	Students will be able to	U	F	Instructor-created
2	examine the population changes,			exams/ Discussions/Quiz
	Human Development and			
	Inclusive growth in Kerala			
CO	Students will be able to	U	P	Instructor-created
3	understand and examine the			exams/ Seminar
	major development issues of			Presentation /
	Kerala.			Discussion/Quiz
CO	Students will be able to	U	P	Instructor-created exams
4	understand state finances and			/ Group Discussion/
	planning in Kerala and enable			Assignments/ Quiz
	them to be a part of policy			
	implementation.			
CO	Students will be able to	U	F	Group Discussion/
5	understand data base on Kerala			Viva Voce
	Economy, conduct a discussion			
	and prepare reports			

<sup>\* -</sup> Remember (R), Understand (U), Apply (Ap), Analyse (An), Evaluate (E), Create (C)

<sup># -</sup> Factual Knowledge(F) Conceptual Knowledge (C) Procedural Knowledge (P) Metacognitive Knowledge (M)

<b>Module</b>	Unit	Content	Hrs	Marks
I		Development Experiences of Kerala	10	17
	1	Economic Growth in Kerala	2	
	2	Structural Transformation in Kerala	2	
	3	Sectoral performance and Development of Infrastructure in	2	
		Kerala		
	4	Kerala Model of Development	2	
	5	Rebuild Kerala Initiative	2	
II	D	emography, Human Development and Social Inclusion	14	34
	6	Changing Demographic Profile in Kerala	2	
	7	Labour, Employment and Skill Development	2	
	8	2		
	9	2		
	10	2		
	11	2		
	12	Social Security Measures in Kerala		
III		Development Issues of Kerala Economy	11	30
	12	Unemployment: Causes, Trend and Consequences	2	
	13	Growth of Informal Sector in Kerala	2	
	14	Greying Population: Trend, Concern and Challenges	2	
	15	Banking and Tourism	2	
	16	External Sector in Kerala: External Trade- Pattern and Trend.	3	
IV		State Finance and Planning	10	17
	18	Financial Indicators of State Government	2	
	19	Fiscal Deficit and Public Debt	2	
	20	People's Plan Campaign and Decentralized Planning	2	
	21	Fiscal Decentralization: Achievements and Challenges in Kerala	2	
	22	Inclusive Growth in Kerala	2	
V		Identification of data base on Kerala Economy	30	
	1	Assignment on identification of data base on Kerala Economy and interpretation of the given data		
	2	Conduct a discussion regarding the Economic Review and the State Budgets and ensure a debate/quiz related to the various budgets		
	3	Prepare reports based on discussions		

#### **REFERENCES:**

- 1. Oommen, M.A. (1999) Rethinking Development: Kerala's Development Experience, Concept, New Delhi.
- 2. Prakash, B.A. (2004) Kerala's Economic Development: Performance and Prospects in the Post Liberalisation Period, Sage Publications, New Delhi.
- 3. Mani, Sunil (2020) Kerala and the World Economy, Centre for Development Studies (Under the aegis of Govt. Of Kerala & Indian Council of Social Science Research), Thiruvananthapuram.
- 4. Zachariah K.C & Irudaya Rajan.S (2013) Diaspora in Kerala's Development, Daanish Books,
- 5. Prakash, B.A.&Jerry Alwin (2018) Kerala's Economic Development: Emerging Issues and Challenges, Sage Publications, New Delhi
- 6. Sundar Ramanathaiyer & Stewart Macpherson (2000) Social Development in Kerala: Illusion and Reality? Ashgate Publishing, UK.
- 7. State Urbanization Report 2012.
- 8. Kerala Migration Survey Report 2018
- 9. Kerala Development Report 2021
- 10. Kerala Economic Review for various years.

#### MAPPING OF COS WITH PSOS:

	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6	PO1	PO2	PO3	PO4	PO5	PO6	PO7
CO 1	1	-	-	1	1	3	1	-	-	-	-	-	-
CO 2		2	-	1	-	3	ı	-	3	-	-	-	-
CO 3	-	2	-	2	4	3	ı	-	-	-	2	-	-
CO 4	1	2	3	1	-	3	ı	-	-	-	-	-	2
CO 5	1	_	-	-	-	3	-	-	2	_	_	_	-

# **CORRELATION LEVELS:**

Level	Correlation
-	Nil
1	Slightly / Low
2	Moderate / Medium
3	Substantial / High

# **ASSESSMENT RUBRICS:**

- Quiz / Assignment/ Viva Voce/ Discussion / Seminar
- Internal Exam
- Practical Assignments (20%)
- Final Exam (70%)

	Internal Exam	Quiz / Assignment/ Viva Voce/ Discussion / Seminar	Practical Assignment	End Semester Examination
CO 1	✓	<b>✓</b>		✓
CO 2	✓	✓		✓
CO 3	<b>√</b>	✓		✓
CO 4	√	✓		✓
CO 5		✓		

Programme	B.A. Economics Honours				
Course Title	MACROECONO	MIC MODE	LS AND MI	EASUREME	NT
Type of Course	Major				
Semester	VIII				
Academic Level	400 - 499				
	Credit	Lecture	Tutorial	Practical	Total
Course Details		per week	per week	per week	Hours
	4	3	-	2	75
Pre-requisites	Macroeconomics Co	ourse of level	1 300 – 399		
Course Summar This course is a modern approach to macroeconomics by build macroeconomic models from microeconomic principles, consistent w					

CO	CO Statement	Cognitive Level*	Knowledge Category#	Evaluation Tools used
CO1	Gain deeper insights into economic growth processes and business cycles.	U	C	Instructor- created exams / Quiz
CO2	Integrate the study of macroeconomics with approaches in courses in microeconomics and in field courses in economics	Ap	Р	Seminar Presentation / Group Discussion
CO3	Develop a comprehensive and broad perspective of what macroeconomic theory is today	U	Р	Seminar Presentation / Group Discussion
CO4	Apply macroeconomic models and tools in specific contexts and to particular problems	E	Р	Instructor- created exams / Home Assignments
CO5	Construct models suitable for specific contexts	С	F	Practical Assignment / Observation of Practical Skills

<sup>\* -</sup> Remember (R), Understand (U), Apply (Ap), Analyse (An), Evaluate (E), Create (C)

<sup># -</sup> Factual Knowledge(F) Conceptual Knowledge (C) Procedural Knowledge (P) Metacognitive Knowledge (M)

Module	Unit	Content	Hrs	Marks
		<b>Measurement Issues in Macroeconomics</b>	13	27
	1	Macroeconomic Models	2	
	2	Microeconomics Principles behind Macroeconomic Models	2	
	3	Disagreements in Macroeconomics	2	
	4	What do we learn from Macroeconomic Analysis	2	
I	5	Labour Market measurement: unemployment rate, participation rate, employment/population ratio	2	
	6	<b>Business</b> cycle measurement: Regularities in GDP Fluctuations, Co-movement among economic time series, co-movements between the price level and real GDP and between the inflation rate and real GDP, co-movements among labor market variables and real GDP	3	
		Closed Economy One Period Macroeconomic Model	12	22
	7	Competitive equilibrium	2	
	8	Optimality	2	
II	9	Sources of social inefficiency	2	
	10	Effects of change in government purchases	2	
	11	Effects of change in total factor productivity	2	
	12	Effects of a distorting labour income tax	2	
		Two Period Model of Consumption-Savings Decision	11	25
	13	Two Period Model of the Economy	2	
	14	The Consumer's Lifetime Budget Constraint	1	
	15	The Consumer's Preferences	1	
III	16	Consumer Optimization	1	
		How the consumer responds to changes in his or her current		
	17	income, future	2	
		income, and the market real interest rate		
	18	Competitive equilibrium	2	
	19	The Ricardian Equivalence Theorem	2	
		Money, Banking, Prices and Monetary Policy	9	24
IV	20	Monetary Intertemporal Model – Fisher relation – Competitive equilibrium	3	
•	21	Money neutrality in the monetary intertemporal model.	3	
	22	3		
	<i></i>	Unconventional Monetary Policy		
V	Cons	truction of Macroeconomic Models with reference to Indian  Economy	30	

Practical assignments to measure labour market related concepts in India	
Presentation of macroeconomic model constructed in Indian	
context	
Group discussions on social inefficiency	
Debate: Conventional Vs Unconventional Monetary Policy	

#### REFERENCE:

1. Williamson, S. D. (2017). *Macroeconomics*, Global Edition. Pearson Higher Ed. (All modules)

### **ADDITIONAL READINGS**

- 1. Romer, D. (2019). Advanced Macroeconomics. McGraw-Hill/Irwin.
- 2. Hoover, K. D. (2012). Applied Intermediate Macroeconomics. Cambridge University Press.
- 3. Ljungqvist, L., & Sargent, T. J. (2018). *Recursive Macroeconomic Theory, fourth edition*.

  MIT Press.

### MAPPING OF COS WITH PSOS:

	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6	PO1	PO2	PO3	PO4	PO5	PO6	PO7
CO 1	3	-	-	-	1	-	1	-	ı	ı	ı	-	ı
CO 2	-	3	-	2	2	1	1	-	3	-	-	-	ı
CO 3	-		-	2	3	-	-	-	-	-	2	-	-
CO 4	-		1	2	3	1	-	-	-	-	-	-	2
CO 5	-	-	-	1	2	-	-	-	2	-	-	-	-

# **CORRELATION LEVELS:**

Level	Correlation
-	Nil
1	Slightly / Low
2	Moderate / Medium
3	Substantial / High

# **ASSESSMENT RUBRICS:**

Quiz / Assignment/ Viva Voce/ Discussion / Seminar
Internal Exam
Practical Assignments
Final Exam (70%)

	Internal Exam	Quiz / Assignment/ Viva Voce/ Discussion / Seminar	Practical Assignment	End Semester Examination
CO 1	<b>✓</b>	<b>✓</b>		<b>&gt;</b>
CO 2	<b>√</b>	<b>✓</b>		<b>✓</b>
CO 3	<b>√</b>	<b>√</b>		<b>√</b>
CO 4	✓	✓		✓
CO 5		✓	✓	

Programme	B.A. Economics Honours				
Course Title	APPLIED MICRO	OECONOM	ICS AND E	VALUATION	V
Type of Course	Major				
Semester	VIII				
Academic Level	400 - 499				
Course Details	Credit	Lecture	Tutorial	Practical	Total
		per week	per week	per week	Hours
	4	4	-	-	60
Pre-requisites	Microeconomics co	ourse of 300 -	– 399 level		
Course Summary	This course provides different aspects of microeconomic analysis while				
	emphasizing real-world economic problems and incorporating				
	coverage of the mo	st innovative	subjects in the	ne discipline.	

CO	CO Statement	Cognitiv e	Knowledge Category#	Evaluation Tools used
		Level*	Category#	Tools used
CO 1	Understand mechanism of market	U	F	Instructor-created exams / Quiz
CO 2	Analyse the market situation when externality is present	An	Р	Instructor-created exams / Quiz
CO 3	Evaluate market working with asymmetric information	E	Р	Seminar Presentation / Group Discussion
CO 4	Apply economic theory to solve welfare maximization problems and for fair allocation	Ap	Р	Instructor-created exams / Home Assignments/Viva - voce
CO 5	Create a model for depicting the real nature of welfare of society	С	M	Practical Assignment / Observation of Practical Skills

<sup>\* -</sup> Remember (R), Understand (U), Apply (Ap), Analyse (An), Evaluate (E), Create (C) # - Factual Knowledge(F) Conceptual Knowledge (C) Procedural Knowledge (P) Metacognitive Knowledge (M)

Module	Uni	Content	Hr	Marks
	t		S	
Ι		Exchange	18	28
	1	Market Trade	2	
	2	The Algebra of Equilibrium	2	
	3	Walras' Law	2	
	4	Relative Prices	2	
	5	The Existence of Equilibrium	2	
	6	Equilibrium and Efficiency	2	
	7	The Algebra of Efficiency	2	
	8	Implications of the First Welfare Theorem	2	
	9	Implications of the Second Welfare Theorem	2	
II		Welfare	10	25
	10	Aggregation of Preferences	2	
	11	Social Welfare Functions	2	
	12	Welfare Maximization	2	
	13	Individualistic Social Welfare Functions	2	
	14	Fair Allocations, Envy and Equity	2	
III		Externalities	10	20
	15	Quasilinear Preferences and the Coase Theorem	3	
	16	Production Externalities	3	
	17	Market Signals	2	
	18	The Tragedy of the Commons	2	
IV		Asymmetric Information	10	25
	19	The Market for Lemons, Quality Choice, Adverse Selection	4	
	20	Moral Hazard, Moral Hazard and Adverse Selection	3	
	21	Signalling	2	
	22	Incentives	1	
V		Application of Microeconomic Theories in India	12	
		<b>Discussion</b> based on welfare effects of pollution and environmental		
		degradation in India		
		Practical Assignments on calculation of producer and consumer		
		welfare in a given market		
		<b>Seminar</b> on how changes in policy alter the market equilibrium and		
		impact social welfare		

# REFERENCE:

1. Varian, H. R. (2014). *Intermediate Microeconomics with Calculus: A Modern Approach: Interna- tional Student Edition*. W. W. Norton & Company. (All modules)

# **ADDITIONAL READINGS**

1. Mas-Colell, A., Whinston, M. D., & Green, J. R. (2018). Microeconomic Theory.

- 2. Munoz-Garcia, F. (2017). Advanced Microeconomic Theory: An Intuitive Approach with Examples. MIT Press.
- 3. Schotter, A. (2009). *Microeconomics: A Modern Approach*.

# MAPPING OF COS WITH PSOS:

	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6	PO1	PO2	PO3	PO4	PO5	PO6	PO7
CO 1	3	-	1	1	-	-	3	1	-	1	1	1	1
CO 2	-	-	1	3	2	-	2	1	3	ı	-	1	1
CO 3	-	-	ı	2	3	-	1	2	-	1	-	3	1
CO 4	-	-	-	3	-	-		-	-	-	2	-	-
CO 5	_	-	_	-	-	3	-	-	-	-	2	-	-

# **CORRELATION LEVELS:**

Level	Correlation				
-	Nil				
1	Slightly / Low				
2	Moderate / Medium				
3	Substantial / High				

# **ASSESSMENT RUBRICS:**

Quiz / Assignment/ Viva Voce/ Discussion / Seminar
Internal Exam
Practical Assignments (20%)
Final Exam (70%)

	Internal Exam	Quiz / Assignment/ Viva Voce/ Discussion / Seminar	Practical Assignment	End Semester Examination
CO 1	<b>✓</b>	<b>✓</b>		✓
CO 2	<b>√</b>	✓		✓
CO 3	<b>√</b>	✓		✓
CO 4	<b>√</b>	✓		√
CO 5			✓	

Programme	B.A. Economics Ho	B.A. Economics Honours						
Course Title	HETERODOX EC	HETERODOX ECONOMICS						
Type of Course	Major	Major						
Semester	VIII	VIII						
Academic Level	0 40 <b>-</b> 499							
Course Details	Credit	Lecture	Tutorial	Practical	Total			
		per week	per week	per week	Hours			
	4	4	-	ı	60			
Course Summary	This course intends to provide an alternative perception to the economic							
	theories, principles	and concepts	•					

СО	CO Statement	Cognitive Level*	Knowledge Category#	Evaluation Tools used
CO 1	Students will be able to understand the alternative approach to economics	U	C	Instructor-created exams / Practical Assignment
CO 2	Students will be able toUnderstand the various theories of value and the heterodox theories of distribution.	U	С	Assignments / Quiz
CO 3	Students will be able to apply the micro-macro links from the perspective of heterodox economics.	Ap	С	Observation of Practical Skills / Group Discussion
CO 4	Students will be able to apply aggregation problems from a different perspective and redefine welfare accordingly	Ap	С	Observation of Practical Skills / Home Assignments
CO 5	Students will be able to understand systemist framework to evaluate real-world economic problems and issues.	Е	С	Group Discussion / Instructor-created exams

<sup>\* -</sup> Remember (R), Understand (U), Apply (Ap), Analyse (An), Evaluate (E), Create (C)

<sup># -</sup> Factual Knowledge(F) Conceptual Knowledge (C) Procedural Knowledge (P) Metacognitive Knowledge (M)

Module	Unit	Content	Hrs	Marks
I		A Heterodox View of the Economy	8	12
	1	What is heterodox economics?	1	
	2	Evolution of heterodox economics	2	
	3	From classical political economy to neoclassical economics	1	
	4	From classical political economy to heterodox economics	1	
	5	Heterodox economic theory and the social provisioning process.	3	
II	Modu	le 2: Heterodox Theories of Value	10	14
	6	Theory of Value by Adam Smith	2	
	7	Ricardo's conception of value	2	
	8	Marxian approach to value	2	
	9	Sraffa's approach	4	
III	Modu	le 3: Heterodox Theories of Distribution	15	32
	10	Recent developments in heterodox theories	3	
	11	Classical and Marxian theory	3	
	12	Cambridge theory	2	
	13	Neo-Kaleckian theory	2	
	14	The functional-size distribution nexus - Different sectors and different classes	2	
	15	Econo-physics and the 'two-class theory of income distribution'	3	
IV	Modu	le 4: Micro- Macro link in Heterodox Economics	17	32
	16	Aggregates and aggregation in science	2	
	17	A heterodox perspective on the micro-macro link: The whole is more than the sum of its parts	3	
	18	Relations matter: There is real novelty	2	
	19	Aggregation and Welfare	2	
	20	Systemism as a general framework	2	
	21	Systemism and heterodoxy - key ideas and concepts	2	
	22	Heterodox economics in a systemist framework	2	
V		Feminist Economics and ecological economics	8	8
		Discussion based on Feminist Economics, Ecological Economics and Radical Economics		
		Seminars to discuss and evaluate the state of affairs and policy		
		related to women and ecology.		
		Group discussion and Assignments to understand radical economics.		

# **REFERENCE:**

**1.** Jo, T., Chester, L., & D'Ippoliti, C. (2017). *The Routledge Handbook of Heterodox Economics: Theorizing, Analyzing, and Transforming Capitalism*. Routledge.

# **ADDITIONAL READINGS**

1. Mearman, A., Berger, S., & Guizzo, D. (2019). What is Heterodox Economics?: Conversations with

- Leading Economists. Routledge.
- 2. Lee, F. (2009). A history of heterodox economics: Challenging the mainstream in the twentieth century. Routledge.
- 3. Hermann, A., & Mouatt, S. (2020). *Contemporary issues in Heterodox Economics: Implications for Theory and Policy Action*. Routledge.
- 4. Armstrong, P. (2020). *Can heterodox economics make a difference?: Conversations With Key Thinkers*. Edward Elgar Publishing.
- 5. Harvey, J. T., & Garnett, R. F. (2008). *Future directions for heterodox economics*. University of Michigan Press.
- 6. Lee, F. S., & Lavoie, M. (2012). *In defense of Post-Keynesian and heterodox economics: Responses to Their Critics*. Routledge.

### MAPPING OF COS WITH PSOS:

	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6	PO1	PO2	PO3	PO4	PO5	PO6	PO7
CO 1	3	-	2	-	3		3	-	-	-	1	-	-
CO 2	3	-	-	-	-	2	2	1	3	-	-	-	1
CO 3	-	-	1	-	-	3	1	2	-	-	-	3	-
CO 4	-	-	-	-	-	-		-	-	-	2	-	2
CO 5	-	1	-	3	5	2	-	-	-	-	2	-	1

### **CORRELATION LEVELS:**

Level	Correlation			
-	Nil			
1	Slightly / Low			
2	Moderate / Medium			
3	Substantial / High			

# **ASSESSMENT RUBRICS:**

- Quiz / Assignment/ Viva Voce/ Discussion / Seminar
- Internal Exam
- Practical Assignments (20%)
- Final Exam (70%)

	Internal Exam	Quiz / Assignment/ Viva Voce/ Discussion / Seminar	Practical Assignment	End Semester Examination
CO 1	✓	<b>✓</b>		✓
CO 2	✓	<b>√</b>	✓	✓
CO 3	√	✓	✓	✓
CO 4	√	✓		✓
CO 5	✓	✓		✓

Programme	B.A. Economics Hon	B.A. Economics Honours							
Course Title	METHODS FOR QUANTITATIVE RESEARCH IN ECONOMICS								
Type of Course	Major	Major							
Semester	VIII	VIII							
Academic Level	400 - 499	400 - 499							
Course Details	Credit	Lecture	Tutorial	Practical	Total Hours				
		per week	per week	per week					
	4	4	1		60				
Pre-requisites	Economics course of	300 – 399 le	vel						
Course	This course provides	a compreh	ensive found	lation in rese	arch design and				
Summary	statistical analysis tec	chniques for e	economic res	earch, coverin	ng topics such as				
	research methodology	y, data collec	tion methods	s, statistical a	nalysis, software				
	applications, and a	dvanced top	pics includi	ng regression	n analysis and				
	econometrics, with a	econometrics, with a focus on ethical considerations throughout the							
	research process.								

CO	CO Statement	Cognitiv	Know	Evaluation
		e Level*	ledge	Tools used
			Categ	
			ory#	
CO1	Understanding the fundamental principles of	U	F	Instructor-
	research design, including different types of			created exams /
	research			Quiz
	methodologies and sampling techniques.			
CO2	Apply various statistical analysis techniques, such	Ap	P	Seminar/Assig
	as hypothesis testing, regression analysis, and			nment
	econometric methods			
CO3	Analyze research problems, identifying gaps in	Е	F	Seminar
	existing literature, formulating meaningful research			Presentation /
	questions, and selecting appropriate			Group
	research designs to address these questions.			Discussion
CO4	Synthesize information from various sources,	Ap	P	Instructor-
	including primary and secondary data, to create			created exams /
	well-constructed and logically organized research			Home
	proposals and projects.			Assignments
CO5	Evaluate the reliability and validity of research	Е	C	Instructor-
	findings, interpret statistical results, and			created exams /
	communicate their research effectively through			Home
	written reports and presentations. They will also.			Assignments

CO	Create comprehensive research projects that	Ap P	
6	demonstrate a mastery of quantitative research		

methods in the field of economics

# DETAILED SYLLABUS:

Modul	Unit	Content	Hrs	Marks	
e					
Ι	Foun	dations of Research Design	12	26	
	1	Introduction to Research Methodology - Definition and importance of research	2		
	2	Types of research- exploratory, descriptive, explanatory	1		
	3	2			
		research gaps - Developing research objectives and hypotheses			
	4	Research Design and Types - Experimental vs. non-	3		
		experimental designs - Cross-sectional vs. longitudinal designs - Quasi-experimental designs			
	5	Sampling Techniques - Probability and non-probability sampling methods- Sample size determination	3		
	6	Sampling errors and biases	1		
II	Data Collection Methods		12	23	
	7	Survey Research - Questionnaire design and construction -	2		
	8	Sampling in surveys – Pilot survey - Survey administration and	3		
		data collection			
	9	Validity and Reliability – Test of Validity and reliability	2		
	10	Randomized control trials - Experimental and control groups	2		
	11	Secondary Data - Utilizing existing datasets	2		
	12	Ethical considerations in data collection	1		
III	Statis	tical Analysis Techniques	12	23	
	13	Descriptive Statistics - Frequency distributions - Graphical representation of data	3		
	14	Inferential Statistics - Hypothesis testing- Confidence intervals	3		
		- t-tests, ANOVA, ANCOVA,			
	15	Correlation Regression analysis.	2		
	16	Data Interpretation - Communicating statistical findings effectively - Presentation: Creating visualizations and tables	4		
IV	Softw	are Applications and Advanced Topics	12	26	
	17	Introduction to Statistical Software - Familiarisation of software like R /Python/SPSS	3		
	18	Data import, cleaning and basic analysis	1		
	1	· · · · · · · · · · · · · · · · · · ·			

<sup>\* -</sup> Remember (R), Understand (U), Apply (Ap), Analyse (An), Evaluate (E), Create (C)

<sup>#</sup> - Factual Knowledge (F) Conceptual Knowledge (C) Procedural Knowledge (P) Metacognitive Knowledge (M)

	19	Advanced Regression Analysis - Multiple regression - Logistic	3	
		regression Model diagnostics		
	20	Econometrics in Economic Research - Time-series analysis	2	
	21	Panel data analysis- Instrumental variable methods.	2	
	22	Research ethics.	1	
V	Qua	ntitative Research in economics	12	
		<b>Discussion</b> : Identify a research paper (Qualitative research		
		work)		
		<b>Practical Assignments:</b> Review of various research works and		
		identify different research methods		
		<b>Seminar:</b> Prepare a research proposal and present it		

#### REFERENCE:

- 7. "Research Methodology: A Step-by-Step Guide for Beginners" by Ranjit Kumar New age international Publishers.
- 8. Research Methodology in Social Sciences Paperback by Shridhar Patil & Aditya New India Publishing Agency
- 9. Methodology of Research In Social Sciences, Krishnaswamy, O.R. Himalya publishing House,
- 10. Research Methodology in Social Sciences" by Devendra Thakur Deep & Deep Publications

### **ADDITIONAL READINGS**

- 1. Bryman, A. (2016). Social Research Methods. Oxford University Press.
- 2. Bordens, K. S., & Abbott, B. B. (2002). Research design and methods: A process approach. McGraw-Hill.
- 3. Bairagi, V., & Munot, M. V. (Eds.). (2019). Research methodology: A practical and scientific approach. CRC
  - i. Press.
- 4. Creswell, J. W., & Creswell, J. D. (2017). Research design: Qualitative, quantitative, and mixed methods approaches. Sage publications

#### MAPPING OF COS WITH PSOS:

	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6	PO1	PO2	PO3	PO4	PO5	PO6	<b>PO7</b>
CO 1	3	1	-	-	-	-	2	-	3	-		-	-
CO 2	-	-	-	3	-	-	2	-	3	-	-	-	1
CO 3	-	-	-	3	-	3	1	2	-	-	-	3	-
CO 4	-	-	1	-	-	1		-	-	-	2	1	-
CO 5	-	-	-	-	2	-	-	-	ı	ı	2	-	3
CO6	-	-	_	_	_		3	-	_				

# **CORRELATION LEVELS:**

Level	Correlation
-	Nil
1	Slightly / Low
2	Moderate / Medium
3	Substantial / High

# **ASSESSMENT RUBRICS:**

Quiz / Assignment/ Viva Voce/ Discussion / Seminar
Internal Exam
seminar / Assignments (20%)
Final Exam (70%)

	Internal Exam	Quiz / Assignment/ Viva Voce/ Discussion / Seminar	Seminar /Assignment	End Semester Examination
CO 1	✓	✓		✓
CO 2	✓	✓	✓	✓
CO 3	✓	✓	✓	✓
CO 4	✓	✓	✓	✓
CO 5	✓	✓	✓	

Programme	B.A. Economics Hon	B.A. Economics Honours					
Course Title	METHODS FOR Q	UALITATI	VE RESEA	RCH IN ECO	ONOMICS		
Type of Course	Major						
Semester	VIII						
Academic Level	400 - 499						
Course Details	Credit	Lecture	Tutorial	Practical	Total		
		per week	per week	per week	Hours		
	4	4	-	-	60		
Pre-requisites	Economics course of	300 – 399 le	evel				
Course	This course provides	a comprehe	nsive overvi	ew of qualita	tive research		
Summary	methods in economic	s, covering to	ppics such as	philosophical	foundations,		
	research design, s	ampling, d	ata collecti	on techniqu	es, analysis		
	techniques, interpretation, and advanced topics including ethical						
	considerations and th	considerations and the integration of qualitative methods with big data					
	approaches.						

CO	CO Statement	Cognitive	Knowledge	Evaluation
		Level*	Category#	Tools used
CO1	Understand the philosophical	U	F	Instructor-
	foundations of qualitative research,			created
	distinguishing between post-positivism,			exams /
	critical			Quiz
	realism, and constructivism.			
CO2	Analyse data skillfully, through	An	P	Practical
	advanced approaches like discourse			Assignment
	analysis and ethnographic content			
	analysis, synthesizing information from			
	diverse sources.			
CO3	Evaluate critically, ethical challenges in	Е	F	Seminar
	advanced qualitative research designs			Presentation
	and assess the strengths and limitations			/ Group
	of various qualitative methods.			Discussion
CO4	Design and justify complex qualitative	Ap	P	Instructor-
	research studies utilizing advanced			created
	methodologies such as multi- method			exams /
	approaches and case studies.			Home
				Assignments

CO5	Apply emerging trends in qualitative	Ap	F	Instructor-
	research, including big data and			created
	digital ethnography to produce an			exams /
	original publishable-quality research			Home
	paper.			Assignments

<sup>\* -</sup> Remember (R), Understand (U), Apply (Ap), Analyse (An), Evaluate (E), Create ©

<sup># -</sup> Factual Knowledge(F) Conceptual Knowledge (C) Procedural Knowledge (P) Metacognitive Knowledge (M)

Modul	Unit	Content	Hrs	
e I		Introduction to Qualitative Research in Economics	16	34
_	1	Overview of Research Methods – Quantitative and qualitative	2	
		strength and limitations of Qualitative research.		
	2	Philosophical Foundations - Understanding ontology and	3	
		epistemology in qualitative research - Positivism -		
		constructivism – Critical realism		
	3	Review of literature	2	
	4	Formulation of research problem - Identification	3	
		conceptualization and operationalization of the problem		
	5	Research Design in Qualitative Research - Defining research	3	
		questions and objectives		
	6	Choosing appropriate qualitative research designs - Case study,	3	
		grounded theory, ethnography, and phenomenology		
II	Sam	pling and Data Collection Techniques in Qualitative Research	12	26
	7	Sampling methods: Purposeful sampling technique- Snowball	3	
		sampling - Critical case sampling-Theoretical sampling.		
	8	Data collection methods: In-Depth Interviews - Focus Group	3	
		Discussions - Observation		
	9	Document Analysis -Examining primary and secondary sources	2	
	10	Multi method approach	2	
	11	Case study approach	2	
III	Data	Analysis in Qualitative Research	10	19
	12	Techniques: Thematic analysis - Content analysis - Constant	2	
		comparative analysis		
	13	Coding and categorization- Discourse analysis- Narrative	2	
		analysis.		
	14	Scaling Techniques: Likert Scale – Thurstone scale – Guttman	2	
		scale		
	15	Introducing Qualitative Data Software	2	
	16	Interpretation and Writing	2	
	17	Hermeneutics. The role of theory in qualitative research in	2	
		economics		
IV	Adva	nced Topics in Qualitative Research in Economics	10	19
	18	Recent trends and issues in Qualitative research	2	
	19	Power Dynamics And reflexivity	2	
	20	Big data and qualitative Research methods	2	
	21	Ethical considerations specific to qualitative research.	2	
	22	Evaluating the impact of economic policies	2	
V		ewing Research	12	
•	MENIE	wing research	14	

<b>Discussion</b> : Identify a research paper (Qualitative research	
work)	
Practical Assignments: Preparation of interview Shedule/	
questionnaire	
Seminar: Review a research paper and present it	

#### REFERENCE:

- 1. Qualitative research methods in economics: A practical guide. Uwe Flick -Sage Publications Ltd.
- 2. Research Methodology in Social Sciences Paperback by Shridhar Patil & Aditya New India Pub- lishing Agency
- 3. Krishnaswamy, O.R. Methodology of Research In Social Sciences, Himalya publishing House, 1993

#### **ADDITIONAL READINGS**

- 4. Bryman, A. (2016). Social Research Methods. Oxford University Press.
- 5. Bordens, K. S., & Abbott, B. B. (2002). Research design and methods: A process approach. McGraw-Hill.
- 6. Bairagi, V., & Munot, M. V. (Eds.). (2019). Research methodology: A practical and scientific approach. CRC

  Press.
- 7. Creswell, J. W., & Creswell, J. D. (2017). Research design: Qualitative, quantitative, and mixed methods approaches. Sage publications

#### MAPPING OF COS WITH PSOS:

	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6	PO1	PO2	PO3	PO4	PO5	PO6	PO7
CO 1	1	1	-	-	-	-	-	-	3	-	-	2	2
CO 2	-	-	3		2	-	-	-	2	-	3	-	2
CO 3	-	-	-	3	-	2	3	-	-	-	-	-	3
CO 4	-	-	-	3	-	-	1	-	2	-	3		3
CO 5	_	_	-	2-	_	3		2	2		2		3

# **CORRELATION LEVELS:**

Level	Correlation
-	Nil
1	Slightly / Low
2	Moderate / Medium
3	Substantial / High

# **ASSESSMENT RUBRICS:**

Quiz / Assignment/ Viva Voce/ Discussion / Seminar
Internal Exam
Practical Assignments (20%)
Final Exam (70%)

	Internal Exam	Quiz / Assignment/ Viva Voce/ Discussion / Seminar	Practical Assignment	End Semester Examination
CO 1	✓	✓		✓
CO 2	✓	✓		✓
CO 3	✓	✓	✓	✓
CO 4	✓	✓	✓	✓
CO 5	✓	✓	✓	

Elective Courses in Economics

Programme	B.A. Economics Honours								
Course Title	GENDER ANALYS	GENDER ANALYSIS IN ECONOMICS							
Type of Course	Elective								
Semester	V								
Academic Level	300-399								
Course Details	Credit	Lecture	Tutorial	Practical	Total				
		per week	per week	per week	Hours				
	4	4	-	-	60				
Pre-requisites	Basic Economics Co	urse of 200 -	- 299 level						
Course Summary	This course provides	This course provides a detailed understanding of gender equality, gender							
	empowerment strategies, and social security policies that promote								
	gender well-being.								

CO	CO Statement	Cognitive Level*	Knowledge Category#	Evaluation Tools used
CO 1	Understand the basic concepts of gender and gender economics and to recognise the gender mainstreaming initiatives.	Ü	C	Instructor-created exams / Quiz/Assignment
CO 2	Examine the peculiarities, role and challenges of gender in the labour market participation	E	С	Instructor-created exams / Practical Assignment / Observation of Practical Skills
CO 3	Analyse the basic tools of gender Economics	An	P	Instructor-created exams / Seminar Presentation / Group Discussion
CO 4	Create the attitude and ability to preserve the concept of women empowerment and gender equality in the society.	Ap	Р	Instructor-created exams / Home Assignments
CO 5	Suggest and practice certain measures for protecting gender equality and gender well being	Ap	Р	Writing assignments/Survey/Debate

<sup>\* -</sup> Remember (R), Understand (U), Apply (Ap), Analyse (An), Evaluate (E), Create (C)

<sup># -</sup> Factual Knowledge(F) Conceptual Knowledge (C) Procedural Knowledge (P) Metacognitive Knowledge (M)

Module	Uni	Content	Hrs	Marks
I	t	Introduction to Gender Economics	12	18
_	1	Concepts of gender and sex-Femininity and masculinity	1	-
	2	Definition and Scope of Gender Economics	1	
	3	Historical Milestones of Gender Mainstreaming - Global perspective (UNDP measures, UN SDGs, CEDAW etc)	2	
	4	Gender Main streaming efforts in India-73 <sup>rd</sup> and &74 <sup>th</sup> amendments of Indian constitution, Gender budgeting, Beti Bachao Beti Padhao, Mahila Shakti Kendra, The National Crèche Scheme, Pradhan Mantri Matru Vandna Yojna, Pradhan Mantri Ujjwala Yojana, Sukanya Samriddhi Yojna (SSY), Skill Upgradation & Mahila Coir Yojna etc.	3	
	5	Gender mainstreaming efforts of Local self-government- WCP, GRC, Jagratha Samithi, Kudumbasree,etc.	1	
	6	Transgender policy of India and Kerala	1	
	7	Demography of female population in India-Age structure, mortality rates, Inter-state variations in sex ratio, Causes of declining sex ratio, Measurement of fertility and its control	3	
II		Gender and Labour Market	12	28
	8	workforce participation across Gender –Basic Statistics (world &India), Contribution of Claudin Goldin-U shape Curve	3	
	9	Challenges in informal and Formal Economy–Gender Discrimination and Exploitation in the Labour Market	2	
	10	Time use and Indian Time Use survey (1999-2000& 2019) for assessing women's labour at home and workplace	3	
	11	Women's Contribution to National Economy in terms of sectoral shares in GDP and employment	2	
	12	Impact of technology and modernization on women's work participation	1	
	13	Effects of globalization and liberalization on women	1	
III		Tools for Gender Economics	10	24
	14	Gender Planning-Definition, importance, process and stakeholders	3	
	15	Gender Budgeting: Definition, Importance, process and stakeholders	3	
	16	Gender Auditing: Definition, Importance and process	4	
IV		Tools for Women Empowerment	14	28
	17	Women and education- GER ratio in India -Addressing gender inequalities in education	3	
	18	Gender equity in health-access to nutrition	2	
	19	Women's participation in decision making	2	
	20	Gender equity in Assets -Protection of property rights	2	_
	21	Crimes against women in India-Basic statistics	3	_
	22	Schemes for safety net for women	2	
V		Practical Approach to Gender Econoimics	12	4
	1	Perform Gender auditing of a leading institution		

2	Discuss the reasons for increasing women crimes in Kerala	
3	Gender-based discrimination in assets: carry out a local survey	
4	Student led seminar on national and international laws for	
	women's rights	

#### REFERENCE:

- 1. Sen, Sujatha (2012), Gender Studies- Dorling Kindersley (India) Pvt.Ltd, New Delhi
- 2. Krishna Raj .M, Sudarshan.R.M, and Shariff.A (1999), *Gender, Population and Development*, Oxford University Press, New Delhi
- 3. Ellina Samantroy (2022), *Women's Paid and Unpaid Work: Insights from the Time Use Survey and Methodological Issues*, V.V. Giri National Labour Institute, Noida, U.P.

#### **ADDITIONAL READINGS**

- 1. Sen, Suvarna (2006), Gender and Development, ICFAI University Press, Hyderabad.
- 2. Dutta, Nandita and, Sumitra Jha (2014), *Women and Rural Development*, Pacific Books International Delhi.
- 3. Jitendra Ahirrao (2013), *Entrepreneurship and Rural Women in India*, New Century Publications, New Delhi.
- 4. A. Venkateswarlu, et al. (2013), Dimensions of Female Sex Ratio: Interstate Variations in India, Serials Publications, New Delhi.
- 5. Desai, N and M.K Raj (1974), Women and Society in India, SNDT University, Mumbai.
- 6. Sen, Amartya. (1990), *More than 100 million Women are Missing*, New York Review of Books, vol.37, No.20, 1990.
- 7. Govt.of India (2009), *Gender Equality and Women Empowerment in India*, National Family Health Survey 2005-06 (NFHS-3), IIPS, Mumbai.
- 8. John Mary. E (1996), Gender and Development in India, EPW, 31(47), PP 3071-77).
- 9. Pal, Manoranjan et.al (Ed) (2011), *Health, Nutritional Status and Role of Women in India*, Oxford University Press, New Delhi.
- 10. E Boserup (1970), Women's Role in Economic Development, George Allen and Unwin, London.

### MAPPING OF COS WITH PSOS:

	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6	PO1	PO2	PO3	PO4	PO5	PO6	PO7
CO 1	3	1	-	-	2	1	3	ı	ı	ı	-	ı	ı
CO 2	1	2	-	3	-	1	ı	-	2	ı	-	ı	ı
CO 3	-	-	1	3	-	-	-	-	-	-	3	-	-
CO 4	-	-	-	2	-	1	ı	-	ı	2	-	ı	ı
CO 5	-	-	-	-	-	2	-	-	-	-	-	-	2

# **CORRELATION LEVELS:**

Level	Correlation
-	Nil
1	Slightly / Low
2	Moderate / Medium
3	Substantial / High

# **ASSESSMENT RUBRICS:**

Quiz / Assignment/ Viva Voce/ Discussion / Seminar/ Survey
Internal Exam
Practical Assignments
Final Exam (70%)

	Internal Exam	Quiz / Assignment/ Viva Voce/ Discussion / Seminar	Practical Assignment	End Semester Examination
CO 1	<b>✓</b>	<b>✓</b>		<b>√</b>
CO 2	<b>√</b>	<b>✓</b>	✓	✓
CO 3	✓	✓	✓	✓
CO 4	✓	✓	✓	✓
CO 5		✓	✓	

Programme	B.A. Economics Honours									
Course Title	ENVIRONMENT AND SUSTAINABLE DEVELOPMENT									
Type of Course	Elective	Elective								
Semester	V	V								
Academic Level	300 – 399	300 – 399								
Course Details	Credit	Lecture	Tutorial	Practical	Total					
		per week	per week	per week	Hours					
	4	4	-	-	60					
Pre-requisites	Economics Course of	£ 200 – 299 le	evel							
Course Summary	This course explores	the relationsl	nip between e	environment a	nd economy					
	and through which str	udents put for	rward variou	s sustainable d	levelopment					
	models									

СО	CO Statement	Cognitive Level*	Knowledge Category#	Evaluation Tools used
CO 1	Understand the concept of environmental economics and its	U	С	Instructor- created exams /
	importance			Quiz
CO 2	Analyze various theories on environmental economics and related concepts	Ap	Р	Practical Assignment / Observation of Practical Skills
CO 3	Evaluate the problem of pollution	U	Р	Seminar Presentation / Group Discussion
CO 4	Apply the theoretical knowledge in reducing environmental degradation	Ap	С	Instructor- created exams / Home Assignments
CO 5	Assess various environmental issues	U	F	Writing assignments

<sup>\* -</sup> Remember (R), Understand (U), Apply (Ap), Analyse (An), Evaluate (E), Create (C) # - Factual Knowledge(F) Conceptual Knowledge (C) Procedural Knowledge (P) Metacognitive Knowledge (M)

Unit		SYLLABUS:  Content	Hr s	Marks
Ι		Environment and Economy	12	18
	1	The Environment and Economy- meaning and scope of environmental economics-	3	
	2	Major environmental problems, types of pollutions, Global warming and Ozone depletion.	3	
	3	The environmental Kuznet curve-	3	
	4	Limit to growth theory- Green GDP	3	
II		Externalities and Regulations	15	28
	5	Market failure and causes	2	
	6	Kinds of Externalities	1	
	7	Negative externalities and inefficiency	1	
	8	Positive externalities and inefficiency	1	
	9	Regulating externalities -prices- Fixing Emission standard and Emission Fees, Tradeable emission permits, recycling	4	
	10	Pigouvian taxes	1	
	11	Optimum level of pollution control	2	
	12	Property rights and Coase Theorem	3	
III		Measuring Environmental Values	10	24
	13	Environmental impact assessment- preventive expenditure technique- replacement cost technique- travel cost method-contingent valuation	4	
	14	National income accounting for the environment	2	
	15	The harvesting of renewable resources and maximum sustainable yield	2	
	16	Non-renewable resources and optimal depletion	2	
IV		Sustainable Development	11	28
	17	Sustainable development: concepts and practices- measurement	4	
	18	Earth summits	1	
	19	Sustainable developmental goals	1	
	20	Agenda 21	1	
	21	Sources and use of non-conventional and renewable energy	2	
	22	Organic farming	2	
V		Practical insights to Environmental Economics	12	
		Report on waste management by visiting local dumping yards of the local self-governments- report should contain the assessment and measurement of pollution- suggestion to reduce the problems related to waste management. or		
		Visit organic farm houses and make report on its economic side		

#### REFERENCE:

- 1. Charles D Kolstad, (2010). *Intermediate environmental economics*, 2<sup>nd</sup> ed. Oxford University Press.
- 2. Robert Pindyck and Daniel Rubinfield, (2019). Micro Economics. Pearson, 8, 657-671
- 3. A.P. Thirlwall, Growth and Development, 8th Edition, Palgrave, macmillan.
- 4. T. Eugin, (2014). Environmental economics, Vrindavan publications, Delhi

### **ADDITIONAL READINGS**

- 1. Aldy, J. et al. (2010). Designing climate mitigation policy. *Journal of Economic Literature*, 48, 903-934.
- 2. Cropper, M., Oates, W. (1992). Environmental economics: A survey, *Journal of Economic Literature*, 30, 675-740.
- 3. Heal, G. (2012). Reflections defining and measuring sustainability. *Review of Environmental Economics and Policy*, 6, 147-163.
- 4. Newell,R.,Pizer,W.,Raimi,D.(2013).Carbonmarkets15yearsafterKyoto: Lessons learned, new challenges .*Journal of Economic Perspectives*, 27, 123-46.
- 5. Perman, R., Ma, Y., Mc Gilvray, J., Common, M.(2011). *Natural resource and environmental economics*, *3rd ed*. Pearson Education/Addison Wesley.
- 6. Stavins, R. (ed.)(2012). Economics of the environment: Selected readings, 5th ed. W. W. Norton

#### MAPPING OF COS WITH PSOS:

	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6	PO1	PO2	PO3	PO4	PO5	PO6	PO7
CO 1	3	-	-	-	-	-	3	-	-	-	-	-	-
CO 2	-	3	-	1	-	-	-	-	3	-	-	-	-
CO 3	3	-	-	1	-	-	-	-	-	-	2	-	-
CO 4	-	3	1	2	-	-	-	-	-	-	-	3	-
CO 5	3	-	-	-	-	-	-	-	-	-	3	-	-

# **CORRELATION LEVELS:**

Level	Correlation
-	Nil
1	Slightly / Low
2	Moderate / Medium
3	Substantial / High

# **ASSESSMENT RUBRICS:**

Quiz / Assignment/ Viva Voce/ Discussion / Seminar
Internal Exam
Practical Assignments (20%)
Final Exam (70%)

	Internal Exam	Quiz / Assignment/ Viva Voce/ Discussion / Seminar	Practical Assignment	End Semester Examination
CO 1	<b>√</b>	<b>√</b>		✓
CO 2	<b>√</b>		<b>√</b>	<b>√</b>
CO 3	<b>√</b>	✓		✓
CO 4	<b>√</b>	✓		✓
CO 5		✓	✓	
CO 6			✓	

Programme	B.A. Economics Honours									
Course Title	ECONOMIC DATABASE MANAGEMENT									
Type of Course	Elective	Elective								
Semester	V									
Academic Level	300 - 399									
Course Details	Credit	Lecture	Tutorial	Practical	Total					
		per week	per week	per week	Hours					
	4	4	1	-	60					
Pre-requisites	Intermediate Level E	conomics Co	urses of 200	– 299 level						
Course Summary	Explore the intersecti	on of econon	nics and data	base systems,	covering					
	data sources, case stu	dies, and eco	nomic analys	sis.						

CO	CO Statement	Cognitiv e Level*	Knowledge Category#	Evaluation Tools used
CO 1	Understand the fundamentals of database management and its importance in economics	U	С	Instructor-created exams / Quiz
CO 2	Learn how to query a database to extract relevant economic data	U	С	Seminar Presentation / Group Discussion
CO 3	Check reliability and quality of data	E	P	Seminar Presentation / Group Discussion
CO 4	Comparison of different data sources	An	P	Instructor-created exams / Home Assignments
CO 5	Develop skills in data analysis using database tools and technologies	Ap	Р	Practical Assignment / Observation of Practical Skills

<sup>\* -</sup> Remember (R), Understand (U), Apply (Ap), Analyse (An), Evaluate (E), Create (C) # - Factual Knowledge(F) Conceptual Knowledge (C) Procedural Knowledge (P) Metacognitive Knowledge (M)

Module	Uni t	Content	Hr s	Marks
I	ı	Introduction to sources of data	15	30
-	1	An introduction to the role of data in economic history-	5	
	1	the physiocrats- Quesnay- Hume- William Petty- Kuznets		
	2	Modern data sources	2	1
	3	Scale of measurement	2	
	4	Data transformations; level v/s growth rates	2	1
	5	Sources of data	1	1
	6	Data reporting delay	1	1
	7	Length of data	1	1
	8	Accuracy of data	1	-
II		India's specific data sources	15	33
	9	The role of National Sample Survey Organisation	1	1
	10	Central statistical organization	1	
	11	Annual Survey of Industries	1	1
	12	RBI- Handbook of Statistics on Indian Economy	2	-
	13	SEBI handbook of statistics	2	-
	14	Data set- Employee Provident Fund Organization	2	-
	15	Ministry of Corporate affairs	$\frac{2}{2}$	-
	16	•		1
	10	Database on Indian economy - Census dataset- open government data platform in India	2	
	17	National family health survey	2	
III	1 /	Global data sources	8	15
111	18	UN data- monthly -Monthly bullets of statistics-SDG indicators- UN	4	13
	10	comtrade data base-UN conference on trade and development- Climate	7	
		change indicators- dashboard		
	19	International financial statistics- financial access survey- government	4	1
		finance statistics- the World bank data catalogue- the global index		
		data base- Federal Reserve economic data base (FRED)		
IV		Case studies and controversies	10	20
	20	The minimum wage controversy-the backward bending supply curve	4	
		for labour- GDP calculation-Inflation Calculation-Purchasing Power		
		Parity calculations		
	21	Reinhart-ROGOFF controversy- public data manipulation	3	
	22	Greece's public deficit figures-controversies about Argentina's	3	
		inflation statistics- the Brazilian fiscal pedaling- limitations of publicly available data (case studied of relevant economies)		
<b>T</b> 7		1.0		
$\mathbf{V}$		Flexible Learning Unit	12	
		<b>Discussion</b> on reliability of data from different sources		
		Practical Assignments to extract data from various sources		
		Seminar on the influence and value of data-based evaluation of		
		different schemes, situations and problems		

# REFERENCE:

1. Koop, Gary. Analysis of economic data. John Wiley & Sons, 2013. (All modules)

### **ADDITIONAL READINGS**

- 1. Kirkpatrick, Charles D. Time the Markets: Using Technical Analysis to Interpret Economic Data. FT Press, 2012.
- 2. Winston, Wayne L. Data Analysis and Business Modeling with Microsoft Excel. Microsoft Press, 2004.
- 3. Gujarati, Damodar N., and Dawn C. Porter. Basic econometrics. McGraw-hill, 2009.

# MAPPING OF COS WITH PSOS:

	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6	PO1	PO2	PO3	PO4	PO5	PO6	PO7
CO 1	3	ı	ı	ı	-	-	3	1	1	ı	1	1	1
CO 2	3	ı	ı	2	ı	1	2	1	3	ı	ı	ı	1
CO 3	-	ı	ı	3	1	ı	1	2	1	ı	1	3	1
CO 4	3	ı	ı	ı	ı	ı		1	1	1	2	1	ı
CO 5	-	-	-	-	2	-	-	-	-	-	2	-	-

#### **CORRELATION LEVELS:**

Level	Correlation
-	Nil
1	Slightly / Low
2	Moderate / Medium
3	Substantial / High

### **ASSESSMENT RUBRICS:**

Quiz / Assignment/ Viva Voce/ Discussion / Seminar
Internal Exam
Practical Assignments (20%)
Final Exam (70%)

	Internal Exam	Quiz / Assignment/ Viva Voce/ Discussion / Seminar	Practical Assignment	End Semester Examination
CO 1	✓	✓		✓
CO 2	✓			✓
CO 3	✓	✓		✓
CO 4	<b>√</b>	✓		<b>√</b>
CO 5			<b>√</b>	

Programme	B.A. Economics Honours										
Course Title	ECONOMICS OF LABOUR MARKET										
Type of Course	Elective										
Semester	V										
Academic Level	300 - 399	300 - 399									
Course Details	Credit Lecture Tutorial Practical Total										
	per week   per week   Hours										
	4	4 4 - 60									
Pre-requisites	Course on Microecon	nomics and M	<b>Lacroeconom</b>	nics of level 20	00 - 299						
Course	This course explores	This course explores the intricate dynamics of labour markets, providing									
Summary	students with a comprehensive understanding of the functioning of labour										
	markets, and covering	markets, and covering fundamental concepts, historical									
	development, labour	market outco	omes and con	temporary iss	ues.						

CO	CO Statement	Cognitive	Knowledge	<b>Evaluation Tools</b>
		Level*	Category#	used
CO 1	Understand the basic concept of	U	С	Instructor-
	labour economics, labour			created exams / Quiz
	markets and labour force			
	participation.			
CO 2	Analyze theories of	An	P	Practical
	labour supply,			Assignment
	labour demand and wage			
	discrimination			
CO 3	Evaluate wage determination in	Е	F	Seminar Presentation
	different market conditions and			/
	the impact of labour unions			Group Discussion
CO 4	Apply the theories and	Ap	P	Instructor- created
	contribute to better labour			exams / Home
	market outcomes.			Assignments
CO 5	Create critical thinking on	Ap	F	Viva Voce
	labour unions, collective			
	bargaining and			
	Govt Employment Programmes			
* D	and an (D) Hadaustand (H) Analy (A	\ \ A 1	(A ) E 1 / (E	

<sup>\* -</sup> Remember (R), Understand (U), Apply (Ap), Analyse (An), Evaluate (E), Create (C)

<sup>#</sup> - Factual Knowledge(F) Conceptual Knowledge (C) Procedural Knowledge (P) Metacognitive Knowledge (M)

Modul	Unit	Content	Hrs	Marks				
e I		Labor Market and Labour Supply	10	22				
	1	Labour Market and the Economy - Unique features of Labour market	1					
	2	Evolution of Labour Market Theory-Labour market Process.	2					
	3	Labour Supply-The Theory of Labour/Leisure Choice- Income taxes and Labour supply	2					
	4	Supply of Salaried and Contract Labourers- Labour Supply Curve.	2					
	5	Labour Force Participation- Its Measurement- Convergence of Participation Rates	3					
II		Labour Demand	15	30				
	6	Demand for Labour in the Short Run -Marginal Productivity Theory of Labour Demand with its criticisms	3					
	7	Product Demand and Labour Demand	1					
	8	Short-run Equilibrium in Labour Demand	2					
	9 Elasticity of Demand for Labour  10 Demand for Labour in the Long Run-Long Run Equilibrium -							
	11 Determinants of Elasticity of Labour Demand- Technological Change and Labour Demand.							
III								
	12	Wage Determination in Competitive Markets-Law of One Wage	1					
	13	Wage Determination in Monopsony Market	1					
	14	Minimum wage	1					
	15	Efficiency wage Theory	2					
	16	Compensating Wage Differentials	1					
	17	Hedonic Theory of Compensating Wage Differentials	1					
	18	Economics of Employee Benefits	1					
	19	Issues of Occupational Segregation-Duncan Index	3					
	20	Discrimination in the Labour Market-Theories of Labour Market Discrimination - Measurement of Discrimination.	4					
IV		Union Membership and Collective Bargaining	8	18				
	21	Type of Labour Unions- The Determinants of Union Membership: Demand and Supply Model -Equilibrium level of Union Membership.	4					
	22	The Union-Management Bargaining Process-Contract	4					

	Zone-Union and Employer Reac	ion Function-							
	Bargaining Process Outcomes								
V	Measurement and Data		12						
	<b>Discussion</b> : Measurement, Types of Une	mployment and							
	Causes of Unemployment								
	Practical Assignments on Unemployme	nt Statistics of							
	India and Kerala	India and Kerala							
	Seminar on Government Employment P	rogrammes							

#### REFERENCE:

1. Kaufman,B,E(2003).The Economics of Labour Markets.Thomson South Western (Module I,II,II, and IV)

#### **ADDITIONAL READINGS**

- 1. Borjas, G.J. (2020). Labour Economics. Mcgraw-Hill.
- 2. Boeri, T., & Ours, J. (2008). The Economics of Imperfect Labor Markets, Princeton University Press
- 3. Junankar, P. (2016). Economics of Labour Market. Palgrave.
- 4. Sapsford, D., & Tzannatos, Z. (1993). The Economics of Labour the Market.
- 5. Fine, B. (1998). Labour Market Theory: A Constructive Reassessment. Routledge.
- 6. McConnel, C.,Brue,S.,&Mac,D.(2017).Contemporary LabourEconomics. McGraw-Hill Education
- 7. State planning Board, Economic Review, Thiruvananthapuram
- 8. https://mospi.gov.in>nsso-reports
- 9. https://dbie.rbi.org.in/#/dbie/home

#### MAPPING OF COS WITH PSOS:

	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6	PO1	PO2	PO3	PO4	PO5	PO6	PO7
CO 1	3	-	1	-	1	1	1	-	-	-	-	-	1
CO 2	3	3	1	2	1	-	1	-	3	-	-	-	ı
CO 3	-	3	-	2	-	-	-	-	-	-	2	-	-
CO 4	-	3	1	2	3	1	-	-	-	-	-	-	2
CO 5	-	3-	-	2	2	-	-	_	2	-	_	-	-

# **CORRELATION LEVELS:**

Level	Correlation
-	Nil
1	Slightly / Low
2	Moderate / Medium
3	Substantial / High

# **ASSESSMENT RUBRICS:**

Quiz / Assignment/ Viva Voce/ Discussion / Seminar
Internal Exam
Practical Assignments (20%)
Final Exam (70%)

	Internal Exam	Quiz / Assignment/ Viva Voce/ Discussion / Seminar	Practical Assignment	End Semester Examination
CO 1	✓	✓		✓
CO 2	✓	✓	✓	✓
CO 3	✓	✓	✓	✓
CO 4	✓	✓	✓	✓
CO 5	✓	✓	✓	

Programme	B.A. Economics Hon	ours			
Course Title	HEALTH ECONON	MICS			
Type of Course	Elective				
Semester	V				
Academic Level	300 - 399				
Course Details	Credit	Lecture	Tutorial	Practical	Total
		per week	per week	per week	Hours
	4	4	-		60
Pre-requisites	Microeconomics cour	rse of $200 - 2$	299 level		
Course Summary	This course seeks basic information about health economics, supply and				
	demand for health care, Health Insurance and Economic Evaluation of				
	Health Interventions.				

CO	CO Statement	Cognitive Level*	Knowledge Category#	Evaluation Tools used
CO1	Understand the basic concepts of health economics.	F	С	Instructor-created exams / Quiz
CO2	Comparison of determinants of demand and supply of health care.	An	Р	Practical Assignment
CO3	Able to evaluate proper health insurance policies	Ap	F	Seminar Presentation / Group Discussion
CO4	Able to track down emerging health interventions in the international, national and state level	Ap	С	Instructor-created exams / Home Assignments
CO5	Create the opportunity to develop awareness regarding health care around us	Е	M	Viva

<sup>\* -</sup> Remember (R), Understand (U), Apply (Ap), Analyse (An), Evaluate (E), Create (C) # - Factual Knowledge(F) Conceptual Knowledge (C) Procedural Knowledge (P) Metacognitive Knowledge (M)

Modul	Unit	Content	Hrs	Marks
e I		INTRODUCTION TO HEALTH ECONOMICS	12	18
_	1	Definition and scope of health economics	1	1
	2	Significance of Health Economics	1	=
	3	Essential features of health economics	1	
	4	health indicators-mortality, morbidity, birth rate, death rate, IMR, CMR, MMR, Disability Adjusted Life year (DALY), Quality Adjusted Life Year (QUALY)	5	
	5	Sex ratio	1	
	6	Value of life; Determinants of good health	1	
	7	Measurement of health status.	2	
II		SUPPLY AND DEMAND FOR HEALTH CARE	15	28
	8	Demand and Supply of health care	1	
	9	Characteristics of demand and supply of health	1	
	10	Demand for health and demand for medical care.	3	
	11	Nature of demand for health- Determinants of demand for health	2	
	12	Supplier induced demand; health as a form of capital.	3	
	13	Supply of health care-Determinants of supply of health care	2	
	14	Pricing of health care.	3	
III		MARKET FOR HEALTH INSURANCE	10	24
	15	Economics of health insurance- Demand for health insurance	1	
	16	setting insurance premium	1	
	17	Insurance concepts -Co-payments. Co-insurance rates, deductibles. Method of pricing insurance;	3	
	18	Health insurance challenges: Information asymmetry – Adverse selection -Moral hazard;	3	
	19	Private vs social health insurance.	2	
IV		ECONOMIC EVALUATION OF HEALTH INTERVENTIONS	11	28
	20	Evaluating Health Intervention- Direct and indirect costs of healthcare	2	
	21	Issues in the measurement of cost; Purpose and methods of evaluating a health intervention	4	
	22	Health policy of WHO - National health policy- NRHM- Health as a State subject.	5	1
V		Real World Health Economics	12	
•	1	An overview of the health scenario in India and Kerala	14	-
				i .
	2	Indian health care sector; Health Scenario in India and		

#### REFERENCE:

1. V Ramankutty- A Premier of Health System Economics (2007)

#### **ADDITIONAL READINGS:**

- 1. Dewar Dianne M (2010): Essentials of Health Economics, Jones and Bartlett Publishers,
- 2. Feldestein Paul J (1999): Health Economics, Albany, NY: Delmar Publication Learning
- 3. Getzen Thomas E (2013): Health Economics and Financing, Wily
- 4. Park K (2011): Preventive Medicine, Banarsidas Bhanot Publications, Jabalpur.
- 5. Phelps Charls E (2016): Health Economics, Routledge, New York Dewar M Diane :Essential of Health Economics
- 6. Santrre E Rexford and Neun Stephen: Health Economics: Theory, Insights and Industry Studies, South Western Cengage Learning
- 7. V Ramankutty- A Premier of Health System Economics (2007)
- 8. Kannan K P,et al (1991)- Health Development in Rural Kerala-(KSSP,Thiruvanthapuram).
- 9. Henderson J W- Health Economics and Policy -Thomson Learning.

### MAPPING OF COS WITH PSOS:

	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6	PO1	PO2	PO3	PO4	PO5	PO6	PO7
CO 1	3	1	i	-	1	-	3	-	-	ı	ı	ı	ı
CO 2	-	3	1	2	1	-	ı	ı	3	ı	ı	ı	ı
CO 3		2	-	2	-		-	-	-	-	2	-	-
CO 4	-	3	2	3	1	2	1	-	-	1	1	3	ı
CO 5	3	-	-	-	-	2	-	-	-	-	-	-	2

#### **CORRELATION LEVELS:**

Level	Correlation		
- Nil			
1	Slightly / Low		
2	Moderate / Medium		
3	Substantial / High		

1	ASSESSMENT	RIBRICS	2
$\Gamma$		NUDINIC	Э,

Quiz / Assignment/ Viva Voce/ Discussion / Seminar
Internal Exam
Practical Assignments (20%)
Final Exam (70%)

	Internal Exam	Quiz / Assignment/ Viva Voce/ Discussion / Seminar	Practical Assignment	End Semester Examination
CO 1	<b>✓</b>	<b>✓</b>		<b>√</b>
CO 2	<b>√</b>	✓	✓	<b>√</b>
CO 3	<b>√</b>	✓	<b>√</b>	<b>√</b>
CO 4	<b>√</b>	✓	<b>√</b>	<b>√</b>
CO 5	<b>√</b>	✓	✓	

Programme	B.A. Economics Honours						
Course Title	HUMAN CAPITAI	HUMAN CAPITAL AND ECONOMIC DEVELOPMENT					
Type of Course	Elective						
Semester	V						
Academic Level	300 - 399	300 - 399					
Course Details	Credit	Lecture	Tutorial	Practical	Total		
		per week	per week	per week	Hours		
	4	4	-	-	60		
Pre-requisites	Course on Intermediate Economics of level 200 - 299						
Course Summary	This course explores the intersection between development economics						
	and the economics of	human capit	tal				

CO	CO Statement	Cognitive Level*	Knowledge Category#	Evaluation Tools used
CO 1	Understand the relationship between human capital and economic development	U	С	Instructor-created exams / Quiz
CO 2	Analyze the various theories of human capital and economic development	An	Р	Practical Assignment
CO 3	Evaluate the different theoretical models	Ap	F	Seminar Presentation / Group Discussion
CO 4	Apply the theoretical models to real situations	Ap	С	Instructor-created exams / Home Assignments
CO 5	Create empirical research models	С	P	Viva

<sup>\* -</sup> Remember (R), Understand (U), Apply (Ap), Analyse (An), Evaluate (E), Create (C) # - Factual Knowledge(F) Conceptual Knowledge (C) Procedural Knowledge (P) Metacognitive Knowledge (M)

Module	Uni	Content	Hr	Marks				
	t		S					
I		Introduction	10	18				
	1	Human Capital : Definition and Concepts	2					
	2	1 1						
	3							
	4	2						
	5	Problems of Human Capital Formation	2					
II		Theoretical Aspects	12	28				
	6	Solow Model and Effective Capital	2					
	7	Convergence Hypothesis	2					
	8	Solow Residual	2					
	9	Research on Human Capital and Economic Growth	3					
	10	India's Experience	3					
III		Advanced theories	12	28				
	11	Theoretical models on Human capital and Economic Growth	3					
	12	Human Capital formation	2					
	13	Endogenous growth models	2					
	14	Multiple equilibrium and Non-linearity in Human Capital and Economic growth	3					
	15	Overlapping Generations model- Paul Samuelson & Peter Diamond	2					
IV		<b>Empirical Aspects</b>	14	24				
	16	The Empirics	2					
	17	Linear and Non-linear Specifications	2					
	18	Non –parametric method and their application	2					
	19	3						
	20	2						
	21	Economic Policy and Human capital	2					
	22	Human Capital and Development experiences of Kerala	1					
V		Flexible Learning Unit	12					
		Assignments, Empirical studies, Problem Discussion						

# REFERENCE:

- 1. Andreas Savvides and Thanasis Stengos: Human Captal and Economic Growth:Stanford University Press 2009
- 2. A . P Thirlwall: Growth and Development
- 3. Michael P Todaro and Stephen C Smith: Economic Development

4. N Gregory Mankiw: Macro Economics

# MAPPING OF COS WITH PSOS:

	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6	PO1	PO2	PO3	PO4	PO5	PO6	PO7
CO 1	3	-	-	-	2	1	-	-	-	-	-	3	-
CO 2	_	-	-	2	-	-	-	-	3	-	-	-	-
CO 3	_	2	-	2	-	-	-	-	-	-	2	-	-
CO 4	_	2	-	1	1	1	-	-	-	2	-	-	-
CO 5	_	2	-	1	-	2	-	-	-	-	-	-	3

# **CORRELATION LEVELS:**

Level	Correlation		
-	Nil		
1	Slightly / Low		
2	Moderate / Medium		
3	Substantial / High		

# **ASSESSMENT RUBRICS:**

Quiz / Assignment/ Viva Voce/ Discussion / Seminar
Internal Exam
Practical Assignments (20%)
Final Exam (70%)

	Internal Exam	Quiz / Assignment/ Viva Voce/ Discussion / Seminar	Practical Assignment	End Semester Examination
CO 1	<b>√</b>	✓		<b>√</b>
CO 2	<b>√</b>			<b>√</b>
CO 3	<b>√</b>	✓		<b>√</b>
CO 4	<b>√</b>	✓	<b>√</b>	<b>√</b>
CO 5	<b>√</b>	✓	✓	

Programme	B.A. Economics Honours								
Course Title	INDUSTRIAL ECONOMICS								
Type of Course	Elective								
Semester	VI								
Academic Level	300-399								
Course Details	Credit	Lecture	Tutorial	Practical	Total				
		per week	per week	per week	Hours				
	4	4	-	1	60				
Pre-requisites	Economics course of	200 – 299 le	vel						
Course Summary	This course is design	This course is designed to explore the basic concepts, nature and scope,							
	_	theories and practices of industrial economics in a cogent and analytical manner particularly in the Indian context.							

CO	CO Statement	Cognitiv Knowledg		<b>Evaluation Tools used</b>	
		e	e		
		Level*	Category#		
CO 1	Identify the basic concepts and	U	C	Instructor-created exams /	
	scope of Industrial Economics			Quiz	
CO 2	Analyse the different forms of	An	C	Instructor-created	
	organisation and its motives			exams /Practical	
				Assignment	
CO 3	Analyse the general	An	C	Instructor-created	
	determinants and approaches			exams/ Seminar	
	of industrial location and			Presentation / Group	
	explore the motives of			Discussion/	
	mergers and acquisition				
CO 4	Evaluate the major source of	E	p	Instructor-created exams /	
	industrial finance, financial			Home Assignments/	
	statements, Ratio analysis			Practical	
	and break-even analysis			Assignment/Seminar	
	procedures in the Indian				
00.5	context.	Δ.		I de Contra	
CO 5	Analyse basic investment decisions on the basis of	An	p	Instructor Created exams/Practical	
	project evaluation methods and cost benefit analysis			Assignment /Writing assignments/Seminar	
CO 6	Access industrial practices	A n	P	Debate/panel discussion/	
CO 0	prevailing in India on the	Ap	r	survey /Assignments	
	basis of Industrial policy			survey/Assignments	
	1991, Labour rules, Industry				
	innovations, Special economic				
	zone, Ratio analysis and				
	break-even point calculation				
	etc				
	etc				

- \* Remember (R), Understand (U), Apply (Ap), Analyse (An), Evaluate (E), Create (C) # Factual Knowledge(F) Conceptual Knowledge (C) Procedural Knowledge (P) Metacognitive Knowledge (M)

Module	Uni	Content	Hrs	Marks				
	t			4.0				
Ι		Basics and Scope of Industrial Economics	12	19				
	1	Nature and Scope of Industrial Economics	1					
	2	The organizational form and alternative motives of the firm	3					
		The concept of Production function and optimal input						
	4	Efficiency and Size of the firm	3					
TT	5	The effect of Firm size on other performance indicators and conduct	2	10				
II	-	Industrial Location Analysis	12	19				
	6	The General determinants of industrial location	3					
	7	Geographical approaches to industrial location  Economic theories of industrial location	4					
	8							
	9	Operational approaches to industrial location Industrial location trends in India	1 1					
			2					
	11	Concepts and motives for industrial diversification, vertical	2					
TTT		integration and mergers	10	20				
III	10	Industrial Finance and Accounting	12	30				
	12	Types of finance and Sources of Industrial Finance (internal and external)	2					
	13	Contribution of various sources of finance in Indian Situation	2					
	14	Basic accounting procedure and financial statements (balance sheet and Profit &Loss account only)	3					
	15	Assessment of Financial soundness and Ratio analysis	3					
	16	Breakeven analysis and its application in financial management	2					
IV		Investment Decisions	12	30				
	17	Nature and types of Investment decisions	1					
	18	Preparation of time profile of a project	2					
	19	Methods of project evaluation	4					
	20	Ranking of projects: NPV vs IRR	1					
	21	Risk and uncertainties in project proposal	2					
	22	Appraisal of public projects: social cost benefit analysis	2					
V		Industrial Policies	12					
	1	Conduct Student-led seminar on New Industrial policy 1991						
	2	Organize discussion on Industry and Innovation (Startup, Unicorn etc.						
	3	Conduct financial ratio analysis and breakeven analysis of selected companies						
	4	Organize a quiz competition on Labour rules in India						
	5	Panel discussion on Special Economic Zones: Progress and problems						

### REFERENCE:

- 1. Barthwal, R.R (2018), *Industrial Economics*, 3<sup>RD</sup> Revised Edition, New Age International (p) Limited, New Delhi (Module 1,2,3,4&5)
- 2. Prasanna Chandra (1995), Financial Management-Theory and Practice- Tata McGraw Hill, New Delhi (Module 3&4)

### **ADDITIONAL READINGS**

1. Hay D A and Morns D J (1979), Industrial Economics: Theory and Evidence, Oxford university Press

- 2. Roger Clarke (1985) *Industrial Economics*, Basil Blackwell, New York.
- 3. Smith D M (1971) Industrial Location: An Economic and Geographic Analysis- John Wiley, New York.
- 4. Francis Cherunilam (1994), *Industrial Economics: Indian Perspective*, Himalaya Publishing House, Mumbai.
- 5. Uma Kapila (2003), *Understanding the problems of Indian Economy*, Academic Foundation, New Delhi.
- 6. CDS: Balakrishnan P and Pushpangadan K (1994) Total Factor Productivity Growth in Indian Manufac-turing: A Fresh Look- Working Paper No. 259, Thiruvananthapuram.

#### MAPPING OF COS WITH PSOS:

	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6	PO1	PO2	PO3	PO4	PO5	PO6	PO7
CO 1	3	1	1	1	1	-	3	-	-	ı	-	-	ı
CO 2	1	2	-	2	-	-	-	-	-	-	-	2	-
CO 3	-	3	-	2	-	-	2	-	-	-	-	1	1
CO 4	-	-	-	3	-	2	1	-	-	-	-	1	3
CO 5	-	-	-	2	2	3	-	-	2	2	-	-	-
CO 6	-	-	-	-	2	3	-	-	2	-	-	-	1

### **CORRELATION LEVELS:**

Level	Correlation			
-	Nil			
1	Slightly / Low			
2	Moderate / Medium			
3	Substantial / High			

#### **ASSESSMENT RUBRICS:**

- 2 Quiz / Assignment/ Debate/ Discussion / Seminar/Survey
- Internal Exam
- Pinal Exam (70%)

	Internal Exam	Quiz / Assignment/ Viva Voce/ Discussion / Seminar	Practical Assignment	End Semester Examination
CO 1	<b>√</b>	<b>✓</b>		<b>√</b>
CO 2	<b>√</b>	✓		✓
CO 3	<b>√</b>	✓	✓	✓
CO 4	✓	✓	✓	✓
CO 5	✓	✓	✓	✓
CO 6		√	✓	

Programme	B.A. Economics Hon	B.A. Economics Honours						
Course Title	AGRICULTURAL	ECONOMI	CS					
Type of Course	Elective							
Semester	VI							
Academic Level	300-399							
Course Details	Credit	Credit Lecture Tutorial Practical Total						
		per week   per week   Hours						
	4	4	-	ı	60			
Pre-requisites	Economics Course of	200 - 29916	evel					
Course Summary	This course provides an overview of the role of agriculture in the							
	economic development, Economics of agricultural production, Pricing of							
	agricultural product	agricultural products and the features associated to agricultural						
	productivity and Mar	keting.						

CO	CO Statement	Cognitive	Knowledge	<b>Evaluation Tools</b>
CO 1	Understand the basic concepts and models of agricultural economics related to the economic development of a country	Level* U	Category#	Instructor-created exams / Quiz/ Assignments
CO 2	Analyse the theoretical foundations and optimization strategies of economics of agricultural production	An	С	Instructor-created exams /Practical Assignment
CO 3	Evaluate the behaviour of demand, supply and agricultural product price and judge the relevance of government intervention in the price fixation	E	С	Instructor-created exams /Seminar Presentation / Group Discussion
CO 4	Demonstrate the structure and techniques of agriculture marketing in Indian context	An	С	Instructor-created exams / Home Assignments
CO 5	Analyse the major issues related to Indian agriculture and suggest new policies to overcome the issues associated with the Indian agriculture.	An	Р	Writing assignments/ Survey / Seminar/ presentation/ Group Discussion

<sup>\* -</sup> Remember (R), Understand (U), Apply (Ap), Analyse (An), Evaluate (E), Create (C)

<sup># -</sup> Factual Knowledge(F) Conceptual Knowledge (C) Procedural Knowledge (P) Metacognitive Knowledge (M)

Module	Uni t	Content	Hr s	Marks
I		Introduction to Agricultural Economics	12	28
	1	Meaning, Nature and Scope of Agricultural Economics.	2	
	2	Role of agriculture in economic development	1	
	3	Models of agricultural development (Schultz, Lewis, Fei& Ranis,	5	
		Mellor, and Boserup)		
	4	Interdependence between agriculture and industry	1	
	5	Terms of trade between agriculture and industry	1	
	6	Types of farming	2	
II		Economics of Agricultural Production	18	28
	7	Application of production function in Agriculture- Increasing and decreasing production function, Law of variable proportion, and the application of Cobb-Douglas production function in Agriculture	4	
	8	Factor- Product relationship	2	
	9	Factor-Factor relationship	2	
	10	Product-Product relationship	2	
	11	General condition of equilibrium covering all the relationships	2	
	12	Farm budgeting approach	2	
	13	Size of the Farm and Productivity debate	2	
	14	Measures of Farm Efficiency	2	
III		Behaviour of Demand, Supply and Agricultural prices	10	24
	15	Instability of agriculture-price instability, income instability, inelastic demand for and supply of agricultural products and measures for reducing instability in agriculture	2	
	16	Different views about supply response in agriculture	2	
	17	Objectives and elements of agricultural price policy	2	
	18	Features of an ideal agricultural price policy	2	
	19	Agricultural price policy in India and the need for revision of agricultural price policy in India	2	
IV		Agricultural Marketing	8	18
	20	Types of agricultural marketing	2	
	21	Efficiency of agricultural marketing and the measures to improve the efficiency of agricultural marketing in India	4	
	22	Measurement of marketable and marketed surplus	2	
V		Open Ended (Arrange any two activities)	12	
	1	Student led seminar on green revolution and ever green revolution		
	2	Discussion on rural unemployment and rural indebtedness		
	3	Assignment on land reforms and its impact on agriculture		]
	4	Critically evaluate the role of WTO in Indian agriculture by analysing		]
		the reports related to World trade organisation and Indian agriculture		
	5	Organise a debate on Capital formation in Indian Agriculture-Public versus private investment		

# REFERENCE:

- 1. Soni R N (2013), *Leading Issues in Agricultural Economics*, 10<sup>th</sup> Edition, Vishal publishing co. Jalandhar. (Module 1,2,3,4&5)
- **2.** Gupta P K (2018), *Agricultural Economics*, 2<sup>ND</sup> Edition, Vrinda Publications (p)Ltd, Delhi. (Module 1,2,3,4&5)

#### **ADDITIONAL READINGS**

- 1. S. Subba Reddy, P. Raghu Ram, T.V. Neelakanta Sastry and I. Bhavani Devi (2012) *Agricultural Economics*, Oxford & IBH Publishing Co. Pvt. Ltd., New Delhi
- 2. S.A.R Bilgrami (2011), *An Introduction to agricultural Economics*, 2<sup>ND</sup> Edition, Himalaya publishing house, Mumbai.
- 3. Majumdar NA and Kapila Uma (2006), *Indian Agriculture in the New Millennium Changing Perspective and Development Policy*, Vol. I &II, Academic Foundation, New Delhi.
- 4. Vaidyanathan A (2010), *Agricultural Growth in India: The Role of Technology, Incentives and Institutions*, Oxford University Press, New Delhi.
- 5. A.N Agrawal (2006), *Indian Economy; Problems of Development and Planning*, 32<sup>ND</sup> Edition, New Age International (p) Ltd. New Delhi.

#### MAPPING OF COS WITH PSOS:

	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6	PO1	PO2	PO3	PO4	PO5	PO6	PO7
CO 1	3	1	1	1	1	1	3	-	-	1	1	1	1
CO 2	1	3	1	1	1	1	ı	-	3	ı	ı	ı	ı
CO 3	1	2	ı	3	ı	ı	ı		-	ı	3	-	ı
CO 4	1	3	1	2	-	-	-	-	-	2	-	-	-
CO 5	1	2	-	3	-	-	-	_	-	_	2	-	-

#### **CORRELATION LEVELS:**

Level	Correlation
-	Nil
1	Slightly / Low
2	Moderate / Medium
3	Substantial / High

# **ASSESSMENT RUBRICS:**

- 2 Quiz / Assignment/ Viva Voce/ Discussion / Seminar /Survey
- Internal Exam
- Practical Assignments
- Pinal Exam (70%)

	Internal Exam	Quiz / Assignment/ Viva Voce/ Discussion / Seminar	Practical Assignment	End Semester Examination
CO 1	<b>√</b>	<b>✓</b>		<b>√</b>
CO 2	<b>√</b>	<b>√</b>	✓	✓
CO 3	<b>√</b>	<b>√</b>		<b>√</b>
CO 4	<b>√</b>	✓	<b>√</b>	<b>√</b>
CO 5		✓	✓	

Programme	B.A. Economics Hon	ours			
Course Title	INDIAN FINANCIA	AL MARKE	T		
Type of Course	Elective				
Semester	VI				
Academic Level	300 - 399				
Course Details	Credit	Lecture	Tutorial	Practical	Total
		per week	per week	per week	Hours
	4	4	-		60
Course	This course delves	into the fur	nctioning an	d intricacies	of financial
Summary	markets, providing	students with	h a comprel	hensive under	rstanding of
	fundamental concept	ts, financial	instruments	s, market stru	actures, and
	services.				

CO	CO Statement	Cognitive	Knowledge	<b>Evaluation Tools</b>
		Level*	Category#	used
CO	Understand the basic concepts of	U	С	Instructor-
1	financial markets, financial			created exams /
	instruments, and financial			Quiz
	services.			
CO	Analyze theories of market	An	С	Practical
2	efficiency, investment strategies,			Assignment
	and risk management.			
CO	Apply the impact of market	Ap	F	Seminar
3	regulations, financial			Presentation /
	intermediaries, and technological			Group
	advancements on financial			Discussion
	markets.			
CO	Apply financial theories and	Ap	С	Instructor-
4	concepts to analyze market trends,			created exams /
	make investment decisions, and			Home
	manage financial			Assignments
	risks.			
CO	Understand on financial market	U	F	Viva Voce
5	reforms, corporate governance,			
	and ethical			
	considerations in finance.			
* _ P.	emember (R) Understand (U) Apply	y (An) Analysa	(An) Evaluate (E)	Create (C)

<sup>\* -</sup> Remember (R), Understand (U), Apply (Ap), Analyse (An), Evaluate (E), Create (C)

<sup>#</sup> - Factual Knowledge(F) Conceptual Knowledge (C) Procedural Knowledge (P) Metacognitive Knowledge (M)

An Introduction to Indian Financial System	Modul	Unit	Content	Hrs	Marks
Financial System- definitions- functions	e				
2	I		An Introduction to Indian Financial System	10	12
3   Formal and Informal financial sectors in India -   2		1	Financial System- definitions- functions	1	
Structures   4		2	Key elements of well-functioning financial system	2	
4		3	Formal and Informal financial sectors in India -	2	
S			Structures		
1		4	Components of Formal Financial Sector in India -	1	
Tolian Financial Instruments - Financial services   1		5	Financial Institutions-	1	
S		6	Financial Markets	1	
Indian Financial System - An Overview   9		7	Financial Instruments - Financial services	1	
9 Phase I - Pre 1951 Organisation 2 10 Phase II - 1951 to mid-eighties 3 11 Phase III - Post Nineties 2 12 Economic Reforms 2 13 Financial Sector Reforms 3 14 Committees and Recommendations 3 14 Committees and Recommendations 1 15 Money Market in India 15 16 Role of Reserve Bank of India- 2 17 Steps to develop Money Market in India 1 18 Money Market Instruments - T-Bills, Commercial Papers, Commercial Bills, Certificates of Deposits- Call/Short Notice Money- Collaterised Borrowing and Lending Obligation (CBLO) 19 Tools for managing liquidity in Indian Money Market-Reserve Requirements, Interest rates, Prime Lending rate, Bank rate, Refinance from RBI, Liquidity Adjustment Facility, Repos  IV Capital Market in India 8 20 20 Capital Market Instruments - History of Indian Capital Market - Reforms in Indian Capital Market - Instruments, Methods of raising capital, Role of Stock Exchanges - BSE and NSE, Trading Mechanism in Stock Exchanges - BSE and NSE, Trading Mechanism in Stock Exchanges 22 Derivative Market - Instruments 2  V Stock Indices in India 12 8		8	Components of Informal financial sector in India	1	
10   Phase II - 1951 to mid-eighties   3   11   Phase III - Post Nineties   2   12   Economic Reforms   2   13   Financial Sector Reforms   3   14   Committees and Recommendations   3   14   Committees and Recommendations   3   15   Money Market in India   15   Money Market - Definition- Functions   1   16   Role of Reserve Bank of India-   2   17   Steps to develop Money Market in India   1   18   Money Market Instruments - T-Bills, Commercial Papers, Commercial Bills, Certificates of Deposits- Call/Short Notice Money- Collaterised Borrowing and Lending Obligation (CBLO)   19   Tools for managing liquidity in Indian Money Market-Reserve Requirements, Interest rates, Prime Lending rate, Bank rate, Refinance from RBI, Liquidity Adjustment Facility, Repos   10   Capital Market - Definition- Functions - Components - Capital Market Instruments - History of Indian Capital Market - Reforms in Indian Capital Market - Reforms in Indian Capital Market - Instruments, Methods of raising capital, Role of Stock Exchanges - BSE and NSE, Trading Mechanism in Stock Exchanges   22   Derivative Market - Instruments   2   12   12   12   13   14   15   15   16   16   16   16   16   16	II		Indian Financial System - An Overview	15	24
11		9	Phase I - Pre 1951 Organisation	2	
12   Economic Reforms   2   13   Financial Sector Reforms   3   14   Committees and Recommendations   3   34		10	Phase II - 1951 to mid-eighties	3	
13		11	Phase III - Post Nineties	2	
14   Committees and Recommendations   3		12	Economic Reforms	2	
Money Market in India   15   15   16   16   Role of Reserve Bank of India-   17   Steps to develop Money Market in India   18   Money Market Instruments - T-Bills, Commercial Papers, Commercial Bills, Certificates of Deposits- Call/Short Notice Money- Collaterised Borrowing and Lending Obligation (CBLO)   19   Tools for managing liquidity in Indian Money Market-Reserve Requirements, Interest rates, Prime Lending rate, Bank rate, Refinance from RBI, Liquidity Adjustment Facility, Repos   20   Capital Market - Definition- Functions - Components - Capital Market Instruments - History of Indian Capital Market - Reforms in Indian Capital Market   21   Primary Market and Secondary Market - Instruments, Methods of raising capital, Role of Stock Exchanges - BSE and NSE, Trading Mechanism in Stock Exchanges   22   Derivative Market - Instruments   2   2   3   2   4   4   4   4   4   4   4   4   4		13	Financial Sector Reforms	3	
15   Money Market - Definition- Functions   1   16   Role of Reserve Bank of India-   2   17   Steps to develop Money Market in India   1   18   Money Market Instruments - T-Bills, Commercial Papers, Commercial Bills, Certificates of Deposits- Call/Short Notice Money- Collaterised Borrowing and Lending Obligation (CBLO)   19   Tools for managing liquidity in Indian Money Market-Reserve Requirements, Interest rates, Prime Lending rate, Bank rate, Refinance from RBI, Liquidity Adjustment Facility, Repos   8   20     20   Capital Market - Definition- Functions - Components - Capital Market Instruments - History of Indian Capital Market - Reforms in Indian Capital Market - Instruments, Methods of raising capital, Role of Stock Exchanges - BSE and NSE, Trading Mechanism in Stock Exchanges   2   Derivative Market - Instruments   2     2     5		14	Committees and Recommendations	3	
16	III		Money Market in India	15	34
17		15	Money Market - Definition- Functions	1	
18		16	Role of Reserve Bank of India-	2	
18		17	Steps to develop Money Market in India	1	
Commercial Bills, Certificates of Deposits- Call/Short Notice Money- Collaterised Borrowing and Lending Obligation (CBLO)  19 Tools for managing liquidity in Indian Money Market- Reserve Requirements, Interest rates, Prime Lending rate, Bank rate, Refinance from RBI, Liquidity Adjustment Facility, Repos  IV Capital Market in India 20 Capital Market - Definition- Functions - Components - Capital Market Instruments - History of Indian Capital Market - Reforms in Indian Capital Market  21 Primary Market and Secondary Market - Instruments, Methods of raising capital, Role of Stock Exchanges - BSE and NSE, Trading Mechanism in Stock Exchanges  22 Derivative Market - Instruments  V Stock Indices in India Discussion: Stock Indices in India and its Calculations		18	- · ·	5	
Notice Money- Collaterised Borrowing and Lending Obligation (CBLO)  19 Tools for managing liquidity in Indian Money Market-Reserve Requirements, Interest rates, Prime Lending rate, Bank rate, Refinance from RBI, Liquidity Adjustment Facility, Repos  IV Capital Market in India 20 Capital Market - Definition- Functions - Components - Capital Market Instruments - History of Indian Capital Market - Reforms in Indian Capital Market  21 Primary Market and Secondary Market - Instruments, Methods of raising capital, Role of Stock Exchanges - BSE and NSE, Trading Mechanism in Stock Exchanges  22 Derivative Market - Instruments  2 V Stock Indices in India Discussion: Stock Indices in India and its Calculations			_		
Lending Obligation (CBLO)  19 Tools for managing liquidity in Indian Money Market-Reserve Requirements, Interest rates, Prime Lending rate, Bank rate, Refinance from RBI, Liquidity Adjustment Facility, Repos  IV Capital Market in India 20 Capital Market - Definition- Functions - Components - Capital Market Instruments - History of Indian Capital Market - Reforms in Indian Capital Market  21 Primary Market and Secondary Market - Instruments, Methods of raising capital, Role of Stock Exchanges - BSE and NSE, Trading Mechanism in Stock Exchanges  22 Derivative Market - Instruments  2 V Stock Indices in India Discussion: Stock Indices in India and its Calculations			_		
Tools for managing liquidity in Indian Money Market-Reserve Requirements, Interest rates, Prime Lending rate, Bank rate, Refinance from RBI, Liquidity Adjustment Facility, Repos  IV  Capital Market in India  Capital Market - Definition- Functions - Components - Capital Market Instruments - History of Indian Capital Market - Reforms in Indian Capital Market  Primary Market and Secondary Market - Instruments, Methods of raising capital, Role of Stock Exchanges - BSE and NSE, Trading Mechanism in Stock Exchanges  Derivative Market - Instruments  V Stock Indices in India  Discussion: Stock Indices in India and its Calculations					
Reserve Requirements, Interest rates, Prime Lending rate, Bank rate, Refinance from RBI, Liquidity Adjustment Facility, Repos  IV  Capital Market in India  20 Capital Market - Definition- Functions - Components - Capital Market Instruments - History of Indian Capital Market - Reforms in Indian Capital Market  21 Primary Market and Secondary Market - Instruments, Methods of raising capital, Role of Stock Exchanges - BSE and NSE, Trading Mechanism in Stock Exchanges  22 Derivative Market - Instruments  V Stock Indices in India Discussion: Stock Indices in India and its Calculations		19	Tools for managing liquidity in Indian Money Market-	6	
Facility, Repos  Capital Market in India  Capital Market - Definition- Functions - Components - Capital Market Instruments - History of Indian Capital Market - Reforms in Indian Capital Market  Primary Market and Secondary Market - Instruments, Methods of raising capital, Role of Stock Exchanges - BSE and NSE, Trading Mechanism in Stock Exchanges  Derivative Market - Instruments  Stock Indices in India Discussion: Stock Indices in India and its Calculations					
IV Capital Market in India  20 Capital Market - Definition- Functions - Components - Capital Market Instruments - History of Indian Capital Market - Reforms in Indian Capital Market  21 Primary Market and Secondary Market - Instruments, Methods of raising capital, Role of Stock Exchanges - BSE and NSE, Trading Mechanism in Stock Exchanges  22 Derivative Market - Instruments  2 V Stock Indices in India Discussion: Stock Indices in India and its Calculations			1		
20 Capital Market - Definition- Functions - Components - Capital Market Instruments - History of Indian Capital Market - Reforms in Indian Capital Market  21 Primary Market and Secondary Market - Instruments, Methods of raising capital, Role of Stock Exchanges - BSE and NSE, Trading Mechanism in Stock Exchanges  22 Derivative Market - Instruments  2 V  Stock Indices in India Discussion: Stock Indices in India and its Calculations			Facility, Repos		
Capital Market Instruments - History of Indian Capital Market - Reforms in Indian Capital Market  21 Primary Market and Secondary Market - Instruments, Methods of raising capital, Role of Stock Exchanges - BSE and NSE, Trading Mechanism in Stock Exchanges  22 Derivative Market – Instruments  2 V  Stock Indices in India Discussion: Stock Indices in India and its Calculations	IV		Capital Market in India	8	20
Market - Reforms in Indian Capital Market  21 Primary Market and Secondary Market - Instruments, Methods of raising capital, Role of Stock Exchanges - BSE and NSE, Trading Mechanism in Stock Exchanges  22 Derivative Market – Instruments  2 V Stock Indices in India Discussion: Stock Indices in India and its Calculations		20	Capital Market - Definition- Functions - Components -	3	
Methods of raising capital, Role of Stock Exchanges - BSE and NSE, Trading Mechanism in Stock Exchanges  22 Derivative Market – Instruments  2 V Stock Indices in India Discussion: Stock Indices in India and its Calculations			*		
BSE and NSE, Trading Mechanism in Stock Exchanges  22 Derivative Market – Instruments  2 V Stock Indices in India Discussion: Stock Indices in India and its Calculations		21	Primary Market and Secondary Market - Instruments,	3	
22 Derivative Market – Instruments 2  V Stock Indices in India 12 8  Discussion: Stock Indices in India and its Calculations			Methods of raising capital, Role of Stock Exchanges -		
V Stock Indices in India 12 8  Discussion: Stock Indices in India and its Calculations			BSE and NSE, Trading Mechanism in Stock Exchanges		
Discussion: Stock Indices in India and its Calculations		22	Derivative Market – Instruments	2	
	V	Stock	Indices in India	12	8
Practical Assignments on Leading companies of India			Discussion: Stock Indices in India and its Calculations		
			Practical Assignments on Leading companies of India		

	and Kerala	
	Seminar on how to participate in Online Trading in	
	Indian Capital Market	

#### REFERENCE:

1. Bharati V Pathak (2011). The Indian Financial System Markets, Institutions and Services Dorling Kindersley (India) Pvt Ltd, Licensees of Pearson Education in South Asia(Module I,II,II, and IV)

### **ADDITIONAL READINGS**

- 1. Borjas, G.J. (2020). Labour Economics. Mcgraw-Hill.
- 2. Boeri, T., & Ours, J. (2008). The Economics of Imperfect Labor Markets, Princeton University Press
- 3. Junankar, P. (2016). Economics of Labour Market. Palgrave.
- 4. Sapsford, D., & Tzannatos, Z. (1993). The Economics of Labour the Market.
- 5. Fine, B. (1998). Labour Market Theory: A Constructive Reassessment. Routledge.
- 6. McConnel, C.,Brue,S.,&Mac,D.(2017).Contemporary LabourEconomics. McGraw-Hill Education
- 7. State planning Board, Economic Review, Thiruvananthapuram
- 8. https://mospi.gov.in>nsso-reports
- 9. https://dbie.rbi.org.in/#/dbie/home

#### MAPPING OF COS WITH PSOS:

	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6	PO1	PO2	PO3	PO4	PO5	PO6	PO7
CO 1	3	-	-	-	-	-	3	-	-	-	-	-	-
CO 2	3	3	-	2	1	2	1	-	3	1	1	1	1
CO 3	-	3	-	2	-	-	ı		ı	ı	3	ı	ı
CO 4	-	3	1	2	-	3	-	-	-	2	-	-	-
CO 5	-	3	-	2	2	1	-	-	-	-	2	-	-

# **CORRELATION LEVELS:**

Level	Correlation
-	Nil
1	Slightly / Low
2	Moderate / Medium
3	Substantial / High

# **ASSESSMENT RUBRICS:**

- 2 Quiz / Assignment/ Viva Voce/ Discussion / Seminar
- Internal Exam
- Practical Assignments (20%)
- Final Exam (70%)

	Internal Exam	Quiz / Assignment/ Viva Voce/ Discussion / Seminar	Practical Assignment	End Semester Examination
CO 1	✓	✓		✓
CO 2	✓	✓	✓	✓
CO 3	✓	✓	✓	✓
CO 4	✓	✓	✓	✓
CO 5	✓	✓	✓	

Programme	B.A. Economics Hon	ours			
Course Title	DEMOGRAPHY				
Type of Course	Elective				
Semester	VI				
Academic Level	300-399				
Course Details	Credit	Lecture	Tutorial	Practical	Total
		per week	per week	per week	Hours
	4	4	-	-	60
Pre-requisites	Economics Course o	f 200 – 299 l	evel		
Course Summary	The course covers the	dynamics of	f population g	growth, theore	tical aspects
	of population, den	nographic d	ata sources.	empirical	and policy
	implications of demo	graphic issue	es in a develo	ping country l	like India.

СО	CO Statement	Cognitive Level*	Knowledg e Category#	Evaluation Tools used
CO 1	Understand the basic concepts, theories, policies and data sources of demography	U	С	Instructor-created exams / Quiz
CO 2	Analyse the population dynamics with respect to fertility, mortality, nuptiality, migration and urbanisation	An	p	Instructor-created exams/ Practical Assignment / Seminar Presentation
CO 3	Examine the age and sex composition of population in developed and less developed countries	E	С	Instructor-created exams/ Seminar Presentation / Observation of Practical Skills
CO 4	Evaluate the effectiveness of India's current population policy in addressing the country's demographic challenges.	E	С	Instructor-created exams / Group Discussion Home Assignments/
CO 5	Equip the students with practical skills needed to interpret contemporary demographic issues and to frame suitable demographic policies	С	P	Writing assignments/Group Discussion/ Viva Voce/Seminars

<sup>\* -</sup> Remember (R), Understand (U), Apply (Ap), Analyse (An), Evaluate (E), Create (C)

<sup># -</sup> Factual Knowledge(F) Conceptual Knowledge (C) Procedural Knowledge (P) Metacognitive Knowledge (M)

Module	Unit	ABUS: Content	Hrs	Marks
I	Omt	Introduction to Demography	112	24
1	1	Nature and scope of population studies, population studies	1	<b>∠</b> 4
	1	and Demography	1	
	2	Interrelation between Population studies and other Disciplines	1	
	3	Development of population studies	2	
	4	Theories of Population Malthusian Theory, Optimum theory of population and theory of demographic transition	4	
	5	Sources of demographic data in India- Census, Civil Registration System, National Sample Survey, Demographic Survey – National Family Health survey (Recent report in detail)	4	
II		Population Dynamics	16	36
	6	Fertility- Meaning, Fecundity and fertility, sterility, Natural fertility, Factors affecting fertility.	2	
	7	Basic measures of Fertility: crude birth rate (CBR), general fertility rate (GFR), child-woman ratio (CWR), Age specific Fertility rate (ASFR), total fertility rate (TFR), gross reproduction rate (GRR), and net reproduction rate (NRR).	2	
	8	Mortality -Meaning; Sources of mortality Data, Factors affecting mortality	2	
	9	Basic measures of mortality: Crude death rate (CDR), Age specific death rate (ASDR), infant mortality rate (IMR), crude mortality rate (CMR), maternal mortality ratio (MMR), Neonatal mortality rate (NMR), standardised death rate (SDR) and Life tables	2	
	10	Nuptiality- Meaning; Concepts- age at marriage, Synthetic and decadal synthetic cohort methods- Mean age at widowhood and divorce- Trends in age at marriage	2	
	11	Migration: General terms and concepts, types of migration, factors affecting migration	3	
	12	Urbanization: concept and measurement, Recent trends in urban population.	3	
III		Age and Sex Composition of population	10	19
	13	Age pyramids: types, concepts of stationary, stable and quasi - stationary population	2	
	14	Patterns of sex and age structure in developed and developing countries	2	
	15	Age and sex structure in India	2	1
	16	Benefits and issues associated with Demographic dividend	2	1
	17	Ageing of population	2	1
IV		Population policy in India	10	19
	18	History of Family planning in India	2	
	19	Family Planning Programme— Organisational structure, approaches to family planning programme implementation, family planning methods and achievements	3	

	20	The child survival and safe motherhood (CSSM) Programme	2	
	21	Reproductive and child health programme (RCH	1	
	22	National Population Policy 2000	2	
V	Pop	ulation Growth and Sustainable Development in Practice	12	
	1	construct and interpret life tables based upon the latest population data		
	2	Conduct a ward level population survey to identify the age and sex composition of particular locality		
	3	Student-led seminars on key global demographic trends		
	4	Debate on population growth and sustainable development.		

#### REFERENCE:

- 1. Asha A. Bhende & Tara Kanitkar (2019). *Principles of Population Studies*. Nineteenth Edition, Hi- malaya Publishing house, Mumbai (Module 1, 2, 3 & 4)
- **2.** S. N. Agarwala (1997) *India's Population Problems*. Second Edition McGraw-Hill Publishing com- pany Ltd. New Delhi (Module 2,3&4)
- 3. UNCTAD *Handbook of Statistics* 2023(Module 3, Unit 14)

#### **ADDITIONAL READINGS**

- 1. Nancy E Riley & James McCarthy (2003) Demography in the age of postmodern. First Edition, Cambridge University Press, UK
- 2. Srinivasan, K. And A. Shariff (1998), India: Towards Population and Demographic goals, Oxford University Press, New Delhi
- 3. J N Desai M.L Jhingan, B.K Bhatt (2016), 'Demography' Vrinda Publications (P) Ltd
- 4. Government of India: Census of India and Related Monographs and Reports.
- 5. U.N: Methods of Measuring Internal Migration- 1979
- 6. Bose, A., (1996), India's Basic Demographic Statistics, B. Publishing Corporation, New Delhi

# MAPPING OF COS WITH PSOS:

	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6	PO1	PO2	PO3	PO4	PO5	PO6	PO7
CO 1	3	-	-	-	-	-	3	-	-	-	-	-	1
CO 2	-	2	-	3	2	-	2	-	-	-	1	1	2
CO 3	-	2	-	3	2	-	-	-	-	-	2	1	-
CO 4	-	1	-	2	3	3	1	1	1	-	-	-	-
CO 5	-	3	-	2	1	3	-	-	3	-	2	-	2

# **CORRELATION LEVELS:**

Level	Correlation
-	Nil
1	Slightly / Low
2	Moderate / Medium
3	Substantial / High

# **ASSESSMENT RUBRICS:**

Quiz / Assignment/ Viva Voce/ Discussion / Seminar

- Internal Exam
- Practical Assignments (20%)
- Final Exam (70%)

	Internal Exam	Quiz / Assignment/ Viva Voce/ Discussion / Seminar	Practical Assignment	End Semester Examination
CO 1	<b>√</b>	✓		<b>√</b>
CO 2	√	✓	✓	✓
CO 3	✓	✓	✓	✓
CO 4	✓	✓		✓
CO 5		√	<b>√</b>	

Programme	B.A. Economics Hon	ours			
Course Title	BASIC METHODS	FOR ECON	NOMIC RES	EARCH	
Type of Course	Elective				
Semester	VI				
Academic Level	300 - 399				
Course Details	Credit	Lecture	Tutorial	Practical	Total
		per week	per week	per week	Hours
	4	4	-	-	60
Pre-requisites	Economics course of	200 – 299 le	vel		
Course Summary	This course seeks bas	sic information	on about resea	arch and its ide	eas,
	literature, formation,	analysis, inte	erpretation, ar	nd presentation	n.

СО	CO Statement	Cognitive Level*	Knowledge Category#	Evaluation Tools used
CO1	Understand the historical and philosophical ideas of social research.	U	С	Instructor-created exams / Quiz
CO2	Identification of a research problem and analysis of its cause-and-effect relationship.	An	P	Practical Assignment
CO3	To apply scientific Methods in research.	Ap	F	Seminar Presentation / Group Discussion
CO4	To analyse and interpret data with appropriate tools	Ap	С	Instructor-created exams / Home Assignments
CO5	Create new research tools, concepts, and theories and apply to present world situation.	Е	M	Viva

# DETAILED SYLLABUS:

Modul	Unit	Content	Hrs	Marks
e				
I		Fundamentals of Research	11	20
	1	Research- Meaning, Objectives, Importance,	1	
		characteristics of good research		
	2	The relation between theory and research	1	
	3	Research methods v/s Methodology	1	
	4	Types of research—Descriptive v/s Analytical, Applied	4	

<sup>\* -</sup> Remember (R), Understand (U), Apply (Ap), Analyse (An), Evaluate (E), Create (C) # - Factual Knowledge(F) Conceptual Knowledge (C) Procedural Knowledge (P) Metacognitive Knowledge (M)

		v/s Fundamental, Quantitative v/s Qualitative,		
		Conceptual v/s Empirical	1	_
	5	Scientific and Social research	1	
	6	Special features of social research	1	
	7	Different approaches in social research.	1	
	8	The importance of surveying existing literature in economic research.	1	
II		Research Design	13	30
	9	Research Formulation – Identifying, defining and	2	
		formulating the research problem		
	10	Importance of literature review in defining a problem - Identifying research gap - Development of working hypothesis	4	
	11	Research design – Basic Principles- Need of research design — Features of good research design –	3	
		Components of Research Design		
	12	Methods of Research Design- Exploratory, diagnostic	3	
		and experimental studies- Deductive and inductive		
		method- Static and dynamic method- Historical and		
	13	dialectical method- Case study method Interdisciplinary research.	1	
	13	interdiscipinary research.	1	
III		Sources and Collection of Data	9	25
	14	Execution of the research - Observation and Collection	1	
		of data		
	15	Methods of data collection – Primary data and	1	
			1	
	16	Secondary data		_
	16	Secondary data Primary Data - Meaning, sources, merits and demerits,	5	
	16	Secondary data  Primary Data - Meaning, sources, merits and demerits, collection of Data - survey method, observation method,		
	16	Secondary data Primary Data - Meaning, sources, merits and demerits,		
	17	Secondary data  Primary Data - Meaning, sources, merits and demerits, collection of Data - survey method, observation method, Interview method, questionnaires, schedules  Secondary data - Meaning, sources, merits and demerits	5	
		Secondary data  Primary Data - Meaning, sources, merits and demerits, collection of Data - survey method, observation method, Interview method, questionnaires, schedules  Secondary data - Meaning, sources, merits and demerits  Concepts of Universe, Population and sample.	5 1 1	_
IV	17	Secondary data  Primary Data - Meaning, sources, merits and demerits, collection of Data - survey method, observation method, Interview method, questionnaires, schedules  Secondary data - Meaning, sources, merits and demerits	5	23
IV	17	Secondary data  Primary Data - Meaning, sources, merits and demerits, collection of Data - survey method, observation method, Interview method, questionnaires, schedules  Secondary data - Meaning, sources, merits and demerits  Concepts of Universe, Population and sample.	5 1 1	23
IV	17	Primary Data - Meaning, sources, merits and demerits, collection of Data - survey method, observation method, Interview method, questionnaires, schedules  Secondary data – Meaning, sources, merits and demerits  Concepts of Universe, Population and sample.  Analysis of Data and Presentation	5 1 1 1 15	23
IV	17	Secondary data  Primary Data - Meaning, sources, merits and demerits, collection of Data - survey method, observation method, Interview method, questionnaires, schedules  Secondary data - Meaning, sources, merits and demerits  Concepts of Universe, Population and sample.  Analysis of Data and Presentation  Data preparation and preliminary analysis - editing,	5 1 1 1 15	23
IV	17 18 19	Primary Data - Meaning, sources, merits and demerits, collection of Data - survey method, observation method, Interview method, questionnaires, schedules  Secondary data - Meaning, sources, merits and demerits  Concepts of Universe, Population and sample.  Analysis of Data and Presentation  Data preparation and preliminary analysis - editing, coding, data entry, exploring, displaying.	5 1 1 15 5	23
IV	17 18 19	Secondary data  Primary Data - Meaning, sources, merits and demerits, collection of Data - survey method, observation method, Interview method, questionnaires, schedules  Secondary data - Meaning, sources, merits and demerits  Concepts of Universe, Population and sample.  Analysis of Data and Presentation  Data preparation and preliminary analysis - editing, coding, data entry, exploring, displaying.  Examining data - frequency tables, bar charts, pie	5 1 1 15 5	23
IV	17 18 19 20	Primary Data - Meaning, sources, merits and demerits, collection of Data - survey method, observation method, Interview method, questionnaires, schedules  Secondary data - Meaning, sources, merits and demerits  Concepts of Universe, Population and sample.  Analysis of Data and Presentation  Data preparation and preliminary analysis - editing, coding, data entry, exploring, displaying.  Examining data - frequency tables, bar charts, pie charts, histograms, use of percentages	5 1 1 15 5	23
IV	17 18 19 20 21	Secondary data Primary Data - Meaning, sources, merits and demerits, collection of Data - survey method, observation method, Interview method, questionnaires, schedules Secondary data - Meaning, sources, merits and demerits Concepts of Universe, Population and sample.  Analysis of Data and Presentation  Data preparation and preliminary analysis - editing, coding, data entry, exploring, displaying.  Examining data - frequency tables, bar charts, pie charts, histograms, use of percentages  Reporting and report writing	5 1 1 15 5 4	23
IV	17 18 19 20 21	Primary Data - Meaning, sources, merits and demerits, collection of Data - survey method, observation method, Interview method, questionnaires, schedules  Secondary data - Meaning, sources, merits and demerits  Concepts of Universe, Population and sample.  Analysis of Data and Presentation  Data preparation and preliminary analysis - editing, coding, data entry, exploring, displaying.  Examining data - frequency tables, bar charts, pie charts, histograms, use of percentages  Reporting and report writing  Components - prefatory items, introduction,	5 1 1 15 5 4	23
IV	17 18 19 20 21	Primary Data - Meaning, sources, merits and demerits, collection of Data - survey method, observation method, Interview method, questionnaires, schedules  Secondary data - Meaning, sources, merits and demerits  Concepts of Universe, Population and sample.  Analysis of Data and Presentation  Data preparation and preliminary analysis - editing, coding, data entry, exploring, displaying.  Examining data - frequency tables, bar charts, pie charts, histograms, use of percentages  Reporting and report writing  Components - prefatory items, introduction, methodology, findings, conclusions, appendices, bibliography, referencing and footnotes.  Application of Statistical Tools for Research	5 1 1 15 5 4	23
	17 18 19 20 21	Primary Data - Meaning, sources, merits and demerits, collection of Data - survey method, observation method, Interview method, questionnaires, schedules  Secondary data – Meaning, sources, merits and demerits  Concepts of Universe, Population and sample.  Analysis of Data and Presentation  Data preparation and preliminary analysis - editing, coding, data entry, exploring, displaying.  Examining data - frequency tables, bar charts, pie charts, histograms, use of percentages  Reporting and report writing  Components – prefatory items, introduction, methodology, findings, conclusions, appendices, bibliography, referencing and footnotes.	5 1 1 15 5 4 1 5	23
	17 18 19 20 21 22	Primary Data - Meaning, sources, merits and demerits, collection of Data - survey method, observation method, Interview method, questionnaires, schedules  Secondary data - Meaning, sources, merits and demerits  Concepts of Universe, Population and sample.  Analysis of Data and Presentation  Data preparation and preliminary analysis - editing, coding, data entry, exploring, displaying.  Examining data - frequency tables, bar charts, pie charts, histograms, use of percentages  Reporting and report writing  Components - prefatory items, introduction, methodology, findings, conclusions, appendices, bibliography, referencing and footnotes.  Application of Statistical Tools for Research	5 1 1 15 5 4 1 5	23

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#### **ADDITIONAL READINGS:**

- 1. Bryman A. (2012). Social Research Methods, Oxford University Press
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- 12. Adler, E. S. And Clark, R. (2011). An Invitation to Social Research. Belmont, CA:
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#### MAPPING OF COS WITH PSOS:

	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6	PO1	PO2	PO3	PO4	PO5	PO6	PO7
CO 1	3	-	1	1	ı	-	3	1	-	1	1	1	ı
CO 2	-	3	1	2	3	3	2	1	3	ı	-	-	1
CO 3		2	1	1	2	3	1	2	-	1	-	3	1
CO 4	-	3	2	3	3	-		-	-	-	2	-	-
CO 5	3	-	-	2	-	3	-	-	-	-	2	-	-

#### **CORRELATION LEVELS:**

Level	Correlation	
-	Nil	
1	Slightly / Low	
2	Moderate / Medium	
3	Substantial / High	

# **ASSESSMENT RUBRICS:**

- Quiz / Assignment/ Viva Voce/ Discussion / Seminar
- Internal Exam
- Practical Assignments (20%)
- 2 Final Exam (70%)

	Internal Exam	Quiz / Assignment/ Viva Voce/ Discussion / Seminar	Practical Assignment	End Semester Examination
CO 1	<b>✓</b>	<b>\</b>		<b>√</b>
CO 2	<b>√</b>	✓	✓	✓
CO 3	✓	✓	✓	<b>√</b>
CO 4	✓	✓	✓	✓
CO 5	✓	✓	✓	

Programme	B.A. Economics Honours								
Course Title	ECONOMIC GEOGRAPHY								
Type of Course	Elective								
Semester	VI								
Academic Level	300 - 399								
Course Details	Credit	Lecture	Tutorial	Practical	Total				
		per week	per week	per week	Hours				
	4	4	-	-	60				
Pre-requisites	<b>Economics Course</b>	of 200 – 299	level						
Course Summary	understanding the impact of geograph economic theories	Economics Course of 200 – 299 level  This course is designed for Economics students interested in understanding the spatial dimensions of economic activities and the impact of geographical factors on economic development. It combines economic theories with a focus on regional disparities, trade patterns, and the role of space in shaping economic outcomes.							

СО	CO Statement	Cognitive Level*	Knowledge Category#	Evaluation Tools used
C01	Understand the key social and economic issues in the context of economic globalisation	R	F	Discussion / Debates
CO2	Understand the basic concepts in Economic Geography	U	С	Instructor-created exams / Quiz
CO3	Analyse and apply key concepts and theoretical approaches in economic geography	An	Р	Practical Assignment
CO4	Critically evaluate these concepts and theoretical approaches	Ap	F	Seminar Presentation / Group Discussion
CO5	Apply these concepts and theoretical approaches to key social and economic issues in the context of economic globalisation	Ap	С	Instructor-created exams / Home Assignments/ Viva

<sup>\* -</sup> Remember (R), Understand (U), Apply (Ap), Analyse (An), Evaluate (E), Create (C)

<sup>#</sup> - Factual Knowledge(F) Conceptual Knowledge (C) Procedural Knowledge (P) Metacognitive Knowledge (M)

Modul e	Unit	Content	Hrs	Marks
I		Space and Economy: Some facts	8	20
	1	Spatial Inequalities: A Brief Historical Overview	3	
	2	The Space-Economy and the Industrial Revolution	2	
	3	Regional Disparities: When an Ancient Phenomenon Becomes Measurable	3	
II		Space in Economic Thought	21	
	4	Economics and Geography: A Puzzling History of Reciprocal Ignorance	3	
	5	Definition of Economic Geography	2	
	6	Nature of Economic Geography	2	
	7	Scope and importance of Economic Geography	2	
	8	Recent trends and approaches in economic geography.	2	34
	9	Neo-classical-inspired	2	
	10	Location theory	2	
	11	Marxist-inspired approaches,	2	
	12	Evolutionary and institutionalist inspired approaches,	2	
	13	New economic geography	2	
III		Economic Activity and Space	6	
	14	Location of Economic Activity-Agricultural Location theory of Von Thunen.	2	16
	15	Location of Secondary Activity- Industrial Location Theory of A.Weber and E. Hoover	2	
	16	Location of Tertiary Activity-Contribution of Walter Christaller and August Losch.	2	
IV		New Economic Geography (NEG)	13	
	17	Emergence of a new global economy -transnational integration and its spatial outcomes.	3	
	18	Core-Periphery Model (Krugman Model)	2	
	19	Baldwin-Forslid Model	2	28
	20	Venables Model	2	
	21	Helpman-Krugman Model	2	
	22	Melitz Model	2	
V		Regional Disparity	12	
		Investigate and analyse economic disparities between two regions using various indicators		

# REFERENCE:

1. Coe, N.M., P.F. Kelly and H.W.C. Yeung Economic Geography: A Contemporary

- Introduction. (Oxford: Blackwell, 2007) [ISBN 9781405132190].
- 2. Economic Geography: The Integration of Regions and Nations, Authors: Pierre-Philippe Combes , Jacques-François Thies , Thierry Mayer(2008)

#### **ADDITIONAL READINGS:**

#### **Books**

- 1. "Geography, Trade and Competition" by Paul Krugman:
- 2. Introduction to concepts in Economic GeographySections from the Dictionary of Human Geography
- 3. Clark, G.L., M.P. Feldman and M.S. Gertler (eds) The Oxford Handbook of Economic Geography. (Oxford; New York: Oxford University Press, 2003) [ISBN 9780199250837].
- 4. Dicken, P. Global Shift: Mapping the Changing Contours of the World Economy. (London: Sage, 2007) fifth edition [ISBN 9781593854362].
- 5. Dicken, P. and P. Lloyd Location in Space: Theoretical Perspectives in Economic Geography. (New York: Harper Collins Publishers, 1990) third edition [ISBN 9780060416775].
- 6. Ellwood, W. The No-nonsense Guide to Globalization. (London: Verso, 2001) [ISBN 9781904456445]. Hudson, R. Economic Geographies: Circuits, Flows and Spaces. (London: Sage, 2005) [ISBN 9780761948940].
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- 8. MacKinnon, D. and A. Cumbers An Introduction to Economic Geography: Globalization, Uneven Development and Place. (Harlow: Pearson/Prentice Hall, 2007) [ISBN 9780131293168].
- 9. Pike, A., A. Rodriguez-Pose and J. Tomaney Local and Regional Development. (London and New York: Routledge, 2006) [ISBN 9780415357180].
- 10. Sheppard, E. and T.J. Barnes (eds) A Companion to Economic Geography. (Malden, MA: Blackwell, 2002) [ISBN 9780631235798]. Stiglitz, J. Globalization and its Discontents. (London: Penguin, 2002) [ISBN 9780393324396]

#### **Journals**

- 1. Amin, A. and N. Thrift 'Neo-Marshallian Nodes in Global Networks', International Journal of Urban and Regional Research (16) 1992, pp.571–87.
- 2. Asheim, B. 'Industrial Districts as "Learning Regions": a condition for prosperity', European Planning Studies 4(4) 1996, pp.379–400.
- 3. Beaverstock, J.V., R.G. Smith and P.J. Taylor 'World City Network: A New Metageography?', Annals of the Association of American Geographers 90(1) 2000, pp.123–34.
- 4. Clark, G. 'Money Flows Like Mercury: The Geography of Global Finance', Geografiska Annaler Vol. 87B (2) 2005, pp.99–112.
- 5. Coe, N.M., M. Hess, H.W.C. Yeung, P. Dicken and J. Henderson "Globalizing" Regional Development: A Global Production Networks Perspective', Transactions of the Institute of British Geographers 29(4) 2004, pp.468–84.

- 6. Graham, S. 'Global Grids of Glass: On Global Cities, Telecommunications and Planetary Urban Networks', Urban Studies 36 (5/6) 1999, pp.929–49.
- 7. Henderson, J., P. Dicken, M. Hess, N. Coe and H.W.C. Yeung 'Global Production Networks and the Analysis of Economic Development', Review of International Political Economy 9(3) 2002, pp.436–64. Hudson, R. 'The Learning Economy, the Learning Firm and the Learning Region: A Sympathetic Critique of the Limits to Learning', European Urban and Regional Studies 6(1) 1999, pp.59–72.
- 8. James, A. 'Demystifying the Role of Culture in Innovative Regional Economies', Regional Studies 39(9) 2005, pp.1197–216.
- 9. MacKinnon, D., A. Cumbers and K. Chapman 'Learning, Innovation and Regional Development: A Critical Appraisal of Recent Debates', Progress in Human Geography 26(3) 2002, pp.293–311. Morgan,
  - K. 'The Learning Region: Institutions, Innovation and Regional Renewal', Regional Studies 31(5) 1997, pp.491–503.
- 10. Smith, A., A. Rainnie, M. Dunford, J. Hardy, R. Hudson and D. Sadler 'Networks of Value, Commodities and Regions: Reworking Divisions of Labour in Macro-regional Economies', Progress in Human Geography 26(1) 2002, pp.41–63

### MAPPING OF COS WITH PSOS:

	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6	PO1	PO2	PO3	PO4	PO5	PO6	PO7
CO 1	3	1	1	1	1	1	ı	-	-	ı	-	-	ı
CO 2	-	3	-	3	3	-	1	-	3	-	-	-	-
CO 3		2	-	-	-	1	-	-	-	-	2	-	-
CO 4	-	3	1	2	2	-	-	-	-	-	-	-	2
CO 5	3	-	-	-	2	-	-	-	2	-	-	-	-

#### **CORRELATION LEVELS:**

Level	Correlation
-	Nil
1	Slightly / Low
2	Moderate / Medium
3	Substantial / High

# **ASSESSMENT RUBRICS:**

- 2 Quiz / Assignment/ Viva Voce/ Discussion / Seminar
- Internal Exam
- Practical Assignments (20%)
- Final Exam (70%)

	Internal Exam	Quiz / Assignment/ Viva Voce/ Discussion / Seminar	Practical Assignment	End Semester Examination
CO 1	<b>√</b>	<b>✓</b>		<b>√</b>
CO 2	<b>√</b>	✓	<b>√</b>	<b>√</b>
CO 3	<b>√</b>	✓	<b>√</b>	<b>√</b>
CO 4	<b>√</b>	✓	✓	✓
CO 5	<b>√</b>	✓	✓	

Programme	B.A. Economics Honours									
Course Title	SOCIAL CHOICE THEORY									
Type of Course	Elective	Elective								
Semester	VIII									
Academic Level	400 – 499									
Course Details	Credit	Lecture	Tutorial	Practical	Total					
		per week	per week	per week	Hours					
	4	4	-	-	60					
Pre-requisites	Course on Microe	conomics and	d Macroecono	omics of level	300 – 399					
Course	This course is in	tended to int	roduce variou	us topics in so	ocial choice					
Summary	theory, which is a formal analysis of general preference aggregation									
	and voting rules.									

СО	CO Statement	Cognitive Level*	Knowledge Category#	Evaluation Tools used
C01	Understand the historical background and development of social choice theory.	U	F	Discussion / Debates
CO2	Discuss and develop the concepts in social choice theory.	Ap	С	Instructor-created exams / Quiz
CO3	Demonstrate how individual choices in a society can be aggregated and translated into a collective choice	An	Р	Practical Assignment
CO4	Discuss and critically evaluate the theories in social choice.	Ap	F	Seminar Presentation / Group Discussion
CO5	Examine how collective decision-making processes influence the well-being of society.	Ap	С	Instructor-created exams / Home Assignments

<sup>\* -</sup> Remember (R), Understand (U), Apply (Ap), Analyse (An), Evaluate (E), Create (C)

<sup># -</sup> Factual Knowledge(F) Conceptual Knowledge (C) Procedural Knowledge (P) Metacognitive Knowledge (M)

Modul e	Unit	Content	Hrs	Marks
I		Elements of Social Choice Theory	9	20
	1	Historical Background and development of social choice theory.	3	
	2	A special case with two alternatives- Simple Majority.	2	
	3	May's Theorem	2	
	4	Condorcet winner criterion	2	
II		General Difficulties of Preference Aggregation	20	32
	5	Binary relations	2	
	6	Preference Aggregation rule	2	
	6	Arrow's Theorem	2	
	7	Possibilities of preference aggregation	2	
	8	The liberal paradox	2	
	9	The Gibbard-Satterthwaite theorem	2	
	10	The aggregation of welfare measures or qualitative ratings	2	
	11	Sen's extension of Arrow's framework	2	
	12	The aggregation of judgments	2	
	13	The paradoxes of judgment aggregation	2	
III		Voting Rules	10	
	14	Majoritarian methods- Sequential majority	2	
	15	Copeland voting rule	2	24
	16	Positional Methods- Plurality	2	
	17	Approval Voting	2	
	18	Borda Score Voting rule	2	
IV		LIBERAL PARADOX	9	22
	19	Sen's Liberal Paradox	3	
	20	Gibbard's modification	2	
	21	Escape routes	2	
	22	Game Forms and Liberal Paradox.	2	
V	Social (	Choice Theory in Action	12	
	1	Social choice in political contexts: Parliamentary systems		
	2	Economic implications of voting rules in legislatures		
		Empirical analysis of political decision-making processes		

#### REFERENCE:

- 1. Handbook of Social Choice and Welfare edited by Kenneth Joseph Arrow, Amartya Sen, Kōtarō Suzumura
- 2. A.K.Sen (2017), Collective Choice and Social Welfare, Expanded Edition, Penguin.
- 3. A.K. Sen (1983), Choice, Welfare and Measurement, OUP.
- 4. A.K. Sen (1986), *Social Choice Theory* in Arrow and Intrilligator (ed) Handbook of Mathematical Economics, Vol III, North Holland.

#### **ADDITIONAL READINGS:**

- 1. Kenneth J. Arrow (1963), *Social Choice and Individual Values*, 2<sup>nd</sup> ed., Wiley.
- 2. K. Suzumura (1983), *Rational Choice, Collective Decisions and social Welfare*, Cambridge University Press.
- 3. Wriglesworth (1985), Libertarian Conflicts in Social Choice, Cambridge University Press.
- 4. M. Richter (1966), Revealed Preference Theory,
  - a. Econometrica.
- 5. M. Richter (1967), Rational Choice in Chipman et al. (ed)
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- 6. Prasanta K. Pattanaik (1994), Some non-welfaristic issues in Welfare Economics in Dutta (ed) *Welfare Economics*, OUP.
- 7. Gaertner, Pattanaik and Suzumura (1992), Individual Rights Revisited, Economica.
- 8. A. Gibbard (1974), A Pareto Consistent Libertarian Claim,
  - a. Journal of Economic Theory.

#### MAPPING OF COS WITH PSOS:

	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6	PO1	PO2	PO3	PO4	PO5	PO6	PO7
CO 1	3	-	1	1	1	1	1	ı	-	ı	ı	-	ı
CO 2	-	3	1	2	2	-	ı	ı	3	ı	ı	-	1
CO 3	_	2	-	2	3	-	-	-	-	-	2	1	-
CO 4	-	3	2	3	3	1	-	-	-	-	-	-	2
CO 5	3	-	-	-	2	-	-	-	2	-	-	-	-

#### **CORRELATION LEVELS:**

Level	Correlation
-	Nil
1	Slightly / Low
2	Moderate / Medium
3	Substantial / High

### **ASSESSMENT RUBRICS:**

- Quiz / Assignment/ Viva Voce/ Discussion / Seminar
- Internal Exam
- Practical Assignments (20%)
- ? Final Exam (70%)

	Internal Exam	Quiz / Assignment/ Viva Voce/ Discussion / Seminar	Practical Assignment	End Semester Examination
CO 1	✓	✓		<b>√</b>
CO 2	<b>√</b>	✓	✓	<b>√</b>
CO 3	<b>✓</b>	<b>✓</b>	<b>√</b>	<b>√</b>
CO 4	<b>√</b>	<b>√</b>	<b>√</b>	<b>√</b>
CO 5	<b>√</b>	✓	<b>√</b>	

Programme	B.A. Economics Honours								
Course Title	BANKING AND INSURANCE								
Type of Course	Elective								
Semester	VIII								
Academic Level	400 – 499								
Course Details	Credit	Lecture	Tutorial	Practical	Total				
		per week	per week	per week	Hours				
	4	4	-	-	60				
Course Summary	Students understand t	the banking a	and insurance	practices. Ar	nd at the end				
	of the Course student will be able to evaluate banking procedure and also								
	take up job in banks a	and insurance	e sector.						

CO	CO Statement	Cognitive	Knowledge	<b>Evaluation Tools used</b>
		Level*	Category#	
CO1	Understand the concept of	U	С	Instructor-created
	banking and insurance			exams / Quiz
CO2	Analyze various banking	Ap	С	Practical Assignment /
	services and insurance policies			Observation of Practical
				Skills
CO3	Understand different insurance	U	P	Seminar Presentation /
	and banking services			Group Discussion
CO4	Apply the knowledge in	Ap	С	Instructor-created
	day- to-day banking			exams / Home
	practices			Assignments
CO5	Understand the practical	U	С	Writing assignments
	knowledge in banking services			

<sup>\* -</sup> Remember (R), Understand (U), Apply (Ap), Analyse (An), Evaluate (E), Create (C)

<sup>#</sup> - Factual Knowledge (F) Conceptual Knowledge (C) Procedural Knowledge (P) Metacognitive Knowledge (M)

### DETAILED SYLLABUS:

Modul	Unit	Content	Hrs	Marks
e I		Types of Banks	14	25
1	1	Banks- meaning and economic importance	2	
				-
	2	types of banks- Central Bank- Commercial banks- Development banks, Cooperative banks- Structure and functioning	2	
	3	Development financial institutions (IFCI, IDBI, IIBI, SIDBI) - Specialized financial institutions (EXIM Bank-National Housing Bank- NABARD-MUDRA bank)	3	
	4	Specialized investment institutions (Pension funds- Hedge funds- Mutual funds -UTI)-	2	
	5	Non Banking Financial Companies-Investment banks-Merchant banks.	5	
II		Banking Services	10	19
	6	Types of accounts, KYC and Bank account, Loans, Money Transfer, Credit and debit cards, Lockers.	3	
	7	Innovations in Banking Transactions-Mail transfer-Telegraphic transfer-MICR clearing- Automated clearing system-Electronic funds transfer-	2	
	8	Digital payment system- E-banking-Virtual payments systems	1	
	9	Internet banking- Mobile banking and mobile application, Home banking-Tele-banking-Core banking.	1	
	10	Why is Customer Service Important, key areas of customer's services, Customer service strategies in banking sector	2	
	11	Customer feedback and complaints	1	
III		Banking Sector Reforms in India	10	30
	12	Banking sector reforms since 1991- Context, need and objectives- Implementations of the Narsimham Committee recommendations-	2	
	13	Issues in banking sector reforms-	1	
	14	Priority sector lending-Asset classification	2	1
	15	Non-performing assets-Capital adequacy norms-	2	
	16	Regulation of the banking sector-Board for Financial Supervision-Credit Information Bureau of India Limited (CIBIL)-Banking	2	
	17	Ombudsman-SARFAESI Act.	1	
IV		Insurance	14	32
	18	Introduction to insurance: Purpose and need of insurance: Insurance as a social security tool	2	
	19	Insurance and economic development	2	
	20	Fundamental Principles of Insurance, Reinsurance	2	
	21	Types of Insurance: Life Insurance, General Insurance: Marine, Fire, Medical, Health etc.	5	
	22	Actuarial science meaning, Regulatory agencies of insurance in India	3	
V	Ban	ks and Insurance	12	
		Learn about the legal framework within which banks and insurance companies operate.		

#### REFERENCE:

- 1. Sukhvinder Mishra, Banking law and practices, Sulthan chand publishing, New Delhi
- 2. Gordon and Natarajan, Banking-theory, law and practices, Himalaya Publishing house, New Delhi
- 3. M.N Mishra and S.B Mishra, Insurance- Principles and practices, Sulthan chand publishing, New Delhi

#### **ADDITIONAL READINGS**

- 1. MH de Kock: Central Banking- Universal Book Stall, New Delhi.
- 2. Meir Kohn(1996):Financial InstitutionsandMarkets-TataMcGrawHill.
- 3. Roger LeRoy Miller and DavidVanHoose (1993): Modern Money and Banking-McGraw-Hill International.
- 4. Mishra M.N: Insurance Principles and practice; S. Chand and co, New Delhi.
- 5. Insurance principles and practice Moorthy.A, Margham publications, Chennai
- 6. Jawed Akhtar and Shabbir Alam: Banking System in India: Reforms and Performance Evaluation- New Century Publications, New Delhi.

### MAPPING OF COS WITH PSOS:

	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6	PO1	PO2	PO3	PO4	PO5	PO6	PO7
CO 1	3	-	-	-	-	4	1	-	-	ı	-	-	-
CO 2	-	3	-	1	-	-	-	-	3	ı	-	-	-
CO 3	3	-	-	1	5	-	-	-	-	-	2	-	-
CO 4	-	3	1	2	-	-	-	-	-	-	-	-	2
CO 5	3	-	-	-	-	-	-	-	2	-	-	_	-

### **CORRELATION LEVELS:**

Level	Correlation
-	Nil
1	Slightly / Low
2	Moderate / Medium
3	Substantial / High

### **ASSESSMENT RUBRICS:**

- Quiz / Assignment/ Viva Voce/ Discussion / Seminar
- Internal Exam
- Practical Assignments (20%)
- Pinal Exam (70%)

	Internal Exam	Quiz / Assignment/ Viva Voce/ Discussion / Seminar	Practical Assignment	End Semester Examination
CO 1	<b>✓</b>	<b>✓</b>		<b>√</b>
CO 2	<b>√</b>		<b>√</b>	<b>√</b>
CO 3	<b>√</b>	<b>✓</b>		<b>√</b>
CO 4	✓	✓		<b>√</b>
CO 5		✓	✓	
CO 6	<b>√</b>		<b>√</b>	

Programme	B.A. Economics Hon	ours						
Course Title	ECONOMICS OF EDUCATION							
Type of Course	Elective							
Semester	VIII							
Academic Level	400 - 499							
Course Details	Credit	Lecture	Tutorial	Practical	Total			
		per week	per week	per week	Hours			
	4	4	-	-	60			
Course	This course provides	an overview	of economi	cs of education	on to lay out			
Summary	the evidence as clearly as possible, note agreements, disagreements, and							
	unresolved points in literature, and to help students develop the tools							
	necessary to draw the	ir own concl	usions.					

# Course Outcomes (CO):

CO Statement	Cognitive	Knowledge	Evaluation
	Level*	Category#	Tools used
explore the interrelationship	U	F	Instructor-
between economics and education			created exams /
in the modern society			Quiz
examine the demand, supply, costs	Ap	С	Practical
and benefits of education within			Assignment /
the purview of economic			Observation of
development			Practical Skills
understand the economic	U	P	Seminar
imperative of manpower planning			Presentation /
and human resource development			Group
for a country			Discussion
APPLY the education scenario of	Ap	С	Instructor-
both India and Kerala	_		created exams /
			Home
			Assignments
UNDERSTAND the education	U	С	Instructor-
scenario of States			created exams /
			Home
			Assignments
	explore the interrelationship between economics and education in the modern society examine the demand, supply, costs and benefits of education within the purview of economic development understand the economic imperative of manpower planning and human resource development for a country  APPLY the education scenario of both India and Kerala  UNDERSTAND the education	explore the interrelationship between economics and education in the modern society examine the demand, supply, costs and benefits of education within the purview of economic development understand the economic imperative of manpower planning and human resource development for a country  APPLY the education scenario of both India and Kerala  UNDERSTAND the education scenario of States  U  U  U  U  U  U  U  U  U  U  U  U  U	explore the interrelationship between economics and education in the modern society examine the demand, supply, costs and benefits of education within the purview of economic development understand the economic imperative of manpower planning and human resource development for a country  APPLY the education scenario of both India and Kerala  UNDERSTAND the education U C C Category#  U F  C Ap C Ap C Ap C C C C C C C C C C C C

<sup>\* -</sup> Remember (R), Understand (U), Apply (Ap), Analyse (An), Evaluate (E), Create (C)

<sup># -</sup> Factual Knowledge(F) Conceptual Knowledge (C) Procedural Knowledge (P) Metacognitive Knowledge (M)

### **DETAILED SYLLABUS:**

Module	Uni	Content	Hr	Marks
	t		S	
I		Education, Economics and the Modern Society	10	14
	1	Education in the modern world	2	
	2	Socio-economic significance of education	2	
	3	Economists' perception of education	2	
	4	Education as a public/merit good	2	
	5	Economics of education: The subject matter, framework and significance	2	
II		Education and Economic Development	12	28
	6	Education as the prime mover of modern society	2	1
	7	Education and economic growth	2	1
	8	Indicators of economic and educational development	2	1
	9	Stages of economic and educational development	2	1
	10	Demand for education and its major determinants	2	
	11	Supply of Education and its major determinants	2	
III		Cost and Benefits of Education	12	26
	12	Education as an investment – Private return and social return	2	
	13	Costs and benefits of education – Direct and indirect social benefits –	4	
		Cost-benefit analysis of education		
	14	Rate of return analysis	2	
	15	Input-output analysis	2	
	16	Wastage and stagnation in education	1	1
	17	Educational budgets	1	1
IV		Human Capital and Manpower Planning	14	30
	18	Economic imperative of human capital	2	1
	19	Human resource development – Process of human resource	5	
		development – Indicators of human resource development –		
	20	Linking education with the economy	2	
	21	Educational planning	2	1
	22	Manpower planning – Features and techniques of manpower planning	3	1
		and forecasting		
V		Initiatives for Educational Development	12	
		<b>Discussion</b> based on the primary, secondary, higher secondary and		
		higher education scenario of India and Kerala		
		Practical Assignments on Initiatives for educational development		
		Seminar on the new education policy and its impacts on the national		
		and regional economy		

# REFERENCE:

1. Chattopadhyay, S. (2012). Education and Economics: Disciplinary Evolution and Policy Discourse. OUP India. (All modules)

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### MAPPING OF COS WITH PSOS:

	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6	PO1	PO2	PO3	PO4	PO5	PO6	PO7
CO 1	1	-	-	-	-	3	1	-	-	ı	-	-	1
CO 2	-	1	-	-	-	2	-	-	3	-	-	-	-
CO 3	2	-	3	-	-	3	-	-	-	-	2	-	-
CO 4	-	-	-	1	2	-	-	-	-	-	-	-	2
CO 5	-	-	-	1	2	-	-	-	2	_	-	_	-

### **CORRELATION LEVELS:**

Level	Correlation			
-	Nil			
1	Slightly / Low			
2	Moderate / Medium			
3	Substantial / High			

### **ASSESSMENT RUBRICS:**

- 2 Quiz / Assignment/ Viva Voce/ Discussion / Seminar
- Internal Exam
- Practical Assignments (20%)
- Final Exam (70%)

	Internal Exam	Quiz / Assignment/ Viva Voce/ Discussion / Seminar	Practical Assignment	End Semester Examination
CO 1	<b>√</b>	<b>✓</b>		✓
CO 2	<b>√</b>		✓	<b>√</b>
CO 3	<b>√</b>	✓		<b>√</b>
CO4	✓		✓	√
CO5	✓	✓		✓

Programme	B.A. Economics	Honours					
Course Title	LAW AND ECO	ONOMICS					
Type of Course	Elective						
Semester	VIII						
Academic Level	400 – 499						
Course Details	Credit	Lecture	Tutorial	Practical	Total		
		per week	per week	per week	Hours		
	4	4	-	-	60		
Pre-requisites	Microeconomics	course of 200	) – 299 level				
Course Summary	the way legal sy	This course provides an introductory exposure to law, legal theory and the way legal system functions and how legal process impact on the efficiency of economic activities/transactions					

CO	CO Statement	Cognitive Level*	Knowledge Category#	Evaluation Tools used
CO1	Understand how the legal aspect influences the economic behaviour and understand major legal traditions, especially in India.	U	C	Instructor-created exams / Quiz
CO2	Conduct economic analysis of law related to the regulation and enforcement of property rights and contracts.	Ap	Р	Practical Assignment /Case Studies in Indian context
CO3	Evaluate relative merits and demerits of various economic analyses of law in property rights and contract law.	U	Р	Seminar Presentation / Group Discussion
CO4	Apply economics in the theory of property rights and contract law.	Ap	С	Instructor-created exams / Home Assignments/Cases in the Indian context
CO5	Create alternative cases in property rights and contract law in the Indian context, with the insights gained from the course, which provide better policy insights.	U	F	Writing assignments/ Viva Voce

<sup>\* -</sup> Remember (R), Understand (U), Apply (Ap), Analyse (An), Evaluate (E), Create (C) # - Factual Knowledge(F) Conceptual Knowledge (C) Procedural Knowledge (P) Metacognitive Knowledge (M)

Module	Unit	COURSE CONTENT	Hours	Marks
I		An Introduction to Law and Economics	12	24
	1	Economic analysis of law	1	
	2	Why should Economists study law?	2	
	3	How to analyze legal and economic issues.	2	
	4	The Primacy of efficiency over distribution in analyzing	2	
		private law		
	5	Efficiency criteria – Pareto, Kaldor-Hicks	2	
	6	Nash Equilibrium, Fairness Criteria.	2	
	7	Markets and efficiency and Market failure	1	
II		An Introduction to Law and Legal Institutions	6	18
	8	The Civil law and the common law traditions.	1	
	9	The institutions of Judicial systems in India –	1	
	10	Legal Principles, and the functioning of Legal system	2	
	11	Economic Theory of Legal Process - Sue - Trial –Appeals –	2	
		Judiciary - Lawyers' Profession.		
III		Theory of Property Right	15	28
	12	The Nature and Function of Property Rights -	1	
	13	The origin of institution of property - The Legal Concept of	2	
		Property.		
	14	Enforcement of property rights - Bargaining Theory - An	4	
	1.5	Economic Theory of Property –		
	15	Property Rights and Coase Theorem	2	
	16	The Public Use of Private Property	2	
	17	Eminent domain and Regulation of Property –	2	
	18	Applications.  An Introduction to Intellectual Property Rights (IPRs).	2	
IV	10	The Economics of Contract Law	15	28
1 4	19	An Introduction to Contracts	1	20
	20	Complete and Incomplete Contracts - The Elements of Valid	3	
	20	and Invalid Contracts.	3	
	21	Bargaining theory- Economic Theory of Contract.	6	
	22	Contracts and Efficient Exchange - Legal Remedies as	5	
		Incentives: Applications.		
V		Case Studies	12	
·	Vari	ous Case Studies in Economics Property Rights – Various Case		
		ies in Economics of Contract		

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- 1. Cooter, R. and T. Ulen. (2004). Law and Economics, Boston: Pearson Addison Wesley Supplementary Readings.
- 2. Posner, Richard A. (1998). Economic Analysis of Law. (5th edition) Little Brown, Boston.
- 3. Seervai H M (1991) Constitutional Law of India, Vol. 1-3 NM Tripathi.

### ADDITIONAL READINGS

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- 2. BarzelYoran, The Economics of Property Rights (1988). Cambridge University Press.
- 3. Steven Shavell (2004) "Foundations of Economic Analysis of Law, Harvard University Press: Cambridge MA.

#### MAPPING OF COS WITH PSOS:

	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6	PO1	PO2	PO3	PO4	PO5	PO6	PO7
CO 1	3	-	1	-	-	-	1	-	-	ı	ı	ı	ı
CO 2	-	3	1	1	-	1	1	-	3	1	1	ı	1
CO 3	3	3	1	1	-	2	-	-	-	-	2	-	-
CO 4	-	-	-	2	-	-	-	-	-	-	-	-	2
CO 5	3	2	2	3	3	1	-	-	2	-	-	-	-

#### **CORRELATION LEVELS:**

Level	Correlation
-	Nil
1	Slightly / Low
2	Moderate / Medium
3	Substantial / High

#### **ASSESSMENT RUBRICS:**

- 2 Quiz / Assignment/ Viva Voce/ Discussion / Seminar
- Internal Exam
- Practical Assignments (20%)
- Pinal Exam (70%)

	Internal Exam	Quiz / Assignment/ Viva Voce/ Discussion / Seminar	Practical Assignment	End Semester Examination
CO 1	✓	✓		✓
CO 2	✓		✓	✓
CO 3	✓	✓		✓
CO 4	✓	✓		✓
CO 5		✓	✓	

Programme	B.A. Economics Honours									
Course Title	LOCAL LEVEL PLANNING									
Type of Course	Elective	Elective								
Semester	VIII									
Academic Level	400 - 499									
Course Details	Credit	Lecture	Tutorial	Practical	Total					
		per week	per week	per week	Hours					
	4	4	-	-	60					
Pre-requisites	Economics course of	level 200 –	299							
Course Summary	This course explores the importance of Panchayati Raj Institutions, the									
	process of decentralization and the concept of project appraisal as well as									
	the components and t	heories of lo	cal economic	development	•					

# Course Outcomes (CO):

CO	CO Statement	Cognitive Level*	Knowledge Category#	Evaluation Tools used
CO 1	Understand various local government institutions	U	С	Instructor- created exams / Quiz
CO 2	Analyse the role of decentralization process	An	P	Practical Assignment
CO 3	Evaluate various local development models	Ap	F	Seminar Presentation / Group Discussion
CO 4	Apply the theoretical knowledge to current project appraisal of various kinds	Ap	С	Instructor- created exams / Home Assignments
CO 5	Create complete understanding of the local level planning	U	F	Viva

<sup>\* -</sup> Remember (R), Understand (U), Apply (Ap), Analyse (An), Evaluate (E), Create (C)

<sup># -</sup> Factual Knowledge(F) Conceptual Knowledge (C) Procedural Knowledge (P) Metacognitive Knowledge (M)

### **DETAILED SYLLABUS:**

Module	Uni	Content	Hr	Marks
	t		<u>S</u>	24
I	1	Introduction to Panchayati Raj Institutions	12	24
	1	Panchayati Raj Institutions- Evolution of Panchayati Raj Institutions in India	2	
	2	Aims and Objectives of Panchayati Raj Institutions – Functions	3	
	3	Recommendation of various Committee - Balwant Rai Mehta	3	
	3	committee- Ashok Mehta Committee – G V K Rao Committee – L M	3	
		Singhvi Committee		
	4	Features of Panchayati Raj Institutions	2	
	5	The 73 <sup>rd</sup> and 74 <sup>th</sup> Constitutional Amendments	2	
II		The process of Decentralization	9	20
	6	Decentralized Planning in Kerala	2	
	7	How Kerala is Different	1	
	8	History – Evolution – importance of People's plan movement	3	
	9	The role of Kudumbashree	3	
III		The concept of Project Appraisal	12	22
	10	The role of Local Government Agencies (LGAs) in Project Appraisal	2	
		Framework		
	11	Introduction to Project Evaluation	1	
	12	Methods of Project Evaluation – Return on Investment (ROI) – Cost -	5	
		Benefit analysis (CBA) – Net Present Value (NPV) – Internal Rate of		
		Return (IRR) – The Payback Period – Risk Adjusted Discount Rate		
	12	(RADR) Steps to conduct a project evaluation	2	
	13	challenges in Project monitoring and evaluation	2	
IV	14	The Local and regional Development	15	32
1.4	15	Introduction: Local and Regional Development	13	32
	16	what kind of local and regional development and for whom?	2	
	17	Concepts and theories of local and regional development	2	
	18	Traditional model	2	
	19	Pure agglomeration Model	$\frac{2}{2}$	
	20	Local community model	2	
	21	Territorial innovation model	2	
	22	Sustainable Development Model	2	
V		Project Evaluation	12	
,		<b>Discussion</b> based on different methods of prevailing project evaluation		
		Practical Assignments to visit the local level institutions to conduct		
		the project evaluation		
		Seminar on the presenting the relevance of best project evaluation		
		methods		

## REFERENCE:

- 1. Isaac, T. T., & Franke, R. W. (2002). Local democracy and development: The Kerala people's campaign for decentralized planning. Rowman & Littlefield. (Module 1 and Module 2)
- 2. Goel, S. L., & Shalini, R. (2003). Panchayati Raj in India: theory and practice. Deep and Deep

- Publica- tions Pvt. Ltd. (Module 2)
- 3. Harberger, A. C., & Harberger, A. C. (1972). *Techniques of project appraisal* (pp. 1-21). Palgrave Macmillan UK. (**Module 3**)
- 4. Pike, A., Rodríguez-Pose, A., & Tomaney, J. (2016). *Local and regional development*. Routledge. (**Module 4**)
- 5. Kačar, B., Curić, J., & Ikić, S. (2016). Local economic development in theories of regional economies and rural studies. *Економика пољопривреде*, *63*(1), 231-246 (**Module 4**)

### MAPPING OF COS WITH PSOS:

	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6	PO1	PO2	PO3	PO4	PO5	PO6	PO7
CO 1	3	-	1	-	1	-	1	-	-	ı	ı	-	1
CO 2	-	3	1	1	1	1	1	-	3	1	1	1	1
CO 3	3	3	1	1	-	2	-	1	-	-	2	-	-
CO 4	-	-	1	2	1	_	1	-	-	1	1	-	2
CO 5	3	2	2	3	3	1	-	-	2	-	-	-	-

#### **CORRELATION LEVELS:**

Level	Correlation
-	Nil
1	Slightly / Low
2	Moderate / Medium
3	Substantial / High

### **ASSESSMENT RUBRICS:**

- 2 Quiz / Assignment/ Viva Voce/ Discussion / Seminar
- Internal Exam
- Practical Assignments (20%)
- Final Exam (70%)

	Internal Exam	Quiz / Assignment/ Viva Voce/ Discussion / Seminar	Practical Assignment	End Semester Examination
CO 1	<b>\</b>	<b>✓</b>		<b>\</b>
CO 2	<b>✓</b>		<b>√</b>	<b>✓</b>
CO 3	<b>√</b>	<b>✓</b>		<b>√</b>
CO 4	✓	✓	[	√
CO 5		√	✓	

Programme	B.A. Economics Honours									
Course Title	FINANCE AND TE	FINANCE AND TECHNOLOGY								
Type of Course	Elective	Elective								
Semester	VIII									
Academic Level	400 – 499	400 – 499								
Course Details	Credit	Lecture	Tutorial	Practical	Total					
		per week	per week	per week	Hours					
	4	4	-	1	60					
Course Summary	This course introduces fundamental building blocks of financial									
	technologies and real	-world applic	cations.							

CO	CO Statement	Cognitive Level*	Knowledge Category#	Evaluation Tools used
CO 1	Understand the students with the Finance and technological sector	U	С	Instructor-created exams / Quiz
CO 2	Understand how new technologies are transforming the financial services industry.	U	С	Practical Assignment
CO 3	Understand the fundamental differences between the traditional and modern financial sectors, focusing on the impact of innovation and technology on business models, products, applications, and customer interfaces.	Ŭ	F	Seminar Presentation / Group Discussion
CO 4	Apply machine learning, deep learning, blockchain, and open APIs within the financial technology industry.	Ap	С	Instructor-created exams / Home Assignments
CO 5	Understand case study-oriented learning experiences for students, focusing on various sectors of financial technology.	U	С	Viva

<sup>\* -</sup> Remember (R), Understand (U), Apply (Ap), Analyse (An), Evaluate (E), Create (C) # - Factual Knowledge(F) Conceptual Knowledge (C) Procedural Knowledge (P) Metacognitive Knowledge (M)

### **DETAILED SYLLABUS:**

Modul	Unit	Content	Hrs	Marks
e			44	4=
Ι		Introduction	11	17
	1	Finance and technology	1	
	2	Finance sector	2	
	3	Innovation in Finance	1	
	4	Disruption in Finance	4	
	5	Introduction to the Finance and technology's landscape	2	
**	6	Application of Finance and technology	1	4.
II		FinTech Architecture and FinTech Technologies	11	17
	7	Overview of FinTech architecture.	2	
	8	Importance of Finance and Technological architecture	2	
	9	Features of Finance and Technological architecture	2	
	10	Introduction to Block chain integration in FinTech	2	
	11	Merits and Demerits of Block chain in Fin Tech	1	
	12	Introduction to Open Application Programming Interfaces (APIs).	1	
	13	Exploring the applications of AI and ML in finance	1	
III		India's Fintech Sector	11	26
	14	Overview of various fintech sectors in India	1	
	15	The regulatory framework for fintech in India	1	
	16	Regulatory compliance issues in the Indian fintech space	5	
	17	Trends in FinTech and the Fintech landscape in India	2	
	18	Examining key players, institutions, innovations, and challenges.	2	
IV		India's Fintech Sector - Case studies	15	38
	19	Real Time Payments and Neo Banking	5	
	20	Wealth technology and Insurance technology	4	
	21	Lending and Blockchain	1	
	22	The impact of Fintech on the Financial Inclusion and broader	5	
		economy		
V		Technologies in the fintech sector.	12	
	1	To take up case studies with respect to the various sectors of Fintech in India		
	2	Describe the role of different technologies in the fintech sector.		

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- 2. Atlantic Singh, Jaspal. 2022. Financial Technology (FinTech) and Digital Banking in India Hardcover 1 November.
- 3. Chishti, S., & Barberis, J. (2016). The Fintech book: The financial technology handbook for investors, entrepreneurs and visionaries. John Wiley & Sons.
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- 2. Mordor Intelligence. India Fintech report. Available at <a href="https://www.mordorintelligence.com/industry-reports/india-fintech-market">https://www.mordorintelligence.com/industry-reports/india-fintech-market</a>
- 3. <a href="https://www.ey.com/en\_in/financial-services/how-is-the-fintech-sector-in-india-poised-forexponential-growth">https://www.ey.com/en\_in/financial-services/how-is-the-fintech-sector-in-india-poised-forexponential-growth</a>
- 4. https://www.pwc.in/industries/financial-services/fintech.html
- 5. <a href="https://rbsa.in/wp-content/uploads/reports/research-reports/RBSA-Advisors-PresentsFinTech-Industry-in-India-February2021.pdf">https://rbsa.in/wp-content/uploads/reports/research-reports/RBSA-Advisors-PresentsFinTech-Industry-in-India-February2021.pdf</a>

#### MAPPING OF COS WITH PSOS:

	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6	PO1	PO2	PO3	PO4	PO5	PO6	PO7
CO 1	3	-	-	-	4	-	1	-	-	-	ı	-	1
CO 2	-	3	-	2	-	-	1	-	3	-	ı	-	1
CO 3		2	-	2	-		1	-	-	-	2	-	1
CO 4	-	3	2	3	-	2	-	-	-	-	-	-	2
CO 5	3	-	-	-	-	2	-	-	2	-	-	-	-

### **CORRELATION LEVELS:**

Level	Correlation
-	Nil
1	Slightly / Low
2	Moderate / Medium
3	Substantial / High

## **ASSESSMENT RUBRICS:**

- 2 Quiz / Assignment/ Viva Voce/ Discussion / Seminar
- Internal Exam
- Practical Assignments (20%)
- Final Exam (70%)

	Internal Exam	Quiz / Assignment/ Viva Voce/ Discussion / Seminar	Practical Assignment	End Semester Examination
CO 1	<b>√</b>	✓		<b>√</b>
CO 2	√	✓	✓	✓
CO 3	√	✓	√	✓
CO 4	√	✓	√	✓
CO 5	✓	✓	✓	

Minor Courses in Economics

Programme	B.A. Economics Honours								
Course Title	FISCAL TOOLS FO	FISCAL TOOLS FOR POLICY FORMULATION							
Type of Course	Minor								
Semester	I								
Course Details	Credit	Credit Lecture Tutorial Practical Total							
		per week	per week	per week	Hours				
	4	4	1	-	60				
Pre-requisites	Basic Economics Course of 0 – 99 level								
Course Summary	This course explores important Concepts and Instruments of Fiscal								
	policy.								

CO	CO Statement	Cognitiv	Knowledg	Evaluation
		e	e	Tools used
		Level*	Category#	
CO 1	Understand the Concept of Fiscal	U	С	Instructor-
	Policy			created exams /
	•			Quiz
CO 2	Identify Different tools of Fiscal	R	F	Created exams /
	policy			Quiz
CO 3	Create comprehensive analysis of	An	P	Seminar
	Public Expenditure and its Various			Presentation /
	theories.			Group
				Discussion
CO 4	Identify different Sources of	R	F	Instructor-
	Public revenue			created exams /
				Home
				Assignments
CO 5	Compare Public debt and Private	E	M	Writing
	dept			assignments

<sup>\* -</sup> Remember (R), Understand (U), Apply (Ap), Analyse (An), Evaluate (E), Create (C)

<sup># -</sup> Factual Knowledge(F) Conceptual Knowledge (C) Procedural Knowledge (P) Metacognitive Knowledge (M) ,

### DETAILED SYLLABUS:

Module	Unit	Content	Hrs	Marks
I	Fiscal	Policy and Instruments of Fiscal Policy	9	24
	1	Meaning of Fiscal Policy-Traditional View, Modern view	1	
		and Keynes' view on Fiscal Policy		
	2	Objectives of Fiscal policy in developing economies	2	
	3	Major fiscal functions	4	
	4	Instruments of Fiscal Policy	2	
II	Public	c Expenditure	7	18
	5	Meaning and types of Public Expenditure	2	
	6	Role of Public Expenditure	1	
	7	Canons Of Public Expenditure	2	
	8	Adolph Wagner Hypothesis, Peacock wiseman	2	
		Hypothesis		
III	Public	c Revenue	16	28
	9	Meaning and Sources of Public Revenue.	4	
	10	Concept of Proportional, Progressive, Regressive	2	
		Taxation		
	11	Principles of Taxation	2	
	12	requirements of a Good Tax System	2	
	13	Taxable Capacity	4	
	14	Impact, incidence and Shifting of Taxation (Concepts	2	
		only)		
IV	Public	c Debt & Budget	16	28
	15	Meaning and Objectives of Public Debt	2	
	16	Importance of Public Debt	1	
	17	Difference between Public Debt and Private Debt	1	
	18	Classification of Public Debt	3	
	19	Burden of Public Debt	2	
	20	Concept and Purpose of Budget	2	
	21	Classification of Budget	2	
	22	Performance and Programme Budgeting System	3	
		(PPBS), Zero Based Budgeting	-	
V	Public	finance: Trend Analysis	12	
		Recent trends in Kerala's expenditure and Public debt		

#### REFERENCE:

- 1. R.K LEKHI(2011)Public Finance,18th Edition(Module 1-4, Except unit3 in the Module 1)
- 2. Dr.S.K SINGH {2014)Public Finance in Theory and Practice Ninth Edition. (3<sup>rd</sup> unit in Module 1)

#### ADDITIONAL READINGS

- 1. Dr. S.K SINGH (2014) Public Finance in Theory and Practice Ninth Edition.
- 2. RICHARD.A. MUSGRAVE and PEGGY B MUSGRAVE (2004) Public Finance in Theory and Practice, Fifth Edition
- 3. H.L Bhatia (2012) Public Finance, 27 th Edition.
- 4. B.P Tyagi, Public Finance (2014)
- 5. T.N. Hajela, Public Finance 3<sup>rd</sup> Edition.
- 6. John Cullis&Philip Jones, Public Finance Public Choice, Analytical Perspectives, 3rd Edition.
- 7. Ambar Ghosh & Chandra Ghosh, Public Finance, 3<sup>rd</sup> Edition.
- 8. Rabindra Kr. Choudhury & Reema Choudhury Chakraborty, Public Finance and Fiscal Policy

### MAPPING OF COS WITH PSOS:

	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6	PO1	PO2	PO3	PO4	PO5	PO6	PO7
CO 1	3	-	ı	ı	ı	-	3	-	-	1	1	-	-
CO 2	3	-	1	1	1	-	ı	-	3	ı	ı	-	-
CO 3	3	-	1	1	1	-	ı	-	-	ı	2	-	-
CO 4	3	1	-	-	-	-	-	-	-	-	-	-	1
CO 5	1	-	-	-	-	-	3	-	-	-	-	-	-

#### **CORRELATION LEVELS:**

Level	Correlation			
-	Nil			
1	Slightly / Low			
2	Moderate / Medium			
3	Substantial / High			

# **ASSESSMENT RUBRICS:**

- Quiz / Assignment/ Viva Voce/ Discussion / Seminar
- Internal Exam
- Practical Assignments (20%)
- Final Exam (70%)

	Internal Exam	Quiz / Assignment/ Viva Voce/ Discussion / Seminar	Practical Assignment	End Semester Examination
CO 1	<b>√</b>	<b>✓</b>		<b>√</b>
CO 2	✓	✓		✓
CO 3	✓	✓		✓
CO 4	√	✓		✓
CO 5	✓	✓		✓
CO 6	√	✓		✓

Programme	B.A. Economics Honours									
Course Title	FISCAL POLICY AND STABILIZATION									
Type of Course	Minor	Minor								
Semester	II	II								
Course Details	Credit	Lecture	Tutorial	Practical	Total					
		per week	per week	per week	Hours					
	4	4	-	-	60					
Course Summary	This course explores basic approaches, determinants of Fiscal policy and									
	their role for Econom	ic Growth ar	nd Stability.							

СО	CO Statement	Cognitiv e Level*	Knowledge Category#	Evaluation Tools used
CO 1	Understand different approaches of fiscal Policy	U	С	Instructor-created exams / Quiz
CO 2	Analyze the role of fiscal policy for full employment	An	P	Created Exams/ Quiz
CO 3	Identify the various determinants of fiscal policy for maintaining Economic Growth and stability	R	F	Created Exams, Seminar Presentation / Group Discussion
CO 4	Analyse the role of Multiplier in determination of Fiscal Policy.	An	p	Instructor-created exams / Home Assignments
CO 5	Identify the Key issues in fiscal federalism	U	F	Created Exams, Group discussion.
CO 6	Explain the role and functions of finance Commission.	An	М	Created exams, Viva Voce

### DETAILED SYLLABUS:

Modul	Unit	Content	Hr	Marks
e			S	
I		Approaches of Fiscal Policy	11	18
	1	Built In-Stabilisers or Automatic Stabiliser	3	
	2 Compensatory Fiscal Policy		4	
	3	Functional Finance Approach	2	
	4	Anti-Inflationary Fiscal policy	2	
II		Fiscal Policy for Full Employment	10	24
	5	Role of Fiscal Policy for attaining full employment.	3	

<sup>\* -</sup> Remember (R), Understand (U), Apply (Ap), Analyse (An), Evaluate (E), Create (C) # - Factual Knowledge(F) Conceptual Knowledge (C) Procedural Knowledge (P) Metacognitive Knowledge (M),

	6	Deficit Spending	2				
	7	Deficit without Spending	2				
	8	Balanced Budget Multiplier (Spending without Deficit).	3				
III		Fiscal policy For Economic Growth	8	28			
	9	Interdependence between Fiscal policy and Economic Growth	3				
	10	Promotion of Investment	1				
	11	Promotion of saving	1				
	12	Role of Multiplier in Determination of Fiscal Policy	3				
IV		Fiscal Federalism	19	28			
	13	Concept of Federalism,	1				
	14	Key issues in Fiscal federalism	2				
	15	Advantages and Disadvantages of a Federal Form of Government	3				
	16	Economic aspects of Fiscal Federalism	2				
	17	Allocation of Revenue Resources between Centre and States Under the Constitution(Financial relations)	2				
	18	Vertical and Horizontal Fiscal imbalances	1				
	19	Concept and Role of Finance Commission .,	1				
	20	Powers and Functions of Finance commission	3				
	21	Major recommendations of Finance Commissions	3				
	22	Latest finance Commission	1				
V		Fiscal Policies in UDCs	12				
		Seminar Presentation of limitations of fiscal policy in UDCs					
	Assignments based on seminar Presentation						

#### REFERENCE:

- 1. R.K LEKHI(2011)Public Finance,18th Edition(Module1,2,3)
- 2. Dr.S.K SINGH {2014)Public Finance in Theory and Practice Ninth Edition (Module 4)

#### **ADDITIONAL READINGS**

- 1. Dr.S.K SINGH (2014)Public Finance in Theory and Practice Ninth Edition.
- 2. RICHARD.A. MUSGRAVE and PEGGY B MUSGRAVE (2004) Public Finance in Theory and Practice, Fifth Edition
- 3. H.L Bhatia (2012) Public Finance, 27 th Edition
- 4. B.P Tyagi, Public Finance (2014)
- 5. T.N. Hajela, Public Finance 3<sup>rd</sup> Edition.
- 6. John Cullis&Philip Jones, Public Finance Public Choice, Analytical Perspectives,3<sup>rd</sup> Edition.
- 7. Ambar Ghosh & Chandra Ghosh, Public Finance, 3<sup>rd</sup> Edition.
- 8. Rabindra Kr. Choudhury & Reema Choudhury Chakraborty, Public Finance and Fiscal Policy

# MAPPING OF COS WITH PSOS:

	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6	PO1	PO2	PO3	PO4	PO5	PO6	PO7
CO 1	3	-	1	-	1	-	3	-	ı	1	ı	ı	ı
CO 2	-	3	1	1	1	-	1	-	3	ı	ı	ı	ı
CO 3	3	-	-	-	-	-	-	-	-	-	-	-	2
CO 4	-	3	-	1	-	-	-	-	-	-	2	-	-
CO 5	3	3	-	1	-	-	-	-	3	-	-	-	-

# **CORRELATION LEVELS:**

Level	Correlation			
-	Nil			
1	Slightly / Low			
2	Moderate / Medium			
3	Substantial / High			

# **ASSESSMENT RUBRICS**

- Quiz / Assignment/ Viva Voce/ Discussion / Seminar
- Internal Exam
- Practical Assignments (20%)
- Final Exam (70%)

	Internal Exam	Quiz / Assignment/ Viva Voce/ Discussion / Seminar	Practical Assignment	End Semester Examination
CO 1	✓	✓		✓
CO 2	√	✓		✓
CO 3	√	✓		✓
CO 4	✓	✓		✓
CO 5	✓	<b>√</b>		✓
CO 6	<b>√</b>	<b>√</b>		✓

Programme	B.A. Economics Honours							
Course Title	TAX POLICY IN INDIA							
Type of Course	Minor							
Semester	III							
Academic Level	200 – 299							
Course Details	Credit	Lecture	Tutorial	Practical	Total			
		per week	per week	per week	Hours			
	4	4	-	-	60			
Pre-requisites	Economics course of 100 - 199							
Course Summary	This course provides an overview of taxation system in India and							
	utilization of taxation	for policy p	urposes					

CO	CO Statement	Cognitive Level*	Knowledge Category#	Evaluation Tools used
CO 1	Understand the basic nature of the Indian tax system	U	C	Instructor-created exams / Quiz
CO 2	Analyze the different tax strategies in the Indian Economy	An	Р	Practical Assignment
CO 3	Evaluate the efficiency of the Indian tax structure	Ap	F	Seminar Presentation / Group Discussion
CO 4	Apply the knowledge for tax computation	Ap	С	Instructor-created exams / Home Assignments
CO 5	Create basic skills for an amateur tax practitioner	C	P	Viva

<sup>\* -</sup> Remember (R), Understand (U), Apply (Ap), Analyse (An), Evaluate (E), Create (C)

# DETAILED SYLLABUS:

Modul	Uni	Content	Hrs	Marks
e	t			
I		Introduction	10	18
	1	History of Tax System in India	2	
	2	Objectives of Indian Tax System	2	
	3	Direct Taxes & Indirect Taxes	3	
	4	Union Taxes and State Taxes, Local Taxes	3	
II		Direct Taxes in India	12	24
	5	Income Tax Act 1961	2	
	6	Computation Of Income Tax in India-	2	

<sup># -</sup> Factual Knowledge(F) Conceptual Knowledge (C) Procedural Knowledge (P) Metacognitive Knowledge (M)

	7	Recent Changes in Income Tax Calculation in India	2	
	8	Corporate Tax	3	
	9	Capital Gain Tax	3	
III		Indirect Taxes In India	12	28
	10	Excise Duty	3	
	11	Service Tax	2	
	12	Sales Tax	2	
	13	Customs Duty	3	
	14	Value Added Tax	1	
	15	Issues Of Indirect Taxation System In India	1	
IV		Goods And Service Tax in India	14	28
	16	GST – Definition and Concepts	2	
	17	Supply-Composite and Mixed	2	
	18	Concept Of Interstate and Intrastate	2	
	19	Exemptions From GST	3	
	20	Advantages And Disadvantages of GST	2	
	21	GST Calculation - Basics	2	
	22	Fiscal Federalism and GST	1	
V		Tax Computation	12	
		Computation of Taxes- Income Tax, GST		

#### REFERENCE:

- 1. M Govinda Rao:Changing Countours Of Federal Fiscal Arrangements In India, Amaresh Bagchi(Ed) Readings In Public Finance:Oxford University Press 2005
- 2. Mahesh Purohit: Value Added Tax: Experiences In India And Other Countries: 2

### **ADDITIONAL READINGS**

- 1. Goods And Service Tax In Indai: C A Pritham Mahire, Sulthan Chand Publications 2017
- 2. Singhania, Vinod K And Monica Singhania: Students Guide To Income Tax: University Edition, Taxman Publications Private Limited New Delhi

### MAPPING OF COS WITH PSOS:

	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6	PO1	PO2	PO3	PO4	PO5	PO6	PO7
CO 1	3	-	ı	-	2	-	3	ı	-	ı	-	-	ı
CO 2	-	-	-	2	-	2	-	-	3	-	-	-	-
CO 3	-	-	-	2	-	2	-	-	-	-	2	1	-
CO 4	-	2	-	-	-	3	-	-	-	-	2	1	-
CO 5	-	-	2	_	-	2	-	-	_	-	-	-	2

### **CORRELATION LEVELS:**

Level	Correlation
- Nil	
1	Slightly / Low
2	Moderate / Medium
3	Substantial / High

# **ASSESSMENT RUBRICS:**

- 2 Quiz / Assignment/ Viva Voce/ Discussion / Seminar
- Internal Exam
- Practical Assignments (20%)
- Final Exam (70%)

	Internal Exam	Quiz / Assignment/ Viva Voce/ Discussion / Seminar	Practical Assignment	End Semester Examination
CO 1	<b>√</b>	<b>✓</b>		✓
CO 2	<b>√</b>			✓
CO 3	<b>√</b>	✓		✓
CO 4	✓	✓	✓	✓
CO 5	✓	✓	✓	

Programme	B.A. Economics Hor	B.A. Economics Honours						
Course Title	MONETARY TOOLS FOR POLICY FORMULATION							
Type of Course	Minor							
Semester	I	I						
Academic Level	100 – 199							
Course Details	Credit	Lecture	Tutorial	Practical	Total			
		per week	per week	per week	Hours			
	4	4	-	-	60			
Pre-requisites	Basic Economics							
Course Summary	This course explores the concept of monetary policy, the role of monetary							
	authorities, and to evaluate various tools of monetary policy and its							
	formulation.							

CO	CO Statement	Cognitive Level*	Knowledge Category#	Evaluation Tools used
CO 1	Understand the concept of monetary policy	U	C	Instructor- created exams / Quiz
CO 2	Analyse the role of monetary authorities to stabilise the economy	Ap	Р	Practical Assignment / Observation of Practical Skills
CO 3	Evaluate various tools of monetary policy instruments	U	Р	Seminar Presentation / Group Discussion
CO 4	Apply the formulation of monetary policy.	Ap	С	Instructor- created exams / Home Assignments
CO 5	Create complete understanding of the current scenario within the framework of Monetary policy formulation	U	F	Assignment/ Viva Voce

<sup>\* -</sup> Remember (R), Understand (U), Apply (Ap), Analyse (An), Evaluate (E), Create (C)

Metacognitive Knowledge (M)

 $<sup>\#\ -\</sup> Factual\ Knowledge(F)\ Conceptual\ Knowledge\ (C)\ Procedural\ Knowledge\ (P)$ 

# DETAILED SYLLABUS:

Module	Uni	Content	Hr	Marks
I	t	Introduction	14	28
1	1	Introduction  Introduction to Monetary Policy – Meaning and definition of Monetary	2	20
	1	Policy	2	
	2	Objectives of Monetary Policy	2	-
	3	The transmission Mechanism- How Monetary policy influences	3	
	4	Aggregate Demand Theory of liquidity preference	2	
	5	The downward slope of the Aggregate Demand Curve –	2	
	6	Changes in the money supply	$\frac{2}{2}$	
	7	Changes in the interest rate	1	1
II	,	Economic Stabilisation – Monetary Policy	15	32
	8	Tools of Monetary Policy	1	
	9	open market operation	1	
	10	changing the bank rate	1	
	11	changing the cash reserve ratio	1	
	12	selective credit controls	2	
	13	Expansionary monetary policy to cure recession or depression	2	
	14	How expansionary Monetary Policy works: Keynesian view	3	
	15	Tight monetary policy to control inflation	2	
	16	How the Tight Monetary Policy works: Keynesian view	2	
III		Monetary Policy – Monetarist View	8	16
	17	Sources of Monetary Mismanagement – variable time lags, interest rate	4	
	18	as a wrong target variable  Monetary Rule:	2	
	19	Monetary Policy Prescription	2	1
IV	17	Pre-requisites for Effective Monetary Transmission	11	22
	20	Challenges of Effective Monetary Policy in Emerging Economies	5	1
	21	Monetary Transmission in Developing Countries:	4	=
	22	Evidence from India	2	
V		Monetary Policy Regimes	12	
		Discussion based on different economic stabilisation policies across countries		
		Seminar on presenting the comparative analysis of monetary policy regimes of various countries		

### REFERENCE:

1. Mankiw, N. G. (2007). *Principles of Macro Economics*, 4TH EDITION, Cengage Learning. (Module 1)

- 2. Ahuja, H. L. (2022). *Principles of Macroeconomics*. S. Chand Publishing.(Module 2 and Module 3)
- 3. Ghate, C., & Kletzer, K. M. (Eds.). (2016). *Monetary policy in India: A modern macroeconomic perspective*. Springer. (Module 4)

### MAPPING OF COS WITH PSOS:

	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6	PO1	PO2	PO3	PO4	PO5	PO6	PO7
CO 1	3	-	-	-	-	-	1	-	-	1	-	-	1
CO 2	-	3	-	1	1	2	ı	-	3	ı	ı	2	ı
CO 3	-	3	1	3	-	3	1	1	-	1	2	-	1
CO 4	-	-	2	2	-	2	-	-	-	-	-	-	2
CO 5	-	2	1	-	1	-	-	-	2	-	-	-	-

#### **CORRELATION LEVELS:**

Level	Correlation
-	Nil
1	Slightly / Low
2	Moderate / Medium
3	Substantial / High

### **ASSESSMENT RUBRICS:**

- 2 Quiz / Assignment/ Viva Voce/ Discussion / Seminar
- Internal Exam
- Practical Assignments (20%)
- Pinal Exam (70%)

	Internal Exam	Quiz / Assignment/ Viva Voce/ Discussion / Seminar	Practical Assignment	End Semester Examination
CO 1	<b>√</b>	✓		✓
CO 2	<b>√</b>			✓

CO 3	<b>√</b>	✓		<b>√</b>
CO 4	<b>√</b>	✓		<b>√</b>
CO 5		√	✓	

Programme	B.A. Economics Honours
Course Title	MONETARY POLICY AND STABILIZATION
Type of Course	Minor

Semester	II									
Academic Level	100 - 199									
Course Details	Credit	Lecture per week	Tutorial per week	Practical per week	Total Hours					
	4	4	-	-	60					
Pre-requisites	Basic Economics	Basic Economics								
Course Summary	This course provides in stabilization with examines the tools, and its effectiveness also explores the macroeconomic variety economic growth.	hin the fran objectives, and in achieving relationship	nework of memory of macroecond between mo	nacroeconomic tation of monomic stability onetary policy	c theory. It etary policy, . The course y and other					

СО	CO Statement	Cognitive Level*	Knowledge Category#	Evaluation Tools used
CO 1	Understand the concept and objectives of monetary policy	U	С	Instructor-created exams / Quiz
CO 2	Analyze the tools and mechanisms of monetary policy implementation	An	F	Practical Assignment
CO 3	Evaluate the effectiveness of monetary policy in stabilizing the economy.	Ap	F	Seminar Presentation / Group Discussion
CO 4	Apply theoretical concepts to real-world monetary policy issues and challenges	Ap	P	Seminar Presentation / Group Discussion
CO 5	Critically assess the role of central banks in formulating and implementing monetary policy	An	F	Viva

<sup>\* -</sup> Remember (R), Understand (U), Apply (Ap), Analyse (An), Evaluate (E), Create (C) # - Factual Knowledge(F) Conceptual Knowledge (C) Procedural Knowledge (P) Metacognitive Knowledge (M)

Module	Unit	Content	Hrs	Marks
		Introduction to Monetary policy	10	
	1	Definition and objectives of monetary policy	2	
I	2	Exchange stabilization Vs price stabilization	3	24
	3	Historical Perspective	2	
	4	Role of Central Banks	3	
		Tools of Monetary policy	10	
	5	Open Market Operations	2	
II	6	Variations in Reserve Requirements	2	24
	7	Statutory liquidity ratio	2	
	8	Moral suasion	2	
	9	Selective credit controls	2	
		Fluctuations in price level	18	
	10	Inflation-types and causes	4	
	11	Demand pull inflation and test to indicate its presence	3	
	12	Cost push inflation and test to indicate its presence	3	
III	13	Inflationary gap	1	34
	14	Factors affecting increase and decrease in money income	2	
	15	Measures to control inflation and deflation	2	
	16	Stagflation	1	
	17	Phillips curve	2	
		Monetary Policy Implementation	10	
	18	Transmission Mechanisms	2	
IV	19	Role of Central Bank Independence	1	16
1 V	20	Monetary process and stabilization policy	2	10
	21	Lags in monetary policy	2	_
	22	Measurement of monetary lags and comparison to fiscal policy lags	3	
		Monetary Policy in Action	12	
		Discussion on goals of economic stabilisation		
$\mathbf{v}$		Practical Assignments to study about the monetary policy and		
*		macroeconomic stabilization		
		Seminar to present the student's understanding of monetary		]
		policy using a particular economy's experience.		

1. Gyanwaly, R.P. (2014), A Survey on Theories of Inflation: Classical to New Political Macroeconomics. Kathmandu: Sunlight Publication.

### **ADDITIONAL READINGS**

- 1. Gupta, G.S. (2008), Macroeconomics: Theory and Applications (3rd ed.). New Delhi: McGraw Hill Publishing Company Ltd.
- 2. Froyen, R.T. (2003), Macroeconomics: Theories and Politics, (7th ed.). New Delhi: Pearson Education.
- 3. Clower, R.W. (1973), Monetary Theory. England: Penguine.

#### MAPPING OF COS WITH PSOS:

	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6	PO1	PO2	PO3	PO4	PO5	PO6	PO7
CO 1	3	-	ı	ı	ı	-	1	-	-	1	1	-	1
CO 2	-	3	-	1	-	1	-	-	3	-	-	-	-
CO 3	-	2	-	3	-	2	-	-	-	-	2	-	-
CO 4	-	3	1	3	2	-	1	-	-	1	1	-	2
CO 5	3	-	_	_	3	1	1	-	2	-	_	-	-

### **CORRELATION LEVELS:**

Level	Correlation
-	Nil
1	Slightly / Low
2	Moderate / Medium
3	Substantial / High

#### **ASSESSMENT RUBRICS:**

- Quiz / Assignment/ Viva Voce/ Discussion / Seminar
- Internal Exam
- Practical Assignments (20%)
- Final Exam (70%)

	Internal Exam	Quiz / Assignment/ Viva Voce/ Discussion / Seminar	Practical Assignment	End Semester Examination
CO 1	<b>√</b>	<b>/</b>		<b>√</b>

CO 2	✓			✓
CO 3	✓	<b>√</b>		✓
CO 4	✓	✓	✓	✓
CO 5	✓	✓	✓	✓
CO6	✓	✓	✓	

Programme	B.A. Economics Honours
Course Title	MONETARY POLICY IN INDIA

Type of Course	Minor									
Semester	III									
Academic Level	200 – 299	200 – 299								
Course Details	Credit	Lecture	Tutorial	Practical	Total					
	Cieuit	per week	per week   per week		Hours					
	4 4 (									
Pre-requisites	Basic Economics									
	This course explores	the role of	central banl	k in an econo	omy and the					
Course Summary	effectiveness of monetary policy in achieving economic stability and									
	growth									

CO	CO Statement	Cognitive Level*	Knowledge Category#	Evaluation Tools used
CO 1	Understand the objectives, tools, and framework of monetary policy in India.	U	С	Instructor-created exams / Quiz
CO 2	Analyse effectiveness of Indian monetary policy in achieving macroeconomic stability and economic growth	An	F	Practical Assignment
CO 3	Explain the role of the Reserve Bank of India in regulating the financial system and managing currency circulation	Ap	F	Seminar Presentation / Group Discussion
CO 4	Assess the impact of Indian monetary policy on key macroeconomic variables such as inflation, output, exchange rates, and interest rates	Ар	P	Seminar Presentation / Group Discussion
CO 5	Evaluate the current issues faced by Indian monetary authorities in formulating and implementing monetary policy decisions.	An	F	Viva

<sup>\* -</sup> Remember (R), Understand (U), Apply (Ap), Analyse (An), Evaluate (E), Create (C) # - Factual Knowledge(F) Conceptual Knowledge (C) Procedural Knowledge (P) Metacognitive Knowledge (M)

Modul e	Unit	Content	Hrs	Marks	
I		Central Banking and Monetary Policy	12	25	
	1	Money supply	1		
	2	Background and objectives of monetary policy	2		
	3	Types of monetary policy	2		
	4	Monetary management in an open economy	2		
	5	Impact of monetary policy on macroeconomic variables	3		
	6	Limitations of monetary policy	2		
II		<b>Changing Role and Need of Central Banking</b>	12	25	
	7	Origin and evolution of central banking	3		
	8	Role of the central bank in India	2		
	9	Need and rationale of a central bank	2		
	10	Autonomy of central banks	3		
	11	Changing contours of the autonomy of the central bank in India	2		
III		Functions and Regulations of Reserve Bank of India			
	12	Functions of the RBI	3		
	13	Recent developments in currency management	2		
	14	Inflation targeting	2		
	15	Demonetization of currency in India	1		
	16	Crypto currencies and Central Bank Digital Currency	2		
	17	New Banking Licensing Policy	2		
IV		RBI's Monetary Policy Committee (MPC)	12	22	
	18	Monetary policy in India during the Pre-MPC Period and formation of the MPC	3		
	19	Purpose, Functions, and Constitution of the MPC	2		
	20	Taylor's rule	2		
	21	The correlation between macroeconomic variables and monetary policy in India	3		
	22	Major Acts related to the RBI	2		
$\mathbf{V}$		Recent trends in RBI's approach	12		
		Discussion on monetary policy of the Reserve Bank of India			
		in the last Five Years	1		
		Practical Assignments on recent policy changes announced by the R.B.I			
		Seminar to present contemporary issues in monetary policy management.			

1. Mishkin, F., Eakins, S. (2017). Financial markets and institutions, 8th ed. Pearson.

### **ADDITIONAL READINGS**

- 1. Hajela, T.N., (2009) Money and Banking, Ane Books Pvt Ltd., New Delhi.
- 2. Sundharam KPM, Banking: Theory, Law and Practice, Sultan Chand and Sons, New Delhi (recent edition)
- 3. Khan, M. (2015). Indian financial system, 9th ed. Tata McGraw-Hill.

### MAPPING OF COS WITH PSOS:

	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6	PO1	PO2	PO3	PO4	PO5	PO6	PO7
CO 1	3	-	1	-	1	-	1	-	-	ı	ı	ı	ı
CO 2	-	3	1	1	1	-	ı	-	3	ı	ı	ı	ı
CO 3	_	2	1	1	-	-	-	-	-	-	2	-	-
CO 4	-	1	-	2	-	2	-	-	-	-	-	1	2
CO 5	3	2	1	3	3	2	-	-	2	-	-	-	-

#### **CORRELATION LEVELS:**

Level	Correlation
-	Nil
1	Slightly / Low
2	Moderate / Medium
3	Substantial / High

#### **ASSESSMENT RUBRICS:**

- 2 Quiz / Assignment/ Viva Voce/ Discussion / Seminar
- Internal Exam
- Practical Assignments (20%)
- Pinal Exam (70%)

	Internal Exam	Quiz / Assignment/ Viva Voce/ Discussion / Seminar	Practical Assignment	End Semester Examination
CO 1	✓	✓		✓

CO 2	<b>√</b>			<b>√</b>
CO 3	<b>√</b>	✓		✓
CO 4	✓	✓	✓	✓
CO 5	✓	✓	✓	✓
CO6	✓	✓	✓	

Course Title	SECTORAL CON	SECTORAL CONTRIBUTIONS IN INDIAN ECONOMY						
Type of Course	Minor							
Semester	I							
Academic Level	100 - 199							
Course Details	Credit	Lecture	Tutorial	Practical	Total			
		per week	per week	per week	Hours			
	4	4	-	-	60			
Course	This course explor	es important s	ectors in an e	economy, their	r trends, and			
Summar	compositions							
у								

CO	CO Statement	Cognitive	Knowledge	Evaluation
		Level*	Category#	Tools used
CO1	Understand the importance and conrtibutions of primary, secondary, and tertiary sectors in the Indian economy.	U	С	Instructor- created exams / Quiz/Seminar
CO2	Analyze the historical evolution and status of each sector and their contributions to the GDP.	An	Р	Practical Assignment / Observation of Practical Skills/Seminar
CO3	Examine the employment generation and income distribution in each sector.	E	Р	Seminar Presentation / Group Discussion
CO4	Evaluate the challenges and opportunities for each sector in the Indian economy.	Ap	F	Instructor- created exams / Home Assignments/Se minar
* P	Critically assess emerging sectors and hold open-ended discussions on their potential contributions.	Ap	F	Writing assignments/ Seminar Presentatiom

<sup>\* -</sup> Remember (R), Understand (U), Apply (Ap), Analyse (An), Evaluate (E), Create (C) # - Factual Knowledge(F) Conceptual Knowledge (C) Procedural Knowledge (P)

Module	Unit	Content	Hrs	Marks
I		Introduction to different sectors	8	15
	1	Overview of the primary, secondary, and tertiary sectors	3	

<sup># -</sup> Factual Knowledge(F) Conceptual Knowledge (C) Procedural Knowledge (P) Metacognitive Knowledge (M)

	2	Historical perspective of the sectoral composition in the Indian economy	3	
	3	Importance of analysing sectoral contributions for	2	
II		economic planning Performance of Primary Sector	15	32
11	4	Indian agriculture- Role nature and cropping pattern	2	34
	5	Trend in agriculture production and productivity	1	
	6	Land reforms	2	
	7	Agriculture input and green revolution	2	
	8	Agriculture marketing and finance	2	
	9	Agriculture price policy	2	
	10	Agriculture subsidy and food security in India	2	
	11	Problems faced by Indian agriculture	2	
III		Performance of the Industrial sector	15	32
	12	Performance of Industries during Plan period	2	
	13	Some basic industries in India- iron and steel, jute, textile,	2	
		sugar, cement		
	14	Role of small scale and cottage industries- Problems faced	3	
		by cottage industries		
	15	Recent industrial policies	2	
	16	Public sector undertakings – role, performance, and problems	2	
	17	Privatisation and disinvestment programmes in India	2	
	18	Problems faced by Indian industries	2	
IV		Performance of the Service sector	10	19
	19	Growth and contribution of service sector in India	3	
	20	Service sector and employment	2	
	21	Information and communication technology	2	
	22	Foreign trade in services	3	
V		Importance of Emerging Sectors	12	
	1	<b>Discussion</b> based on the new and emerging sectors in the		
		Indian economy		
	2	Assignments on role of different sectors in Kerala		
	3	seminar on contribution of different sectors to National		
	)	income in the last two years		
	4	Critically evaluate the performance of MSMEs		
	5	Debate on sustainability of service Led Growth		
L				

- 1. Uma Kapila, (2018),' Indian Economy: Performance and Policies, 2018-19', Academic Foundation, New Delhi. (**Module 1,2,3&5**)
- 2. Misra, S. K. and V. K. Puri, (2018) 'Indian Economy', Himalaya Publishing House, Mumbai. (Module 1,2,3,4&5)
- 3. Datt, Ruddra and K.P.M, Sundaram, (2017), 'Indian Economy', S. Chand & Company Ltd.,

### New Delhi (**Module 1,2,3,4&5**)

### **ADDITIONAL READINGS**

- 1. Economic Survey of India (1990 onwards)
- 2. Chetan Ghate, The Oxford Handbook of Indian Economy", Oxford University Press
- 3. Chandrasekhar Rao and Mahendra Dev, 2010, Agricultural Price Policy, Farm Profitability and Food Security, EPW, June 26
- 4. Jayati Ghosh (2008) The Indian Economy 1970-2003 pp1027-1045
- 5. Rupa Chanda, 2012, Services Led Growth in New Oxford Companion to Economics
- 6. Jean Dreze and Amartya Sen, 2013, India: An Uncertain Glory, Oxford University Press
- 7. Ashwini Mahajan, Gaurav Datt, (2018) 'Indian Economy', S. Chand and Company, New Delhi.
- 8. Brahmananda, P.R. and V.R. Panchmukhi (Eds.), (2001), 'Development Experience in the Indian Economy: Inter-State Perspectives', Bookwell, New Delhi.
- 9. Gaurav Datt and Ashwani Mahajan, (2016) 'Indian Economy', S Chand Publishing House, New Delhi.

#### MAPPING OF COS WITH PSOS:

	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6	PO1	PO2	PO3	PO4	PO5	PO6	PO7
CO 1	3	2	-	ı	-	-	2	-	-	-	-	-	-
CO 2	-	3	-	2	1	-	2	-	-	-	-	1	1
CO 3	-	3	-	2	2	-	2	2	-	-	2	-	-
CO 4	-	2	-	2	2	3	2	-	-	-	2	1	1
CO 5	_	_	_	_	3	3	2	_	_	1	_	1	2

#### **CORRELATION LEVELS:**

Level	Correlation
-	Nil
1	Slightly / Low
2	Moderate / Medium
3	Substantial / High

# **ASSESSMENT RUBRICS:**

- 2 Quiz / Assignment/ Viva Voce/ Discussion / Seminar
- Internal Exam
- Assignments (20%)
- Final Exam (70%)

	Internal Exam	Quiz / Assignment/ Viva Voce/ Discussion / Seminar	Practical Assignment	End Semester Examination
CO 1	<b>√</b>	✓		✓
CO 2	✓		<b>√</b>	√
CO 3	✓	✓		√
CO 4	✓	✓		√
CO 5	✓	✓	✓	
CO 6		✓	✓	

Programme	B.A. Economics Honours							
Course Title	INDUSTRIAL POL	INDUSTRIAL POLICIES IN INDIA						
Type of Course	MINOR	MINOR						
Semester	II							
Academic Level	100 - 199							
Course Details	Credit	Lecture	Tutorial	Practical	Total			
		per week	per week	per week	Hours			
	4	4	-	-	60			
Course Summary	This course seeks to equip students with the knowledge and skills							
	necessary to contribute thoughtfully to discussions on India's industrial							
	landscape, considerin	g both histor	rical context a	and future pos	sibilities.			

ry# Instructor-
Instructor-
created exams /
Quiz/Assignment
Seminar
Presentation /
Group
Discussion
Instructor-
created exams /
Home
Assignments
Assignments/Se
minar
Viva
Voce/Seminar/A
ssignment

<sup>\* -</sup> Remember (R), Understand (U), Apply (Ap), Analyse (An), Evaluate (E), Create (C)

<sup>#</sup> - Factual Knowledge(F) Conceptual Knowledge (C) Procedural Knowledge (P) Metacognitive Knowledge (M)

<b>Modul</b> e	Unit	Content	Hrs	Marks		
Ι		Industrial Development in India	14	30		
	1	Extent and Pattern of Industrialisation during the British	2			
		Rule				
	2	Industrial Scene at Independence	3			
	3					
	4	New Economic Policy	3			
	5	Trends and Pattern of Industrial Growth	3			
II		Industrial Policies in India	10	19		
	6	Industrial Policy Resolutions;	3			
	7	New industrial policy 1991	3			
	8	LPG	2			
	9	MRTP Act	2			
III		Industries in India	10	19		
	10	Large scale industries in India	2			
	11	Traditional and Modern industries	3			
	12	SSI in India	1			
	13	SSI Performance in the globalisation era	2			
	14	Industrial sickness in India- definition, magnitude and	2			
		causes				
IV		Strategies for Disinvestment and Privatisation	14	30		
	15	Public verses Private Ownership,	2			
	16	Problems of public sector enterprises	2			
	17	Policy towards public sector since 1991	2			
	18	Privatisation, evolution of privatisation policy in India,;	2			
	19	Proceeds from disinvestment and methodologies adopted	2			
	20	FDI	2			
	21	Disinvestment	1			
	22	Divestment	1			
V	Libe	eralisation and Industrial Competitiveness	12			
		<b>Discussion</b> based on the role of liberalization in shaping				
		the industrial landscape				
		<b>Project</b> to encourage creative thinking and the				
		development of innovative solutions to address future				
		challenges in industrial economy				
	1			1		

- 1. Uma Kapila,(2017) Indian Economy Since Independence 28th Edition (Module 1, 3 and 4)
- 2. Ruddar Datt , K, P, M. Sundharam Indian Economy (Module 1 and 3)
- 3. Misra & Puri Indian Economy 25th silver jubilee edition (Module 2, 3 and 4)

## **ADDITIONAL READINGS**

1. Ishwar C Dhingra: The Indian Economy: Environment and Policy, SC Chand & Sons, New Delhi

#### MAPPING OF COS WITH PSOS:

	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6	PO1	PO2	PO3	PO4	PO5	PO6	PO7
CO 1	3	-	-	-	-	-	3	-	-	-	-	1	ı
CO 2	-	-	-	3	2	-	2	-	-	-	1	-	1
CO 3	-	-	-	1	3	-	2	2	1	-	-	-	1
CO 4	-	3	-	-	3	-	2	2	-	-	-	ı	1
CO 5	3	-	-	-	3	-	1	-	-	-	2	-	2

#### **CORRELATION LEVELS:**

Level	Correlation
-	Nil
1	Slightly / Low
2	Moderate / Medium
3	Substantial / High

#### **ASSESSMENT RUBRICS:**

- Quiz / Assignment/ Viva Voce/ Discussion / Seminar
- Internal Exam
- Practical Assignments
- Pinal Exam (70%)

	Internal Exam	Quiz / Assignment/ Viva Voce/ Discussion / Seminar	Practical Assignment	End Semester Examination
CO 1	✓	✓		✓
CO 2	✓		✓	✓
CO 3	✓	<b>√</b>		✓
CO 4	✓	<b>√</b>	✓	✓
CO 5		<b>√</b>	✓	

Programme	B.A. Economics Honours							
Course Title	AGRICULTURAL DEVELOPMENT IN INDIA							
Type of Course	Minor	Minor						
Semester	III							
Academic Level	200 - 299							
Course Details	Credit	Lecture	Tutorial	Practical	Total			
		per week	per week	per week	Hours			
	4	4	-	-	60			
Course Summary	This course explores	the role of ag	riculture in e	conomic deve	lopment, the			
	challenges faced by the agricultural sector in India and the policies and							
	technological change	s influencing	agricultural	growth.				

СО	CO Statement	Cognitiv e Level*	Knowledge Category#	Evaluation Tools used
CO 1	Understand the role of agriculture in Indian economy.	U	С	Instructor-created exams / Quiz
CO 2	Identify the stages of agricultural development.	R	F	Assignment / Observation of analysing Skills
CO 3	Critical Assessment of Productivity Issues	An	Р	Seminar Presentation / Group Discussion
CO 4	Formulate recommendations for agricultural policy interventions and their role in fostering technological change	С	М	Instructor-created exams / Home Assignments
CO 5	Evaluate the determinants of agricultural development in India, considering economic, social, and environmental factors	Е	M	Writing assignments/Semin ar
CO6	Apply economics to assess the role and importance of agriculture policy in the Indian economy	Ap	P	Viva Voce/Assignment/ Seminar Presentation

<sup>\* -</sup> Remember (R), Understand (U), Apply (Ap), Analyse (An), Evaluate (E), Create (C)

<sup># -</sup> Factual Knowledge(F) Conceptual Knowledge (C) Procedural Knowledge (P) Metacognitive Knowledge (M)

Module	Uni	Content	Hrs	Marks
I	t Agricu	Ilture and Economic Development	12	23
	1	2		
	2	Features and progress of agriculture, Linkages between agriculture and other sectors	2	
	3	Three stages of agricultural development	1	
	4	Role of state in different phases of agricultural development	2	
	5	Measures for Agricultural Development	2	
	6	Determinants of Agricultural Development - Technology, Institutional and organization, Capital, Human resources and Natural Resources;	3	
II	A	gricultural Production and Productivity	12	23
	7	Trends in Agricultural Production and Productivity	3	
	8	Causes of Low Agricultural Productivity in India	1	
	9	Measures to increase Productivity	1	
	10	Cropping Pattern in India, Factors determining cropping pattern;	2	
	11	Land Reforms, Tenancy Reforms	2	
	12	Consolidation of Holdings	1	
	13	Land reforms in India and their impact on agrarian structure	2	
III		Technological Change in Agriculture	12	26
	14	Strategy for development of Indian agriculture	2	
	15	Green Revolution	2	
	16	Factors responsible for green Revolution, Benefits of Green Revolution	2	
	17	National agricultural policy	3	
	18	The new economic policy and Indian agriculture	3	
IV		WTO and Indian Agriculture	12	26
	19	WTO and India's trade in Agricultural commodities	3	
	20	Measures taken by India to increase exports of Agricultural commodities	3	

	21	WTO and India's imports of agricultural commodities, Steps taken by India to reduce imports of agricultural commodities	3	
	22	WTO and Agricultural Pricing Policy in India;	3	
V		Cropping Trends	12	
		Discuss the dominance of certain crops in the global market and its impact on local agriculture		
		Survey with local farmers to assess the local agricultural issues in accessing global markets		
		Seminar on the effectiveness of policies in ensuring sustainability of local agriculture		

- 1. R.N. Soni and Sangeeta Malhotra: Leading Issues in Agricultural Economics (Module 1,2,3 and 4)
- 2. SK Misra and Puri : *Indian Economy*, 25<sup>th</sup> silver jubilee edition, Himalaya Publishing House (Mod- ule 1 and Module 2)
- 3. Agarwal A. N.: Indian Economy: Problems of Development and Planning (Module 3 and 4)

# **ADDITIONAL READINGS**

- 1. Ishwar C Dhigra: The Indian Economy: Environment and Policy, SC Chand & Sons, New Delhi
- 2. Ruddar Datt , K, P, M. Sundharam Indian Economy

### MAPPING OF COS WITH PSOS:

	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6	PO1	PO2	PO3	PO4	PO5	PO6	PO7
CO 1	3	-	-	1	-	-	3	ı	ı	ı	-	ı	ı
CO 2	3	2	-	1	-	-	2	-	1	-	1	-	1
CO 3	-	-	-	3	2	3	2	2	1	-	-	-	ı
CO 4	-	2	1	3	3	3	2	2	ı	ı	-	-	1
CO 5		2	-	-	2	3	1	_	-	_	2	-	2
CO 6	_	1	-	2	3	3	3	-		-	-	-	

# **CORRELATION LEVELS:**

Level	Correlation
-	Nil
1	Slightly / Low
2	Moderate / Medium
3	Substantial / High

# **ASSESSMENT RUBRICS:**

- Quiz / Assignment/ Viva Voce/ Discussion / Seminar
- Internal Exam
- Practical Assignments
- Final Exam (70%)

	Internal Exam	Quiz / Assignment/ Viva Voce/ Discussion / Seminar	Practical Assignment	End Semester Examination
CO 1	<b>√</b>	✓		<b>√</b>
CO 2	✓			✓
CO 3	✓	✓		✓
CO 4	✓	✓		✓
CO 5		√	<b>√</b>	
CO 6		✓	✓	

Programme	B.A. Economics Honours									
Course Title	DEVELOPMENT I	DEVELOPMENT ISSUES IN INDIAN ECONOMY								
Type of Course	Minor	Minor								
Semester	I									
Academic Level	100-199	100-199								
Course Details	Credit	Lecture	Tutorial	Practical	Total					
		per week	per week	per week	Hours					
	4	4 4 60								
Course Summary	This course explores important issues related to Development such as									
	Poverty, Unemploym	ent, Inequali	ty and Inflati	on.						

CO	CO Statement	Cognitive Level*	Knowledge	Evaluation Tools used
CO 1	Help in understanding the major development issues faced by Indian Economy and its historical precedents.	U	Category# C	Instructor- created exams / Group Discussion.
CO <sub>2</sub>	Help in analysing the impact of public policy framed to deal with development issues such as Poverty, inequality in income distribution, unemployment and fiscal deficit.	An	С	Instructor- created exams/ Seminars/ Projects
CO 3	understand in evaluating the conceptual framework methodology, trends and policy measures adopted regarding the development issues	П	С	Seminar Presentation / Group Discussion
CO 4	APPLY the development issues of Indian Economy, students will be exposed to economic reforms in India and problems of Indian economy	Ap	С	Instructor- created exams / Home Assignments
CO 5	Understand Students will learn how to think critically about public policy issues and made capable of measuring poverty and unemployment in a small region	U	С	Writing assignments/ Group Discussions
<u> </u>				

<sup>\* -</sup> Remember (R), Understand (U), Apply (Ap), Analyse (An), Evaluate (E), Create (C) # - Factual Knowledge(F) Conceptual Knowledge (C) Procedural Knowledge (P) Metacognitive Knowledge (M)

Modul e	Unit	Content	Hrs	Marks
I	Hi	storical Precedents of Development Issues of Indian Economy	8	13
	1	History of development Issues of Indian Economy	2	
	2	Basic indicators of Development: Real income, Health and Education	2	
	3	Basic issues in economic development	2	
	4	Institutional framework and policy regimes	2	
II		Poverty	13	21
	5	Concepts of poverty- Absolute Measurement of Poverty, Relative measurement of Poverty, Multi - Dimensional Poverty	3	
	6	Poverty Estimation-Poverty Line Calculation- Consumption verses Income levels- Data collection Methods -URP, MRP	4	
	7	Multi-dimensional poverty index.	1	
	8	Post-Independence Poverty Estimation- Tendulkar Committee (2009) -Rangarajan Committee.	2	
	9	Trends of Poverty	1	
	10	Poverty Alleviation Programmes	1	
	11	Economic Characteristics of High- Poverty Groups	1	
III		Inequality	12	29
	12	Income Inequalities in India -Causes of Income Inequalities in India	2	
	13	Measurements of Inequality-Lorenz Curve- Gini coefficient	2	
	14	The Ahluwalia- Chenery Welfare Index	2	
	15	Trends of Inequality in India.	2	
	16	Government Policy to tackle the problem of inequality	2	
	17	Policy Options on Income Inequality and Poverty	2	
IV		Unemployment:	15	35
	18	Types and Structure of unemployment	3	
	19	Conceptual framework of key employment and unemployment indicators:	4	
	20	Nature and Estimates of Unemployment in India	3	
	21	Government Policy for Removing Unemployment	3	
	22	Major Employment Programmes	2	
V	Fig	scal Deficit and Inflation in India, Measurements of Poverty and Unemployment	12	
		Discussion based on the trends in fiscal deficit and inflation in India	3	
		A simple project for the Measurement of poverty using MRP method in a Ward of LSG	5	
		A simple project for the Measurement of Unemployment in the local territory using any one methodology	5	

- 1. Nicholas C. Hope, et al. *Economic Reform in India : Challenges, Prospects, and Lessons*, edited by, Cambridge University Press, 2013. (Module 1)
- 2. <u>V.K. Puri, S. K. Misra, Bharat Garg</u> -. *Indian Economy including Union Budget 2023-24*, 2023, Hi- malaya Publishing House. (Module 2,3,4 and 5)
- 3. <u>Uma Kapila:</u> *Indian Economy Performance and Policies (23rd edition)*, Academic Foundation. (Module 2,3,4 and 5)
- 4. Singh, Shrawan Kumar. Understanding the Indian Economy from the Post-Reforms of 1991, Volume II : Anatomy of the Indian Economy, Business Expert Press, 2020. (Module 4)
- 5. Michael P. Todaro, Stephen C. Smith: Economic Development (12<sup>th</sup> edition), Pearson (Module1,2,3 and 4)

#### **ADDITIONAL READINGS**

1. Sreenivasan, T., Banerjee, A. V., Bardhan, P., & Somanathan, R. (2019). *Poverty and Income Distribution in India*, Juggernaut.

### MAPPING OF COS WITH PSOS:

	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6	PO1	PO2	PO3	PO4	PO5	PO6	PO7
CO 1	3	-	ı	-	ı	ı	3	ı	ı	ı	ı	-	ı
CO 2	-	2	-	1	-	3	2	-	-	-	1	-	1
CO 3	-	-	-	2	-	3	2	2	1	-	-	-	-
CO 4	-	3	1	2	-	3	2	2	-	-	-	-	1
CO 5	-	3	-	-	2	2	1	-	-	-	2	-	2

#### **CORRELATION LEVELS:**

Level	Correlation
-	Nil
1	Slightly / Low
2	Moderate / Medium
3	Substantial / High

# **ASSESSMENT RUBRICS:**

- 2 Quiz / Assignment/ Viva Voce/ Discussion / Seminar
- Internal Exam
- Field work and project report (20%)
- ? Final Exam (70%)

	Internal Exam	Quiz / Assignment/ Viva Voce/ Discussion / Seminar	Field work- project	End Semester Examination
CO 1	<b>√</b>	<b>✓</b>		<b>√</b>
CO 2	<b>√</b>		✓	✓
CO 3	<b>√</b>	✓		✓
CO 4	√	✓		√
CO 5		✓	✓	

Programme	B.A. Economics Honours									
Course Title	TRADE POLICY IN INDIA									
Type of Course	Minor	Minor								
Semester	II									
Academic Level	100 - 199	100 - 199								
Course Details	Credit	Lecture	Tutorial	Practical	Total					
		per week	per week	per week	Hours					
	4	4	-	-	60					
Course Summary	This course provides									
	trade policy landscape in India, equipping them with the knowledge and									
	analytical skills necessary to critically evaluate, formulate, and contribute									
	to discussions on trad	e policies								

CO	CO Statement	Cognitive	Knowledge	Evaluation
		Level*	Category#	Tools used
CO	Understand the fundamental principles	R	F	Instructor-
1	and historical evolution of trade policy			created exams /
	in India.			Quiz
CO	understand the different phases of	U	C	Practical
2	India's trade policy development.			Assignment /
				Observation of
				Practical Skills
CO	Apply the structural changes in India's	Ap	P	Seminar
3	foreign trade			Presentation /
				Group
				Discussion
CO	Apply theoretical knowledge to assess	Ap	P	Instructor-
4	the impact of FDI inflows on specific			created exams /
	sectors.			Home
				Assignments
CO	Understand the effectiveness of India's	U	M	Writing
5	Foreign Trade Policy 2023 in addressing			assignments
	economic challenges.			

<sup>\* -</sup> Remember (R), Understand (U), Apply (Ap), Analyse (An), Evaluate (E), Create (C) # - Factual Knowledge(F) Conceptual Knowledge (C) Procedural Knowledge (P) Metacognitive Knowledge (M)

Modul	Unit	Content	Hrs	Marks
e I		Introduction to Trade Policy in India	15	24
	1	India's trade policy	2	-
	2	Main features of India's trade policy	2	-
	3	Phases of India's trade policy	2	-
	4	Structural changes in India's Foreign Trade during 1980's and 1990's	3	
	5	Composition of Trade	2	
	6	Direction of Trade	2	
	7	Foreign trade policy 2023	2	
II		India's Balance of Payments	9	25
	8	Balance of Payments,	1	
	9	India's Balance of Payments since 1950	3	
	10	Foreign Exchange Reserves- the theory of reserves and the management of reserves;	3	
	11	Foreign Exchange Rate Policy, Exchange Rate;	2	
III		Foreign Direct And Portfolio Investments	9	25
	12	Evolution of policy regime towards FDI and FPI in India,	2	
	13	MNCs;	1	
	14	FDI Inflows and their impact;	3	
	15	FDI Outflows;	3	
IV		WTO and India's Trade Policy	15	24
	16	GATT - its impact on Indian Economy	2	
	17	TRIMS	2	
	18	TRIPS	2	
	19	WTO – origin,	2	
	20	Objective and structure of WTO	2	
	21	India and WTO	2	
	22	Impact of WTO on various aspects of Indian economy	3	
V	Chall	enges faced by SEZs in various regions	12	
		Discussion How SEZs contribute to job creation and technological advancements.		
		Practical Assignments Assess the socio-economic impact		]
		of an existing SEZ on the surrounding community.		
		Seminar Identify and analyse the challenges faced by SEZs in various regions.		

### REFERENCE:

- 1. Uma Kapila,(2017) *Indian Economy Since Independence* 28th Edition (Module 1,2,3 and 4)
- 2. Ruddar Datt , K, P, M. Sundharam Indian Economy (Module 1,2 and 4)
- 3. Directorate General of Foreign Trade/ Ministry of Commerce and Industry/GOI <a href="www.dgft.gov.in">www.dgft.gov.in</a> (Module 1)

## **ADDITIONAL READINGS**

- 1. Misra & Puri *Indian Economy* 25<sup>th</sup> silver jubilee edition Himalaya Publishing House .
- 2. Ishwar C Dhigra: The Indian Economy: Environment and Policy, SC Chand & Sons, New Delhi

# MAPPING OF COS WITH PSOS:

	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6	PO1	PO2	PO3	PO4	PO5	PO6	PO7
CO 1	3	2	-	-	-		3	-	-	-	-	-	1
CO 2	-	3	2	-	-	4	2	-	-	-	1	-	1
CO 3	-	3	-	2	-	-	2	2	1	-	-	-	-
CO 4	-	2	-	2	-	-	2	2	-	-	-	-	1
CO 5	-	1	-	2	1	-	1	-	-	-	2	-	2

# **CORRELATION LEVELS:**

Level	Correlation			
-	Nil			
1	Slightly / Low			
2	Moderate / Medium			
3	Substantial / High			

### **ASSESSMENT RUBRICS:**

- 2 Quiz / Assignment/ Viva Voce/ Discussion / Seminar
- Internal Exam
- Practical Assignments
- Final Exam (70%)

	Internal Exam	Quiz / Assignment/ Viva Voce/ Discussion / Seminar	Practical Assignment	End Semester Examination
CO 1	✓	✓		√
CO 2	✓		✓	✓
CO 3	✓	✓		✓
CO 4	✓	✓		✓
CO 5		✓	✓	

Program B.A. Economics Honours	
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Course Title	KNOWLEDGE ECONOMY IN INDIA						
Type of Course	Minor						
Semester	III						
Academic Level	200-299						
Course Details	Credit	Lecture	Tutorial	Practical	Total		
		per week	per week	per week	Hours		
	4	4	-	ı	60		
Course Summary	The course emphasizes the impact of knowledge economy on economic development, by analyzing the historical evolution of knowledge economy in India, importance of human capital in knowledge economy, and the role of innovation in driving the knowledge economy.						

CO	CO Statement	Cognitive	Knowledge	Evaluation
		Level*	Category#	Tools used
CO	Understand the concept and	U	С	Instructor-
	characteristics of the knowledge economy.			created exams / Quiz
CO	Analyze the impact of brain	An	U	Assignment /
2	drain and brain gain on India's			Seminar
	knowledge economy.			Presentation
CO	Evaluate the importance of	U	U	Seminar
3	intellectual property rights in			Presentation /
	fostering innovation.			Group
				Discussion
CO	Apply knowledge economy	Ap	Ap	Practical
4	concepts to real-world scenarios.			Assignments /
				Case Studies
CO	Demonstrate critical thinking and	Ap	Ap	Writing assignments/
5	problem-solving skills by applying		_	Survey / Seminar/
	the acquired knowledge to address			presentation/ Group
	complex economic challenges in			Discussion
	the contemporary world.			

<sup>\* -</sup> Remember (R), Understand (U), Apply (Ap), Analyse (An), Evaluate (E), Create (C) # - Factual Knowledge(F) Conceptual Knowledge (C) Procedural Knowledge (P) Metacognitive Knowledge (M)

Module STAILED ST	1		TTwa	Monka				
Module	Unit	Content  Introduction to the Knowledge Economy	Hrs 10	Marks 17				
1	1	Introduction to the Knowledge Economy  Definition and characteristics of the knowledge economy		1/				
	2	Evolution of the knowledge economy	$\frac{1}{2}$					
	3		2	1				
	3	Distinction between traditional and knowledge-based economies	2					
	4	Global trends and drivers of the knowledge economy	3					
	5	The role of knowledge in economic development.	2					
II	<i>J</i>	The Knowledge Economy in India	18	28				
11	6 Emergence and growth of the knowledge economy in India							
	7	Key sectors of the Indian knowledge economy: IT, IT-	4	1				
	,	enabled	4					
		services, biotechnology, pharmaceuticals, education, R&D						
	8	The role of government in promoting the knowledge	2					
	0	economy	2					
	9	Challenges and opportunities for the Indian knowledge	2					
		economy	_					
	10	Impact of the knowledge economy on employment patterns	3					
		and social dynamics in India.						
	11	India's position in the global knowledge economy and its	3					
		competitiveness.						
III		Human Capital and the Knowledge Economy	8	29				
	12	The importance of human capital for the knowledge	2					
		economy						
	13	Education and skill development in India	2					
	14	Brain drains and brain gain in the Indian context	2					
	15	Strategies for developing a skilled workforce for the	2					
	1.0	knowledge economy						
	16	Policies and initiatives promoting education and human	2					
IV		Innovation and the Knowledge Economy	12	24				
1 4	17	Definition of Innovation and Knowledge	2	4-				
	18	The role of innovation in 5 key capabilities or 'E's: Enablers,	$\frac{2}{2}$	-				
	10	Education,	<i></i>					
		Engagement, Entrepreneurship and Empowerment,						
		Environment.						
	19	The Indian innovation ecosystem: startups, incubators,	2					
		accelerators						
	20	Intellectual property rights and innovation	2					
	21	The role of innovation in driving the knowledge economy	1	1				
	22	Challenges and opportunities related to IPR in India.	1					
V		Sustainable Knowledge Economy	12					
	1	Seminar on Building a Sustainable Knowledge Economy in		1				
		India:						
		Balancing Growth with Equity						
	2	Discussion about the Future of the Knowledge Economy in						
		India						

3	Practical Assignments Analyse the impact of India's National	
	Skill Development Mission and propose improvements to enhance its effectiveness in training and upskilling the workforce for the knowledge economy.	
4	Critically evaluate the Inequality and inclusivity in the knowledge economy.	
5	Organize a debate on Emerging trends in the knowledge economy	

- 1. Carl Dahlman and Anuja Utz (2005). *India and the Knowledge Economy*. World Bank publication. (Module 1,2,3,4&5)
- **2.** Kulkarni, A. (2019). *India and the Knowledge Economy: Performance, Perils, and Prospects.* Springer Nature. (Module 1,2,3,4&5)

#### **ADDITIONAL READINGS**

- 1. World Bank. (2012). *India's knowledge economy: Opportunities and challenges*. World Bank Publications
- 2. Frank-Jurgen Richter and Parthasarathi Banerjee (2003). The Knowledge Economy in India. Springer
- 3. Mehrotra, S. (2012). The knowledge economy and development in India. Routledge
- 4. Ghosh, B. (2010). *India's knowledge economy: Opportunities and challenges*. Bloomsbury Publishing

### MAPPING OF COS WITH PSOS:

	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6	PO1	PO2	PO3	PO4	PO5	PO6	PO7
CO 1	3	-	-	-	-	-	3	-	-	-	-	-	ı
CO 2	-	3	3	2	-	-	2	-	-	-	1	-	1
CO 3	-	1	-	3	-	2	2	2	1	-	-	-	-
CO 4	-	1	-	1	-	-	2	2	-	-	-	-	1
CO 5	-	1	-	3	2	-	1	-	-	-	2	-	2

#### **CORRELATION LEVELS:**

Level	Correlation
-	Nil

1	Slightly / Low
2	Moderate / Medium
3	Substantial / High

# **ASSESSMENT RUBRICS:**

- Quiz / Assignment/ Viva Voce/ Discussion / Seminar
- Internal Exam
- Practical Assignments
- Final Exam (70%)

	Internal Exam	Quiz / Assignment/ Viva Voce/ Discussion / Seminar	Practical Assignment	End Semester Examination
CO 1	<b>✓</b>	<b>✓</b>		<b>√</b>
CO 2		✓		<b>√</b>
CO 3		✓		✓
CO 4			✓	✓
CO 5		✓	✓	

Programme	B.A. Economics Honours						
Course Title	MICROECONOMICS FOUNDATIONS						
Type of Course	Minor						
Semester	I						
Academic	100 – 199						
Level							
Course Details	Credit	Lecture	Tutorial	Practical	Total		
		per week	per week	per week	Hours		
	4	4	ı	ı	60		
Pre-requisites	Basic Economics Co	urse					
Course	This course explores important concepts, basic theories and models,						
Summary	various market st	various market structures and other fundamental aspects of					
	microeconomics.						

СО	CO Statement	Cognitive Level*	Knowledge Category#	Evaluation Tools used
CO 1	Understand the basic concepts of microeconomics	U	C	Instructor- created exams / Quiz
CO 2	Apply the basic concepts of microeconomics to real-world scenario	Ap	Р	seminar /Assignment / Observation of Practical Skills
CO 3	Analyse market equilibrium and its applicability in the real world	An	Р	Seminar Presentation / instructor created exams
CO 4	Evaluate consumer choices and preferences	Е	Р	Instructor- created exams / Home Assignments
CO 5	Analyse different market structures in connection with existing market conditions for different products in the world	An	F	Writing assignments

<sup>\* -</sup> Remember (R), Understand (U), Apply (Ap), Analyse (An), Evaluate (E), Create (C)
# - Factual Knowledge(F) Conceptual Knowledge (C) Procedural Knowledge (P)
Metacognitive Knowledge (M)

Module ST	Uni	Content	Hrs	Marks			
Module	t	Content	1115	Wiaiks			
I		Supply and Demand	10	22			
	1	Demand: The Demand Curve, The Demand Function, Summing Demand Curves	2				
	2	Supply: The Supply Curve, The Supply Function, Summing Supply Curves	2				
	3 Market Equilibrium: Using a Graph to Determine the Equilibrium, Using Math to Determine the Equilibrium, Forces That Drive the Market to Equilibrium						
	4	Shocking the Equilibrium: Effects of a Shift in the Demand Curve, Effects of a Shift in the Supply Curve	2				
	5	Equilibrium Effects of Government Interventions: Policies That Shift Supply Curves, Policies That Cause Demand to Differ from Supply, Why Supply Need Not Equal Demand	2				
II		Consumer Choice	10	22			
	6	Preferences: Properties of Consumer Preferences, Preference Maps	2				
	7	Utility: Utility Function, Ordinal Preferences, Utility and Indifference Curves, Utility and Marginal Utility, Utility and Marginal Rates of Substitution	4				
	8	Budget Constraint: Slope of the Budget Constraint, Effect of a Change in Price on the Opportunity Set, Effect of a Change in Income on the Opportunity Set	2				
	9	Constrained Consumer Choice: The Consumer's Optimal Bundle, Optimal Bundles on Convex Sections of Indifference Curves, Buying Where More Is Better	2				
III		Production and Cost	15	34			
	10	The Ownership and Management of Firms: Private, Public, and Nonprofit Firms, The Ownership of For-Profit Firms, The Management of Firms, What Owners Want	2				
	11	Production: Production Functions, Time and the Variability of Inputs	1				
	12	Short-Run Production: One Variable and One Fixed Input: Total Product, Marginal Product of Labor, Average Product of Labor, Graphing the Product Curves, Law of Diminishing Marginal Returns	2				
	13	Long-Run Production: Two Variable Inputs: Isoquants, Substituting Inputs	2				
	14	Returns to Scale: Constant, Increasing, and Decreasing Returns to Scale, Varying Returns to Scale	2				
	15	The Nature of Costs: Opportunity Costs, Costs of Durable Inputs, Sunk Costs	2				
	16	Short-Run Costs: Short-Run Cost Measures, Short-Run Cost Curves, Production Functions and the Shape of Cost Curves, Effects of Taxes on Costs,	2				
	17	Long-Run Costs: Input Choice, How Long-Run Cost Varies	2				

		with Output, The Shape of Long-Run Cost Curves		
IV		13	20	
	18	Perfect Competition: Price Taking, Why the Firm's Demand Curve Is Horizontal, Derivation of a Competitive Firm's Demand Curve, Profit Maximization, Short-Run Competitive Profit Maximization, Long-Run Competitive Profit Maximization	4	
	19	Monopoly: Monopoly Profit Maximization, Market Power,	2	
	20	Welfare Effects of Monopoly	1	
	21	Oligopoly: Cartels, Noncooperative Oligopoly, The Cournot Equilibrium and the Number of Firms, Stackelberg Graphical Model, Comparison of Collusive, Cournot, Stackelberg, and Competitive Equilibria	4	
	22	Monopolistic Competition: Monopolistically Competitive Equilibrium, Fixed Costs and the Number of Firms	2	
V		Market structure and policies	12	
		<b>Discussion</b> based on different market structures prevailing in the world		
		<b>Seminar</b> on the influence of economic policies on market transactions		

1. Perloff, J. M. (2023). Microeconomics, Global Edition. Pearson Higher Ed.

# ADDITIONAL READINGS

- 1. Krugman, P., & Wells, R. (2018). Microeconomics. Worth Publishers.
- 2. Pindyck, R., & Rubinfeld, D. (2012). Microeconomics. Pearson Higher Ed.
- 3. Tucker, I. B. (2016). Microeconomics for today. Cengage Learning.

## MAPPING OF COS WITH PSOS:

	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6	PO1	PO2	PO3	PO4	PO5	PO6	PO7
CO 1	3	-	-	-	-	-	3	-	-	1	1	-	1
CO 2	-	-	-	2	3	-		-	3	ı	ı	-	3
CO 3	-	-	2	-		3	1	2	-	1	1	3	1
CO 4	-	3	-	-	-	-	1	-	-	-	2	-	-
CO 5	-	-	_	-	3	-	-1	-	-	-	2	-	3

# **CORRELATION LEVELS:**

Level	Correlation
-	Nil
1	Slightly / Low
2	Moderate / Medium
3	Substantial / High

### **ASSESSMENT RUBRICS:**

- Quiz / Assignment/ Viva Voce/ Discussion / Seminar
- Internal Exam
- Seminar /Assignments (20%)
- Final Exam (70%)

	Internal Exam	Quiz / Assignment/ Viva Voce/ Discussion / Seminar	Seminar /Assignment	End Semester Examination
CO 1	<b>✓</b>	<b>✓</b>		<b>√</b>
CO 2	<b>√</b>		✓	✓
CO 3	<b>√</b>	✓		<b>√</b>
CO 4	<b>√</b>	✓		✓
CO 5		✓	✓	

Programme	B.A. Economics Honours								
Course Title	MACROECONOMICS FOUNDATIONS								
Type of Course	Minor								
Semester	II								
Academic	100 – 199								
Level									
Course Details	Credit	Lecture	Tutorial	Practical	Total				
		per week	per week	per week	Hours				
	4	4	ı	1	60				
Pre-requisites	Basic Economics Course								
Course	This course examines the performance and behavior of the economy as								
Summary	a whole. It focuses its attention on economic growth, the business cycle,								
	interest rates, inflation, and the behavior of major economic aggregates								
	such as the government, household, and business sectors.								

# Course Outcomes (CO):

CO	CO Statement	Cognitive Level*	Knowledge Category#	Evaluation Tools used
CO 1	Understand different types of unemployment and inflation and its consequences	U	С	Instructor- created exams / Quiz
CO 2	Identify key institutional factors contributing to economic growth	Ap	Р	instructor created exams/Assignme nt / Observation of Practical Skills
CO 3	Explain periods of recession and expansion using the expenditure output model	Ap	P	Seminar Presentation / Group Discussion/in structor created exams
CO 4	Analyse the current environment for financial investment decisions	An	Р	Instructor- created exams / Home Assignments
CO 5	Propose policy recommendations based on economic analysis	E	P	Writing assignments

<sup>\* -</sup> Remember (R), Understand (U), Apply (Ap), Analyse (An), Evaluate (E), Create (C)

<sup># -</sup> Factual Knowledge(F) Conceptual Knowledge (C) Procedural Knowledge (P) Metacognitive Knowledge (M)

Module STAILED ST	Uni	Content	Hrs	Marks		
	t	The Macroeconomic Perspective				
I		12	18			
	1	Assessing the Economy's Performance: Gross Domestic Product, A Monetary Measure, Avoiding Multiple Counting, GDP Excludes Nonproduction Transactions, Two Ways of Looking at GDP: Spending and Income	3			
	2	The Business Cycle: Phases of the Business Cycle, Causes, Cyclical Impact: Durables and Nondurables	2			
	3 Unemployment: Measurement of Unemployment, Types of Unemployment, Definition of Full Employment, Economic Cost of Unemployment, Noneconomic Costs					
	4	Inflation: Meaning of Inflation, Measurement of Inflation, Facts of Inflation, Types of Inflation, Complexities, Core Inflation	3			
	5	Redistribution Effects of Inflation: Nominal and Real Income, Anticipations, Who Is Hurt by Inflation? Who Is Unaffected or Helped by Inflation? Anticipated Inflation, Negative Nominal Interest Rates, Other Redistribution Issues	2			
II		Basic Macroeconomic Relationships	12	18		
	6	The Income-Consumption and Income-Saving Relationships: The Consumption Schedule, The Saving Schedule, Average and Marginal Propensities	3			
	7	Non-income Determinants of Consumption and Saving	2			
	8	The Interest-Rate—Investment Relationship: Expected Rate of Return, The Real Interest Rate, Investment Demand Curve	3			
	9	Shifts of the Investment Demand Curve: Instability of Investment	2			
	10	The Multiplier Effect: Rationale, The Multiplier and the Marginal Propensities, How Large Is the Actual Multiplier Effect?	2			
III		Money, Banking, and Financial Institutions	11	16		
	11	The Functions of Money	1			
	12	The Components of the Money Supply: Money Definitions M <sub>0</sub> , M <sub>1</sub> , M <sub>2</sub> , M <sub>3</sub>	2			
	13	What "Backs" the Money Supply? Money as Debt, Value of Money, Money and Prices, Stabilizing Money's Purchasing Power	2			
	14	The Central Bank: RBI and the banking system, Functions, Responsibilities and Independence of RBI	2			
	15	Commercial Banks: Structure of commercial banks in India, Functions of commercial banks	2			
	16	Monetary policy: Tools, Monetary Policy Committee, Inflation Targeting	2	4.5		
IV		Financial Economics	13	18		
	17	Financial Investment	1			

	18	Present Value: Compound Interest, The Present Value Model, Applications	3	
	19	Calculating Investment Returns: Percentage Rates of Return, The Inverse Relationship between Asset Prices and Rates of Return	2	
	20	Arbitrage	2	
	21	Risk: Diversification	2	
	22	Comparing Risky Investments: Average Expected Rate of Return, Beta, Relationship of Risk and Average Expected Rates of Return, The Risk Free Rate of Return	3	
V		Indian economy and monetary policies	12	
		<b>Discussion</b> based on inflation, unemployment and GDP prevailing in India		
		<b>Debate</b> on monetary policy by RBI		
		<b>Seminar</b> on the influence of transactions in financial assets		
		on economy		

4. McConnell, C. R., Brue, S. L., & Flynn, S. M. (2021). Macroeconomics. MCGRAW-HILL

#### **ADDITIONAL READINGS**

- 1. Mankiw, N. G., Kneebone, R. D., & McKenzie, K. J. (2023). Principles of Macroeconomics, 9th Edition. Cengage Canada.
- 2. Mateer, D., & Coppock, L. (2021). *Principles of Economics*, Third Edition. W.W. Norton & Company.
- 3. Cornia, G. A. (2020). *The macroeconomics of developing countries: An Intermediate Textbook*. Oxford University Press.

#### **MAPPING OF COS WITH PSOS:**

	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6	PO1	PO2	PO3	PO4	PO5	PO6	PO7
CO 1	3	-	-	-	-	2	2	-	-	-	1	-	-
CO 2	-	-	-	-	2	2	2	-	3	-	-	-	1
CO 3	-	-	-	-	3	1	1	2	-	-	-	3	-
CO 4	-	3	-	-	2			-	-	-	2	-	-
CO 5	-	-	-	3	1	-	-	-	-	-	2	-	3

#### **CORRELATION LEVELS:**

Level	Correlation
-	Nil
1	Slightly / Low
2	Moderate / Medium
3	Substantial / High

#### **ASSESSMENT RUBRICS:**

- Quiz / Assignment/ Viva Voce/ Discussion / Seminar
- Internal Exam
- Test/ Assignments (20%)
- Final Exam (70%)

	Internal Exam	Quiz / Assignment/ Viva Voce/ Discussion / Seminar	Test/ Assignment	End Semester Examination
CO 1	<b>✓</b>	<b>✓</b>		<b>√</b>
CO 2	<b>✓</b>		✓	<b>√</b>
CO 3	<b>√</b>	<b>✓</b>		<b>√</b>
CO 4	<b>√</b>	<b>√</b>		<b>√</b>
CO 5		✓	✓	

Programme	B.A. Economics Hor	nours					
Course Title	FOUNDATIONS OF GLOBAL ECONOMICS						
Type of Course	Minor						
Semester	III						
Academic	200 – 299						
Level							
Course Details	Credit	Lecture	Tutorial	Practical	Total		
		per week	per week	per week	Hours		
	4	4	-	-	60		
Pre-requisites	Basic Economics Co	urse					
Course	This course delves in	to the econo	mic interacti	ons and relati	onships that		
Summary	transcend national borders, examining how countries trade goods and						
	services, invest in ea	services, invest in each other's economies, and manage their currencies					
	in a globalized world						

### Course Outcomes (CO):

CO	CO Statement	Cognitive Level*	Knowledge Category#	Evaluation Tools used
CO 1	Understand the relationship between international economics and economic development	U	Ĉ	Instructor- created exams / Quiz
CO 2	Relate the Theory of Foreign Trade to economic development	Ap	Р	Seminar/ Assignment / instructor cretaed exams
CO 3	Investigate foreign investments and their implications in the context of international economics	An	Р	Seminar Presentation / Group Discussion
CO 4	Analyse the current environment for financial investment decisions	An	Р	Instructor- created exams / Home Assignments
CO 5	Propose policy recommendations based on economic analysis	Е	Р	Writing assignments

<sup>\* -</sup> Remember (R), Understand (U), Apply (Ap), Analyse (An), Evaluate (E), Create (C)

<sup># -</sup> Factual Knowledge(F) Conceptual Knowledge (C) Procedural Knowledge (P) Metacognitive Knowledge (M)

#### DETAILED SYLLABUS:

Module	Uni	Content	Hrs	Marks				
I	t	Introduction to Global Economics	9	18				
	1	Globalization of the Economic Activity; Waves of Globalization		10				
	2	International Trade and the Nation's Standard of Living	2					
	3							
	4	The International Flow of Labor and Capital	1					
	5	Purpose of International Economic Theories and Policies	2					
II		International Institutions and Issues	15	30				
	6	International Institutions since World War II	3					
	7	A Taxonomy of International Economic Institutions	2					
	8	The IMF and World Bank	2					
	9	The GATT, the Uruguay Round, and the WTO	2					
	10	Regional Trade Agreements; Five Types of Regional Trade Agreements; Regional Trade Agreements and the WTO	2					
	11	The Role of International Economic Institutions	2					
	12	Criticism of International Institutions	2					
III		International Trade and Economic Development	10	22				
	13	The Importance of Trade to Development: Trade Theory and Economic Development, Trade as an Engine of Growth, The Contributions of Trade to Development, International Trade and Endogenous Growth Theory	3					
	14	The Terms of Trade and Economic Development	3					
	15	Import Substitution versus Export Orientation	2					
	16	Trade Problems of Developing Countries	2					
IV		Balance of Payments and Foreign Exchange Market	14	28				
	17	Balance-of-Payments Accounting Principles: Credits and Debits, Double-Entry Bookkeeping	2					
	18	The Current and Capital Account Balances	3					
	19	Financial Account: Types of Financial Flows, Limits on Financial Flows	2					
	20	Fixed, Flexible and Managed Exchange Rates	2					
	Exchange Rates and Currency Trading: Reasons for Holding Foreign, Currencies, Institutions, Exchange Rate Risk							
	22	The Real Exchange Rate	2					
V		foreign trade and indian economy	12					
		Discussion based on trends of foreign trade, composition of foreign trade and direction of foreign trade in India  Debate on exchange rate system to be followed by						
		developing countries  Seminar on international institutions and their role in India						

- 1. Gerber, J. (2024). International Economics. Global Edition. Pearson.
- 2. Salvatore, D. (2019). International Economics. John Wiley & Sons.

#### **ADDITIONAL READINGS**

- 1. Appleyard, D. R., & Field, A. J. (2014). International Economics. Eighth Edition McGraw-Hill.
- 2. Carbaugh, R. (2016). International Economics. Cengage Learning.
- 3. Brakman, S. (2006). Nations and firms in the global economy: An Introduction to International Economics and Business. Cambridge University Press.

#### Mapping of COs with PSOs:

	PSO1	PSO2	PSO3	PSO4	PSO5	PO1	PO2	PO3	PO4	PO5	PO6	PO7
CO 1	3	1	-	-	-	2	1	-	1	1	-	-
CO 2	-	ı	-	-	3	2	1	3	ı	-	-	1
CO 3	-	-	-	-	2	1	2	-	-	-	3	-
CO 4	-	3	-	-	2		-	-	-	2	-	1
CO 5	-	1	-	1	2	-	-	-	-	2	-	-

#### **CORRELATION LEVELS:**

Level	Correlation			
-	Nil			
1	Slightly / Low			
2	Moderate / Medium			
3	Substantial / High			

#### **ASSESSMENT RUBRICS:**

- Quiz / Assignment/ Viva Voce/ Discussion / Seminar
- Internal Exam
- seminar/Assignments (20%)
- 2 Final Exam (70%)

	Internal Exam	Quiz / Assignment/ Viva Voce/ Discussion / Seminar	seminar/test /Assignment	End Semester Examination
CO 1	<b>\</b>	<b>✓</b>		<b>\</b>
CO 2	<b>✓</b>		<b>✓</b>	<b>\</b>
CO 3	<b>√</b>	<b>✓</b>		<b>√</b>
CO 4	<b>√</b>	<b>√</b>		<b>√</b>
CO 5		✓	<b>√</b>	

General Foundation Courses in Economics

Programme	B.A. Economics Honours							
Course Title	SECURITY TRADING PRACTICES							
Type of Course	MDC							
Semester	I							
Academic Level	100 – 199							
Course Details	Credit	Lecture	Tutorial	Practical	Total			
		per week	per week	per week	Hours			
	3	3	-	-	45			
Pre-requisites	Basic course on stock market of level 0 - 99							
Course Summary	This course is designed to provide a theoretical and practical background							
	in the field of investn	nents.						

#### COURSE OUTCOMES (CO):

СО	CO Statement	Cognitive Level*	Knowledge Category#	Evaluation Tools used
CO 1	Students will acquire a conceptual foundation in the field of investments.	U	С	Instructor- created exams / Quiz
CO 2	Learners will gain skills in designing and managing both bond and equity portfolios in real-world scenarios.	Ap	P	Practical Assignment using paper trading app
CO 3	Students will be able to value various financial instruments, including equity and debt securities	An	Р	Seminar Presentation / Group Discussion
CO 4	Evaluate the characteristics of various avenues of investment.	E	M	Instructor- created exams / Home Assignments

#### DETAILED SYLLABUS:

Modul	Unit	Content	Hrs	Marks
e	T	nvestment Environment, Markets and Instruments	8	20
	1		1	20
	1	Financial Market—Primary and Secondary market	1	
	2	instruments of secondary market;	1	
	3	Major Agencies of Secondary market: NSE, BSE, CDSL,	2	
ī		NSDL, SEBI	4	
	4	Different types of trading—overview of derivative market, futures and options, Major indices of BSE and NSE.	2	
	5	Different trader in the secondary market—FIIs, DIIs, retailers	2	

<sup>\* -</sup> Remember (R), Understand (U), Apply (Ap), Analyse (An), Evaluate (E), Create (C) # - Factual Knowledge(F) Conceptual Knowledge (C) Procedural Knowledge (P) Metacognitive Knowledge (M)

II	Equity Selection	8	15

	6	The Fundamental Analysis: Meaning and importance	1	
	7	Important ratios; Price-to-Earnings (P/E) ratio-Price-to-Book (P/B) ratio -Dividend Yield, Earnings Per Share (EPS), ROCE and ROE, D/EBITDA, EV/EBITDA	2	
	8	Technical Analysis: Meaning and importance	2	
	9	important methods—chart, candle sticks important indicators namely, Support, resistance, RSI, Moving Average, volume, price channel, VIX –	3	
		Portfolio Creation	8	15
111	10	Theories of portfolio creation: Capital Asset Pricing Model (CAPM), Arbitrage Pricing Theory (APT), Markowitz portfolio theory, Behavioural Portfolio Theory	4	
III	11	Different types of Brokers Process of opening a demat account with a discount broker	2	
	12	Maintain trading account details— P& L statement-capital gain – capital gain tax details that are to be included in the income tax return.	2	
		Trade Management	12	20
	13	Different Sectors in secondary market eg Banking, Auto, pharma, IT, infrastructure, FMCG etc.	2	
	14	Portfolio allocation and selection in different sectors.  Maintaining risk- reward—Position sizing of equities	2	
	15	Capital building through cumulative investment	2	
IV	16	Trader psychology—need and approach to maintain good psychology by a trader	2	
	17	Practice—download a virtual trading platform and selection	1	
	18	Creating portfolio composing of multiple segments	1	
	19	Getting familiar with the demat account of any one broker preferably select one who do not charge AMC or brokerage fees	2	
		Trend Analysis	9	
V		Analyze the current trend Draw accurate trend lines Identify crucial support and resistance levels Make informed decisions on entry and exit points Trade in range-bound markets Use trading signals with different indicators		
	1	WILLIAM MIGICALOLD		

- 1. Investments" by Zvi Bodie, Alex Kane, and Alan J. Marcus (McGraw-Hill, 12th edition, 2023)
- 2. "The Stock Market Game" by Robert Hagstrom (John Wiley & Sons, 10th edition, 2022)
- 3. "Investing for Dummies" by Matthew Krantz (Wiley, 6th edition, 2023)
- 4. "The Intelligent Investor" by Benjamin Graham (HarperCollins, Revised edition by Jason Zweig, 2003)

- 5. "Security Analysis" by Benjamin Graham, David L. Dodd, and Sidney B. Zweig (McGraw-Hill, 8th edition, 2014)
- 6. "Technical Analysis Explained" by Martin Pring (McGraw-Hill, 5th edition, 2018)
- 7. "Trading in the Zone" by Mark Douglas (Harriman House Publishers, 3rd edition, 2011)
- 8. "Demat and Trading Guide" by NSE Academy (Available online at nseindia.com)
- 9. "A Random Walk Down Wall Street" by Burton Malkiel (Norton, 13th edition, 2023)
- 10. "The Art of Asset Allocation" by Roger Ibbotson and Rex Sinquefield (Wiley, 5th edition, 2019)

#### MAPPING OF COS WITH PSOS:

	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6	PO1	PO2	PO3	PO4	PO5	PO6	PO7-
CO 1	3	-	1	1	_	1	3	1	1	1	1	1	-
CO 2	-	3	1	2	_	1	2	1	3	ı	ı	ı	1
CO 3	3	-	1	1	_	1	1	2	1	1	1	3	-
CO 4	-	3	1	3	-	-		-	-	-	-		2

#### **CORRELATION LEVELS:**

Level	Correlation
-	Nil
1	Slightly / Low
2	Moderate / Medium
3	Substantial / High

#### **ASSESSMENT RUBRICS:**

- 2 Quiz / Assignment/ Viva Voce/ Discussion / Seminar
- Internal Exam
- Practical Assignments (20%)
- Final Exam (70%)

	Internal Exam   Quiz / Assignment/ Viva Voce/ Discussion / Seminar		Practical Assignment	End Semester Examination
CO 1	✓	<b>✓</b>		<b>√</b>
CO 2	✓		✓	✓
CO 3	✓	<b>✓</b>		<b>√</b>
CO 4	✓	✓		✓

Programme	B.A. Economics Honours								
Course Title	DIGITAL ECONOR	DIGITAL ECONOMY							
Type of Course	MDC								
Semester	II								
Academic Level	100 – 199								
Course Details	Credit	Credit Lecture Tutorial Practical Total							
		per week	per week	per week	Hours				
	3	3	-	-	45				
Pre-requisites	Basic course on Econ	omics of 0 –	99 level						
Course	This course is designed to provide a theoretical and practical knowledge								
Summary	about digital economy	y							

#### COURSE OUTCOMES (CO):

CO	CO Statement	Cognitive Level*	Knowledge Category#	Evaluation Tools used
CO	Understand the Historical	U	C	Instructor-
1	foundations and impact of the			created exams /
	digital economy.			Quiz,
				Assignment
CO	Analyze business and innovation	An	P	Case Study
2	in the digital age.			Analysis,
CO	Critically evaluate the role of data	Е	M	Research Paper,
3	and analytics.			Debate
				Participation
CO	Assess the policy and social	Ap	p	Instructor-
4	implications of the digital			created exams /
	economy.			Home
				Assignments

Module	Unit	Content	Hrs	Marks			
I		Foundations of the Digital Economy					
		The Rise of the Digital Economy: Historical context, key					
	1	technologies, economic impact of digital economy on	2				
		economic growth, productivity and employment.					
	2	Definition and Meaning of Digital Economy	1				
	3	Digital Goods and Services: Characteristics, pricing	2				
	3	models, and distribution channels.	2				
	4	Platforms and Marketplaces: Two-sided markets, network	2				
	4	effects, and platform power.					
	5	Data & Information Economics: The information value					
	)	chain, big data.	2				

<sup>\* -</sup> Remember (R), Understand (U), Apply (Ap), Analyse (An), Evaluate (E), Create (C) # - Factual Knowledge(F) Conceptual Knowledge (C) Procedural Knowledge (P) Metacognitive Knowledge (M)

6	Privacy: Data protection and security – privacy concerns	1	
7	Theories of Digital Economy: Growth theory of digital	2	
	economy –endogenous growth theory – monetary theory of		

		digital economy		
		<b>Business and Innovation in the Digital Age</b>	8	15
	8	E-commerce and Online Retail: Business models, customer behaviour, and logistics challenges.	2	
	9	Logistic – Logistic – models – challenges of E-commerce		
II	10	The Sharing Economy: Collaborative consumption, platform competition, and regulatory issues.	2	
	11	Fintech and Financial Innovation: Digital payments, cryptocurrencies, and blockchain technology	2	
	12	Digital Transformation and Strategy: How businesses are adapting to the digital environment.	2	
		Data and Analytics	8	15
III	13	The Role of Data and Analytics – Big data, data analytics, and their importance in the digital economy.	3	
	14	Emerging trends and technologies shaping the future of the digital economy, such as AI, blockchain, and the metaverse.	4	
	15	The ethical implications of data collection and usage	1	
		Policy and Social Implications of the Digital Economy	8	20
	16	Competition Policy and Antitrust in the Digital Era: Regulating platform monopolies and market dominance	2	
IV	17	Intellectual Property and Copyright in the Digital Age: Challenges of protecting digital content and innovation.	2	
1	18	Digital Divide and Inequality: Access to technology, skills development, and social justice concerns.	2	
	19	The Future of Work in the Digital Economy: Automation, job displacement, and new skills requirements.	2	
		Digital Economy and India	9	
		Discussion based on different digital systems, platforms,		
IV		technologies, etc. prevailing in India		
		Practical Assignments on digital economy in India		
		Seminar on the digital economy and shaping of policies in India		

- 1. Harld Overby and Jan Arild Audestad (2021). *Introduction to Digital Economics: Foundation, Busi-ness Models and Case Studies*. Springer.
- 2. Don Tapscott and Anthony D. Williams (2016). *The Digital Economy: Concepts and Applications*. McGraw-Hill Education (Module I)
- 3. Liu, Z. (2022). *Principles of Digital Economics: Innovation Theory in the Age of Intelligence*. Springer Nature. (Module 1, Unit 7)

#### **ADDITIONAL READINGS**

- 1. Mayer-Schönberger, V., & Cukier, K. (2013). *Big data: A Revolution that Will Transform how We Live, Work, and Think.* Houghton Mifflin Harcourt.
- 2. Davenport, T., & Harris, J. (2017). *Competing on Analytics: Updated, with a New Introduction: The New Science of Winning.* Harvard Business Press.
- 3. Russell, S., & Norvig, P. (2021). *Artificial Intelligence: A Modern Approach*, Global Edition. Pear- son Higher Ed.
- 4. Zuboff, S. (2019). The Age of Surveillance Capitalism: The Fight for a Human Future at the New Frontier of Power. Profile Books.

#### MAPPING OF COS WITH PSOS:

	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6	PO1	PO2	PO3	PO4	PO5	PO6	PO7-
CO 1	3	2	1	1	-	-	3	-	-	-	1	-	-
CO 2	2	3	3	2	-	1	2	1	3	ı	-	ı	1
CO 3		1	2	2	-	-	1	2	-	-	-	3	-
CO 4	2	3	3	3	-	-		-	-	-	2	-	-

#### **CORRELATION LEVELS:**

Level	Correlation
-	Nil
1	Slightly / Low
2	Moderate / Medium
3	Substantial / High

#### **ASSESSMENT RUBRICS:**

- 2 Quiz / Assignment/ Viva Voce/ Discussion / Seminar
- Internal Exam
- Practical Assignments (30%)
- Pinal Exam (70%)

	Internal Exam	Quiz / Assignment/ Viva Voce/ Discussion / Seminar	Practical Assignment	End Semester Examination
CO 1	<b>√</b>			<b>√</b>
CO 2	✓		✓	✓

CO 3	<b>√</b>	<b>√</b>	✓	✓
CO 4	<b>√</b>	<b>√</b>	✓	✓

Programme	B.A. Economics Honours							
Course Title	FINANCIAL LIT	FINANCIAL LITERACY AND PERSONAL FINANCE						
Type of Course	Value Added Cou	Value Added Course						
Semester	III	III						
Academic Level	100 – 199							
Course Details	Credit	Lecture per week	Tutorial per week	Practical per week	Total Hours			
	3 - 45							
Pre-requisites	Basic course on Ec	Basic course on Economics of 0 – 99 level						

Course Summary	This course provokes the students on the importance of personal					
	financial planning and imparts basic financial literacy principles, with					
	the intention of building in them capability to manage personal finances					
	optimally in various stages of life.					

### **COURSE OUTCOMES (CO):**

СО	CO Statement	Cognitive Level*	Knowledge Category#	Evaluation Tools used
CO1	Understand the basic principles of personal finance and its applications.	U	С	Instructor- created exams / Quiz
CO2	Develop and practice the skill of planning and managing personal finances efficiently.	Ap	Р	Practical Assignment / Creating a sample personal financial plan
CO3	Help the students master the concept of time value of money and provide them with necessary skills to beat inflation and maintain the purchasing power of money.	U	С	Seminar Presentation / Group Discussion
CO4	Understand and apply structured personal financial techniques in real life situations.	Ap	Р	Instructor- created exams / Home Assignments
CO5	Provide the students with an understanding of various financial products like bank accounts, insurance products and equities and enable them to acquire a diversified portfolio of financial products in real life.	U	F	Writing assignments
CO6	Demonstrate critical thinking and problem-solving skills by applying the acquired knowledge to evaluate complex financial products.	Ap	Р	Viva Voce

<sup>\* -</sup> Remember (R), Understand (U), Apply (Ap), Analyse (An), Evaluate (E), Create (C) # - Factual Knowledge(F) Conceptual Knowledge (C) Procedural Knowledge

#### **DETAILED SYLLABUS:**

Module Module	Unit	Content	Hrs	Marks			
		Personal Financial Planning/Financial Literacy	10	20			
	Basic	s of financial planning					
	1	Meaning of financial planning and the importance of financial	1				
		planning.	1				
	2	Risk vs return (inflation risk, market risk and exchange risk).	1				
I	3	Planning for the short, medium and long term.					
	4	Introducing financial products that suit short, medium and long time horizons.	3				
	5	Short term and money market or debt instruments					
	6	Long term and asset backed investments.					
	Time	value of money					
	7	Inflation and its impact on personal financial security,					
	8	Concepts of absolute income and real income.	3				
	9 Concepts of nominal rate of interest and real rate of interest.						
	10	Principles of compounding and discounting.	2				
		The financial planning process	08	15			
	11	The fact find or taking stock ones financial situation, identifying present provisions and shortfalls.	3				
II	12	Setting SMART (specific, measurable, achievable,	2				
		realistic, time bound) financial goals.					
	13	Concept of diversification-putting your eggs into different	1				
		baskets.					
	14	Physical assets like commodities (gold, silver and other	2				
		precious metals) and properties.					
		Financial products	08	15			
	15	Savings bank accounts, current account, fixed deposits, recurring deposits. Introducing and debit cards. Modes of transfers-IMPS, NEFT, RTGS, UPI.	2				
III	16	Bonds, debentures and other debt funds.	1				
	17	Equity market products, Risks involved in equity market	3				
	17	investments. stocks, shares, equities, mutual funds, derivatives,					
		options.  NSE, BSE, OTC Exchange of India. Stock market indices,					
	18	Nifty, SENSEX, S&P, NASDAQ.	2				
		Insurance and pension products	10	20			
IV	19	Insurance as a risk management device. Life insurance,	2				
		(introduce various types of life products like term insurance,					
		endowment plans,					
		unit-linked policies (ULIPs etc.), Riders in insurance (eg. critical	2				
		illness benefit, hospitalisation benefit, permanent total disability etc.). Property and casualty insurance, health/medical insurance. Two rules of	_				
		calculating life cover-multiples of salary and the inflation rule.					

	20	The need for retirement security. Pension products. Difference between statutory pension system and contributory pension.	2	
		National Pension system and its features. Tier I and Tier II contributions in the NPS . Investment options-active choice and auto choice.		
	21	Annuities. Difference between annuities and pensions. Various types of annuities-fixed, variable and equity linked.	2	
	22	Retirement pension policies of life insurance companies. Annuity service providers (ASP). Role of IRDAI and PFRDA as regulators.	2	
		Personal Financial Planning	9	
		Discussion based on the exit of governments from pension provision.		
V		Practical Assignments to create a sample personal financial plan for an individual/ family making provisions for emergency funds, savings, insurances and retirement schemes.		
		Seminar/workshop on investor awareness with a focus on stock/equity investments.		

- 1. Lokesh Sehgal (2023). Learn and Practice Financial Planning
- 2. Nevar Theodore Malabre (2020). Financial Literacy: Understanding the Basics of Financial Investments
- 3. Purvi Kothari and Keyur Mehta (2010). Financial Investment and Financial Planning

#### **ADDITIONAL READING**

- 1. Kana Sukumaran (2024). Personal Finance: A Treatise on Financial Literacy
- 2. Introduction to Financial Planning (2017) By Indian Institute of Banking and Finance
- 3. Prasanna Chandra. Financial Management: Theory and Practice

#### **MAPPING OF COS WITH PSOS:**

	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6	PO1	PO2	PO3	PO4	PO5	PO6	PO7
CO 1	3	-	1	-	3	-	3	-	-	-	1	-	-
CO 2	-	2	2	3	2	-	2	1	3	ı	-	-	1
CO 3	-	3	2	1	1	-	1	2	-	1	-	3	1
CO 4	-	3	1	1	2	-		ı	-	ı	2	-	1
CO 5	-	1	1	2	3	-	-	-	-	-	-	-	-
CO 6	-	3	2	2	2	-	-	-	-	-	-	-	3

#### **CORRELATION LEVELS:**

Level	Correlation
-	Nil
1	Slightly / Low
2	Moderate / Medium
3	Substantial / High

#### **ASSESSMENT RUBRICS:**

- P Quiz / Assignment/ Viva Voce/ Discussion / Seminar
- Internal Exam
- Practical Assignments (20%)
- Final Exam (70%)

	Internal Exam	Quiz / Assignment/ Viva Voce/ Discussion /	Practical Assignment	End Semester Examination
		Seminar		
CO 1	✓	✓		<b>√</b>
CO 2	✓		✓	✓
CO 3	✓	✓		✓
CO 4	✓	√		✓

CO 5	✓	✓	
CO 6		<b>√</b>	

Programme	B.A. Economics Honours
Course Title	DIGITAL MARKETING AND E-COMMERCE STRATEGIES

Type of Course	Value Added Course									
Semester	IV									
Academic Level	100 – 199									
Course Details	Credit	Lecture	Tutorial	Practical	Total					
		per week	per week	per week	Hours					
	3	3	-	-	45					
Course Summary	The course equips	students to u	nderstand the	e basics of ma	arketing and					
	how effectively the	how effectively they can use digital medias to run a successful business								
	venture.									

#### **COURSE OUTCOMES (CO):**

СО	CO Statement	Cognitive Level*	Knowledge Category#	Evaluation Tools used
CO1	Understand the basic principles of marketing	U	С	Instructor- created exams / Quiz
CO2	Develop and practice the skill of planning and managing e commerce	Ap	P	Practical Assignment / Creating a sample personal financial plan
CO3	Help the students master the concept of digital marketing and provide them with necessary skills to run an online business	U	С	Seminar Presentation / Group Discussion
CO4	Understand and apply digital marketing techniques in real business world.	Ap	Р	Instructor- created exams / Home Assignments
CO5	Provide the students with an understanding of various digital platforms and marketing strategies and enable them to run successful business	U	F	Writing assignment s
CO6	Demonstrate critical thinking and problem-solving skills by applying the acquired knowledge in complex business world	Ap	Р	Viva Voce

<sup>\* -</sup> Remember (R), Understand (U), Apply (Ap), Analyse (An), Evaluate (E), Create (C) # - Factual Knowledge(F) Conceptual Knowledge (C) Procedural Knowledge (P) Metacognitive Knowledge (M)

#### **DETAILED SYLLABUS:**

		LED SYLLABUS:	1 1	
Module	Unit	Content	_	Marks
I		Basic concepts of marketing	10	20
	1	Meaning of marketing	1	
	2	Customer value	1	
	3	Customer relationship management- concept and process		
	4	Customer buying behaviour		
	5	Buyer decision process	3	
	6	Competitor analysis		
	7	New product development		
	8	Price strategies	3	
	9	Positioning strategies		
	10	Market targeting	2	
II		Introduction to Digital marketing	08	15
	11	Meaning, evolution and channels of digital marketing	3	
	12	Search Engine Optimization, Search Engine Marketing.	2	
	13	Content Marketing	1	
	14	Social media platforms and marketing	2	
III		The concept of E-Commerce	08	15
	15	Meaning and concept, E– commerce v/s Traditional Commerce	2	
	16	Importance, features & benefits of E– Commerce	1	
	17	Impacts, Challenges & Limitations of E– Commerce and	3	
		Supply chain management		
	18	Payment systems and security issues	2	
IV		Website planning	10	20
	19	Website Planning & Creation: Content Marketing Strategy, Keywords Research and Analysis	3	
	20	Web Presence and Creating content	3	
	21	Different types of display advertising	2	
	22	Google analytics	2	
v <b>V</b>		E-commerce Strategy	9	
•		<b>Discussion</b> on various social media platforms		
		<b>Practical Assignments</b> case study on the success story of any popular e-commerce provider.		

- 1. E-Commerce Strategy, Technologies and Applications, Whitley, David, Tata McGraw Hill.
- 2. Philip Kotler and Eduardo Roberto, Social Marketing: Strategies for Changing Public Behavior, The Free Press, 1989.

#### ADDITIONAL READING

1. Philip Kotler, Marc Oliver Opresnik, and Kahzon Takaoko, *Digital Marketing Management and Transformation by Innovation* (2020)Philip Kotler and Christian Sarkar, *Losing Our Democracy* (2020)

#### **MAPPING OF COS WITH PSOS:**

	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6	PO1	PO2	PO3	PO4	PO5	PO6	PO7
CO 1	3	-	-	-	3	-	3	-	-	-	1	-	-
CO 2	-	2	-	3	2	-	2	1	3	-	-	-	1
CO 3	-	3	-	1	1	-	1	2	-	-	-	3	-
CO 4	-	3	-	1	2	-		-	-	-	2	-	-
CO 5	-	-	-	2	3	-	-	-	-	-	2	-	-
CO 6	-	3	-	2	2	-	-	-	-	-	-	-	3

#### **CORRELATION LEVELS:**

Level	Correlation
-	Nil
1	Slightly / Low
2	Moderate / Medium
3	Substantial / High

#### **ASSESSMENT RUBRICS:**

- 2 Quiz / Assignment/ Viva Voce/ Discussion / Seminar
- Internal Exam
- Practical Assignments (20%)
- ? Final Exam (70%)

	Internal Exam	Quiz / Assignment/ Viva Voce/ Discussion / Seminar	Practical Assignment	End Semester Examination
CO 1	✓	✓		✓
CO 2	<b>√</b>		<b>√</b>	✓
CO 3	✓	<b>✓</b>		✓
CO 4	<b>√</b>	<b>√</b>		✓
CO 5		<b>√</b>	<b>√</b>	
CO 6			<b>√</b>	

Programme	B.A. Economics Honours								
Course Title	BIG DATA ANALYSIS IN ECONOMICS								
Type of Course	SEC								
Semester	V								
Academic Level	100 - 199								
Course Details	Credit	Lecture	Tutorial	Practical	Total				
		per week	per week	per week	Hours				
	3	3	-	-	45				
Pre-requisites	Basic Economics C	Course of 0 –	99 level						
Course Summary	The students will b	e able to ide	entify the role	e of big data i	in economic				
	theory, using big of	data for pred	liction purpo	se and make	capable for				
	helping private and	public polic	ies						

#### COURSE OUTCOMES (CO):

СО	CO Statement	Cognitive Level*	Knowledge Category#	Evaluation Tools used
CO 1	Understand the characteristics and sources of data	U	F	Instructor-created exams / Quiz
CO 2	Analyze different Motivating applications	Ap	С	Practical Assignment / Observation of Practical Skills
CO 3	Evaluate Architectures for big data collection	Е	P	Seminar Presentation / Group Discussion
CO 4	Apply Big Data for Prediction and Public Policy	Ap	P	Instructor-created exams / Home Assignments
CO 5	Create programs for big data analytics	С	M	Running programs / Viva Voce

#### DETAILED SYLLABUS:

Modul	Unit	Content	Hrs	Marks
e				
I		The Role of Economic Theory in big data	8	14
	1	Characteristics of Big data.	2	
	2	The need for Analytics and Understanding Analytics:	2	
		Impact of analytics on business; Being analytically		
		competitive; Models and algorithms in Analytics; The		
		Analytics Methodology		

<sup>\* -</sup> Remember (R), Understand (U), Apply (Ap), Analyse (An), Evaluate (E), Create (C)
# - Factual Knowledge(F) Conceptual Knowledge (C) Procedural Knowledge (P)
Metacognitive Knowledge (M)

	3	Advantages of big data in the economic research and	2					
	3	policymaking	2					
	4	Challenges and risks in big data	2					
II		Major economic data sources	9	16				
	5	Sources of big data - National and International	3					
	6	Motivating applications: web scraping, social media,	3					
	Google.							
	7	Real time data (Social media and the labor market)	3					
III		Using Big Data to Advanced Economic Theory	9	20				
	8	Tool and Tech Landscape: A review of technology used in	2					
		data storage, data processing, and data science; Popular						
		tools used in Data Science and when to use each						
	9	Using Big Data for Prediction and Public Policy	2					
	10	Architectures for big data collection, analysis, and storage.	1					
	11	Using micro data to answer macroeconomic questions	2					
	12	Finance and high frequency trading	2					
IV		Machine learning methods						
	13	Linear Regression Models and their applications	1					
	14	Logistics Regression Models and their applications	2					
	15	Time Series Forecasting	2					
		Time Series I orecasting	_					
	16	k-nearest-neighbors, classification and regression trees,	1					
		k-nearest-neighbors, classification and regression trees, random forests.  An overview of neural networks and deep learning:						
	16	k-nearest-neighbors, classification and regression trees, random forests.  An overview of neural networks and deep learning: Images, sounds, text, as sources of information.	1					
	16	k-nearest-neighbors, classification and regression trees, random forests.  An overview of neural networks and deep learning: Images, sounds, text, as sources of information.  Text mining: natural language processing, latent Dirichlet	1					
	16 17 18	k-nearest-neighbors, classification and regression trees, random forests.  An overview of neural networks and deep learning: Images, sounds, text, as sources of information.  Text mining: natural language processing, latent Dirichlet allocation, sentiment analysis.	1 1 1					
	16 17	k-nearest-neighbors, classification and regression trees, random forests.  An overview of neural networks and deep learning: Images, sounds, text, as sources of information.  Text mining: natural language processing, latent Dirichlet allocation, sentiment analysis.  Big Data Analytics with R.	1 1 1 2					
V	16 17 18	k-nearest-neighbors, classification and regression trees, random forests.  An overview of neural networks and deep learning: Images, sounds, text, as sources of information.  Text mining: natural language processing, latent Dirichlet allocation, sentiment analysis.  Big Data Analytics with R.  Dealing with Data	1 1 1					
V	16 17 18	k-nearest-neighbors, classification and regression trees, random forests.  An overview of neural networks and deep learning: Images, sounds, text, as sources of information.  Text mining: natural language processing, latent Dirichlet allocation, sentiment analysis.  Big Data Analytics with R.	1 1 1 2					

- 1. "Big Data: A Revolution That Will Transform How We Live, Work, and Think" by Vik- tor Mayer-Schönberger and Kenneth Cukier, Houghton Mifflin Harcourt, 2013
- 2. "Machine-learning Techniques in Economics: New Tools for Predicting Economic Growth" by Atin Basuchoudhary, James T. Bang, and Tinni Sen, Springer.
- 3. "Data Science for Economics and Finance: Methodologies and Applications" edited by Sergio Consoli, Diego Reforgiato Recupero, and Michaela Saisana, Springer.
- 4. Antenucci, Dolan, et al. (2014) "Using social media to measure labor market flows." Working paper no. w20010. National Bureau of Economic Research.

- 5. Athey, S. (2018). "The impact of machine learning on economics", in The Economics of Artificial Intelligence: An Agenda. University of Chicago Press.
- 6. BDS Taddy, M. (2019) Business Data Science: Combining Machine Learning and Eco-nomics to Optimize, Automate, and Accelerate Business Decisions. McGraw Hill.
- 7. Choi, Hyunyoung and Hal Varian (2009). "Predicting the present using Google Trends" Working paper.
- 8. Dave Donaldson and Adam Storeygard, The View from Above: Applications of Satellite Data in Economics, The Journal of Economic Perspectives, Fall 2016, Vol. 30, No. 4 (Fall 2016), pp. 171-198, Published by: American Economic Association.
- 9. Einav, Liran, and Jonathan D. Levin. (2013) "The data revolution and economic analy- sis." Working paper no. w19035. National Bureau of Economic Research.
- 10. Hal R. Varian, Big Data: New Tricks for Econometrics, The Journal of Economic Perspectives, Spring 2014, Vol. 28, No. 2 (Spring 2014), pp. 3-27, American Economic As-sociation
- 11. Jay Liebowitz, "Big Data and Business Analytics" Auerbach Publications, CRC press (2013)
- 12. Liran Einav and Jonathan Levin, The Data Revolution and Economic Analysis, Innovation Policy and the Economy, Vol. 14, No. 1 (January 2014), pp. 1-24, The University of Chicago Press on behalf of the The National Bureau of Economic Research
- 13. Michael Berthold, David J. Hand, "Intelligent Data Analysis", Springer, 2007.
- 14. Seema Acharya, Subhasini Chellappan, "Big Data Analytics" Wiley 2015.
- 15. Sendhil Mullainathan and Jann Spiess, Machine Learning: An Applied Econometric Ap- proach, The Journal of Economic Perspectives, Spring 2017, Vol. 31, No. 2 (Spring 2017), pp. 87-106, American Economic Association
- 16. Stephen Hawkins, Brief Answers to the Big Questions (Selected Chapters)
- 17. Yuval Harari, 21 Lessons for the 21st Century

#### MAPPING OF COS WITH PSOS:

	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6	PO1	PO2	PO3	PO4	PO5	PO6	PO7
CO 1	3	-	-	3	2	2	1	-	-	ı	ı	ı	1
CO 2	1	1	1	2	2	1	-	-	3	-	-	1	-
CO 3	1	1	1	2	2	2	-	-	-	-	2	-	-
CO 4	1	1	2		2	2	1	-	-	1	1	1	2
CO 5	3	2	2	3	3	1	ı	-	2	1	ı	ı	ı

#### **CORRELATION LEVELS:**

Level	Correlation
-	Nil
1	Slightly / Low
2	Moderate / Medium
3	Substantial / High

#### **ASSESSMENT RUBRICS:**

- Quiz / Assignment/ Viva Voce/ Discussion / Seminar
- Internal Exam

- Practical Assignments (20%)
- Pinal Exam (70%)

	Internal Exam	Quiz / Assignment/ Viva Voce/ Discussion / Seminar	Practical Assignment	End Semester Examination
CO 1	✓	✓		✓
CO 2	✓	✓	<b>√</b>	✓
CO 3	✓	✓	✓	✓
CO 4	✓	√	✓	✓
CO 5		✓	✓	
CO 6		✓	✓	

Programme	B.A. Economics Hon	ours					
Course Title	ECONOMIC RESEARCH WITH R						
Type of Course	SEC						
Semester	VI						
Academic Level	100 – 199						
Course Details	Credit	Lecture	Tutorial	Practical	Total		
		per week	per week	per week	Hours		
	3	3	-	-	45		
Course Summary	using 'R' with imp	This course provides an introductory exposure to Economics research using 'R' with imparting basic programming skills in the various functions in R, which enable the students to apply various functions					
	learned in Economic		2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Tr-J (MI)			

### COURSE OUTCOMES (CO):

СО	CO Statement	Cognitive Level*	Knowledge Category#	Evaluation Tools used
CO 1	Understand b asic programming in R.	U	Ĉ	Instructor-created exams / Quiz
CO 2	Apply various loops and use them appropriately	Ap	Р	Practical Assignment /Case Studies in the Indian context/Seminar
CO 3	Apply various data analysis tools appropriately.	U	Р	Seminar Presentation / Group Discussion
CO 4	Apply var ious functions/models in Economic Research	Ap	C	Instructor-created exams / Home Assignments/Cases in the Indian context
CO 5	Design various models and use it in the data analysis to address complex economic challenges in the contemporary world.	Ap	Р	Writing assignments/Viva Voce/ Seminar

<sup># -</sup> Factual Knowledge(F) Conceptual Knowledge (C) Procedural Knowledge (P)
Metacognitive Knowledge (M)

Modul	Uni	Content	Hrs	Marks
e	t			
I		Introduction to R and R studio.	7	10
	1	Basics of R programming	1	
	2	R Markdown files	2	
	3	Primitive Object Types: Vectors, List	2	
	4	Matrices, Arrays, Factors, Data frames.	2	
II		Loops in R and Functions in R.	6	10
	5	if, else, while and for loops.	2	
	6	apply () class functions	2	
	7	Writing your own function	2	
III		Data management with Tidyverse	12	29
	8	Importing and exporting data	2	
	9	Introduction to tidyverse and tidy workflow	2	
	11	Data extraction	2	
	12	Data cleaning	1	
	13	Data formatting and wrangling	2	
	14	Creating summary statistics tables	1	
	15	Basic data analysis using tidyverse	2	
IV	Data	Visualisation and Basics of Plotting in R	11	21
	16	Creating plots with base R functions.	1	
	17	Introduction to ggplot. Data visualization using ggplot2	1	
	18	Linear models - Generic functions for extracting model information - Linear (Multiple Regression) Models	3	
	19	The (Model Formula in Straight Line Regression) - Analysis of variance (ANOVA) and ANOVA tables	6	
V		Data models in Economics	9	
	Ţ	Use Various models learned in the above modules		

1. Zamora Saiz, A., Quesada González, C.,& Mondéjar Ruiz, D. (2020).

<sup>\* -</sup> Remember (R), Understand (U), Apply (Ap), Analyse (An), Evaluate (E), Create (C)

Introduction to R. An Introduction to Data Analysis in R: Hands-on Coding, Data Mining, Visualization and Statistics from Scratch, 9-67.

2. Hafner, S. (2019). An Introduction to R for Beginners. (www.researchgate.net/publication/325170649 An Introduction to R for Beginners).

3. <a href="https://rstudio-education.github.io/hopr/preface.html">https://rstudio-education.github.io/hopr/preface.html</a>

#### 4. <a href="https://r4ds.had.c">https://r4ds.had.c</a>

## o.nz/ ADDITIONAL READINGS

- 1. Maindonald, J., & Braun, J. (2006). *Data analysis and graphics using R: an example-based approach* (Vol. 10). Cambridge University Press.
- 2. www.cran.r-project.org.

#### MAPPING OF COS WITH PSOS:

	PSO1	PSO 2	PSO3	PSO4	PSO5	PSO6	PO1	PO2	PO3	PO4	PO5	PO6	PO7
CO 1	3	-	-	-	1	-	2	-	-	2	-	-	1
CO 2	-	3	-	1	2	-	2	-	2	2	-	-	1
CO 3	3	-	-	1	-	-	1	-	2	2	-	-	1
CO 4	-	3	1	2	3	-	1	-	2	2	-	ı	1
CO 5	3	-	-	-	2	1	1	1	3	1	_	-	2

#### **CORRELATION LEVELS:**

Level	Correlation
-	Nil
1	Slightly / Low
2	Moderate / Medium
3	Substantial / High

#### **ASSESSMENT RUBRICS:**

- P Quiz / Assignment/ Viva Voce/ Discussion / Seminar
- Internal Exam
- Practical Assignments (20%)
- ☑ Final Exam (70%)

	Internal Exam	Quiz / Assignment/ Viva Voce/ Discussion / Seminar	Practical Assignment	End Semester Examination
CO 1	✓	<b>✓</b>		<b>✓</b>
CO 2	✓		✓	<b>√</b>
CO 3	✓	<b>✓</b>		✓
CO 4	<b>√</b>	<b>√</b>		<b>√</b>
CO 5		✓	✓	

# B.A. ECONOMETRICS AND DATA MANAGEMENT HONOURS

(MINOR COURSES)

## SYLLABUS w.e.f. 2024 admission

#### **Minor (QUANTITATIVE ECONOMICS)**

(The minor courses given below should not be offered to students who have taken Econometrics and Data Management as the major discipline. However, these two groups of minor courses may be taken by major students in Economics/Development Economics/Economics with Foreign Trade/Economics with Islamic Finance and major students from other disciplines which are not specified here.)

(Title of the Minor: **QUANTITATIVE ECONOMICS**)

Group No.	Sl. No.	Course Code	Title	Sem este r	Total Hrs	Hrs/ Wee k	Cr edi ts	Inte rnal	Marks Exte rnal	Total
1			Basic Quantitative Techniques for Economics							
	1	EDM1MN 103	Quantitative Techniques for Economic Analysis I	1	60	4	4	30	70	100

	2	EDM2MN 103	Quantitative Techniques for Economic Analysis II	2	60	4	4	30	70	100
	3	EDM3MN 203	Quantitative Techniques for Economic Analysis III	3	60	4	4	30	70	100
	4	EDM8MN 303	Quantitative Techniques for Economic Analysis IV	8	60	4	4	30	70	100
2			Elementary Tools f	or Eco	nomic I	Oata An	alysis			
	1	EDM1MN 104	Elementary Tools for Economic Data Analysis I	1	60	4	4	30	70	100
	2									
	_	EDM2MN 104	Elementary Tools for Economic Data Analysis II	2	60	4	4	30	70	100
	3		1	3	60	4	4	30	70	100

Quantitative economics is a specialized field that focuses on the application of mathematical and statistical techniques to analyze economic phenomena and solve economic problems. Its significance and career prospects are noteworthy due to the increasing reliance on data-driven decision-making across various sectors. Quantitative economics plays a key role in government agencies, policy analysts evaluate the potential economic impact of proposed legislation and policies. They use statistical analysis to predict outcomes and assess the effectiveness of current policies. Quantitative economics has extensive real-world applications, making it a valuable field of study with diverse career prospects. Professionals in this field are equipped with the analytical tools and quantitative skills needed to tackle complex economic issues across various industries, including finance, consulting, government, academia, international organizations, and the tech industry. The ability to apply rigorous quantitative methods to real-world problems ensures that quantitative economists remain in high demand and are well-prepared to make significant contributions in their chosen careers.

Minor Courses (Quantitative Economics)

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Programme	B.A. Econometrics	B.A. Econometrics and Data Management Honours									
Course Title	QUANTITATIVE	QUANTITATIVE TECHNIQUES FOR ECONOMIC ANALYSIS I									
Type of Course	Minor	Minor									
Semester	I										
Academic Level	100-199	100-199									
Course Details	Credit	Lecture	Tutorial	Practical	Total Hours						
		per week	per week	per week							
	4	4	-	-	60						
Pre-requisites	Basic Economics an	nd Mathemat	ics Course								
Course Summary		This course covers fundamental mathematical skills essential for comprehending various economic terminologies and solving associated problems.									

### COURSE OUTCOMES (CO):

CO	CO Statement	Cognitive	Knowledge	<b>Evaluation Tools</b>
		Level*	Category#	used
CO1	Understand the meaning and significance of mathematical terms commonly used in economics, like averages, ratios, and percentages	U	С	Instructor-created exams / Quiz/ Assignments
CO2	Analyse graphical representations of economic data.	An	С	Instructor-created exams / Assignment
CO3	Evaluate the economic problems using mathematical methods	E	С	Instructor-created exams /Seminar Presentation / Group Discussion
CO4	Apply mathematical models to analyze real-world economic situations	An	С	Instructor-created exams / Home Assignments
CO5	Critically evaluate the assumptions underlying mathematical models and assess their applicability to specific economic situations.	An	Р	Writing assignments/ Seminar/ presentation/ Group activities

<sup>\* -</sup> Remember (R), Understand (U), Apply (Ap), Analyse (An), Evaluate (E), Create (C) # - Factual Knowledge(F) Conceptual Knowledge (C) Procedural Knowledge (P) Metacognitive Knowledge (M)

#### DETAILED SYLLABUS:

Module	Unit	Content	Hrs	Marks		
I		Introduction	6	18		
	1	Meaning and importance of mathematical economics	2			
	2	Nature of mathematical economics-mathematical v/s nonmathematical	2			
		economics- mathematical economics versus econometrics				
	3	Ingredients of mathematical model-variables constants and parameters-	2			
		equations and identities				
II		Functions and their diagrammatic representation	14	22		
	4	Definition and examples of functions	2			
	5	Classifications of functions	2			
	6	The equation of a straight line-slope intercept form- slope point form-	2			
		two point form- Parallel and Perpendicular lines				
	7	The graph of functions- rectangular co-ordinate system	2			
	8	Parabola- Rectangular hyperbola	2			
	9	Solution of equations in one variable	2			
	10 Simultaneous equations in two variables					
III		17	32			
	11	Demand functions- demand schedule- demand curve -nature of	3			
		demand curves and price elasticity of demand				
	12	Supply function- supply schedule- supply curve	2			
	13	Total revenue functions and curves- Marginal Revenue curve-Average	2			
		revenue curve				
	14	Cost functions -Total, Marginal and average cost curves	2			
	15	Utility functions- and curves	2			
	16	Indifference curves for consumer goods	2			
	17	Consumption function, Saving function, investment function &Curves	2			
IV		Equilibrium analysis in economics	11	26		
	18	The meaning of equilibrium	2			
	19	Partial Market equilibrium- a linear model	2			

	20	Partial market equilibrium: A nonlinear model- Quadratic equation versus quadratic function- Quadratic formula-	3	
	21	General market equilibrium- two commodity market model- n commodity case	2	
	22	2		
V		12		
	1			
	2			
	3	Draw graphs and diagrams using excel		

#### **REFERENCE:**

- 1. Edward T. Dowling, *Introduction to Mathematical Economics* (3rd Edition), Schaum's Outline Series, McGRAW-HILL
- 2. Alpha C Chiang: Fundamental Methods of Mathematical Economics, 2nd Ed. -Inter National Student Edition, Mc Grawhill

#### **ADDITIONAL READINGS**

- 1. Harrison, Michael, and Patrick Waldron. *Mathematics for economics and finance*. Routledge, 2011.
- 2. Taro Yamane: Statistics An Introductory Analysis, Harper & Row, Edition 3.Geoff Renshaw, Maths for economics, 2nd edition, Oxford University Press.
- 3. QaziZameeruddin, Vijay K Khanna, S K Bhambri, Business Mathematics, Second Edition, Vikas Publishing House, New Delhi.
- 4. Sydsaeter, Knut. Mathematics for economic analysis. Pearson Education India, 2013.
- 5. Cvitanic, Jaksa, and Fernando Zapatero. *Introduction to the economics and mathematics of financial markets*. MIT press, 2004.
- 6. S.P. Gupta: Statistical Methods, Sultan Chand and Sons, New Delhi.

### MAPPING OF COS WITH PSOS:

	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6	PO1	PO2	PO3	PO4	PO5	PO6	PO7
CO 1	3	1	ı	-	ı	-	2	ı	1	1	1	ı	2
CO 2	1	3	1	1	1	-	-	1	3	-	1	1	-
CO 3	1	3	-	1	-	-	-	-	3	-	-	-	-
CO 4	1	3	1	2	1	-	-	-	1	-	-	-	3
CO 5	1	2	-	3	-	1	-	-	-	-	2	-	3

### **CORRELATION LEVELS:**

Level	Correlation
-	Nil
1	Slightly / Low
2	Moderate / Medium
3	Substantial / High

### **ASSESSMENT RUBRICS:**

- Quiz / Assignment/ Viva Voce/ Discussion / Seminar /Survey
- Internal Exam
- Assignments
- Final Exam (70%)

	Internal Exam	Quiz / Assignment/ Viva Voce/ Discussion / Seminar	Assignment	End Semester Examination
CO 1	✓	✓		✓
CO 2	<b>√</b>	✓	<b>√</b>	<b>√</b>
CO 3	<b>√</b>	✓		✓
CO 4	✓	✓	<b>√</b>	<b>√</b>
CO 5		✓	<b>√</b>	

Programme	B.A. Econo	.A. Econometrics and Data Management Honours									
Course Title	QUANTIT	UANTITATIVE TECHNIQUES FOR ECONOMIC ANALYSIS II									
Type of Course	Minor	linor									
Semester	II										
Academic Level	100-199	)0-199									
Course Details	Credit	Lecture per week	Tutorial	Practical	Total Hours						
			per week	per week							
	4	4	-	-	60						
Pre-requisites	Basic Econ	omics and Mathematic	cs Course								
Course	This course	e aims to equip studen	ts with fundame	ental mathematic	cal skills						
Summary	essential										
	for comprel	hending various econo	omic terminolog	ies and solving	associated						
	problems.										

# COURSE OUTCOMES (CO):

CO	CO Statement	Cognitive	Knowledge	<b>Evaluation Tools</b>
		Level*	Category#	used
CO1	Understand the meaning and	U	C	Instructor-created
	significance of mathematical terms			exams / Quiz/
	commonly used in economics			Assignments
CO2	Analyse economic data	An	C	Instructor-created
				exams /Practical
				Assignment
CO3	Evaluate the economic problems	Е	C	Instructor-created
	using mathematical methods			exams /Seminar
				Presentation / Group
				Discussion
CO4	Apply mathematical models to	An	C	Instructor-created
	analyze real-world economic			exams / Home
	situations			Assignments
CO5	Critically evaluate the assumptions	An	P	Writing
	underlying mathematical models			assignments/
	and assess their applicability to			Seminar/
	specific economic situations.			presentation/ Group
				activities

- \* Remember (R), Understand (U), Apply (Ap), Analyse (An), Evaluate (E), Create (C)
- # Factual Knowledge(F) Conceptual Knowledge (C) Procedural Knowledge (P) Metacognitive Knowledge (M)

### DETAILED SYLLABUS:

Module	Unit	Content	Hrs	Marks
I		Exponential and logarithmic functions	14	20
	1	Exponential functions-	3	1
	2	Rule of exponents	2	
	3	Logarithmic functions	2	1
	4	Rules of logarithms	2	
	5	Logarithmic transformation of non-linear functions	2	
	6	Common logarithm and natural logarithm – characteristic – mantissa- antilogarithm	3	-
II		Financial Mathematics	10	20
	7	Arithmetic and geometric sequence and series	2	•
	8	Simple interest, compound interest and annual percentage rates	2	1
	9	Net present value and internal rate of return	2	•
	10	Annuities, debt repayments, sinking funds	2	•
	11	The relationship between interest rates and the price of bonds	2	•
III		Derivative and Rules of differentiation	8	23
	12	Limits and continuity	2	1
	13	Rules of differentiation	2	1
	14	Higher order derivatives	2	1
	15	Implicit differentiation	2	
IV		Uses of derivatives in economics	16	35
	16	Increasing and Decreasing Functions	2	1
	17	Concavity and Convexity	2	1
	18	Relative Extreme-Inflection Points	2	1
	19	Marginal concepts	2	1
	20	Optimization of Functions-conditions	2	1
	21	Successive derivative test for optimisation	3	1
	22	Relationship among total average and marginal concepts	3	1

V		Mathematical application on economic theories	12	
	1	Seminar on Production and function		
	2	Discussion on importance of differentiation in economics		

#### REFERENCE:

- Edward T. Dowling, Introduction to Mathematical Economics (3rd Edition), Schaum's Outline Series, McGRAW-HILL
- 2. Alpha C Chiang: Fundamental Methods of Mathematical Economics, 2nd Ed. -Inter National Student Edition, Mc Grawhill
- 3. Renshaw, G. Maths for Economics (2nd Edition, Oxford University Press, 2009)
- 4. Essential Mathematics for Economics and Business, Teresa Bradley and Paul Patton, Revised by Teresa Bradley, Wiley Student Edition

#### ADDITIONAL READINGS

- 1. Harrison, Michael, and Patrick Waldron. Mathematics for economics and finance. Routledge, 2011.
- 2. Taro Yamane: Statistics An Introductory Analysis, Harper & Row, Edition 3.Geoff Renshaw, Maths for economics, 2nd edition, Oxford University Press.
- 3. QaziZameeruddin, Vijay K Khanna, S K Bhambri, Business Mathematics, Second Edition, Vikas Publishing House, New Delhi.
- 4. Sydsaeter, Knut. *Mathematics for economic analysis*. Pearson Education India, 2013.
- 5. Cvitanic, Jaksa, and Fernando Zapatero. *Introduction to the economics and mathematics of financial markets*. MIT press, 2004.

#### MAPPING OF COS WITH PSOS:

	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6	PO1	PO2	PO3	PO4	PO5	PO6	PO7
CO 1	3	1	1	1	1	-	2	1	1	1	1	1	2
CO 2	1	3	1	1	1	-	1	1	3	1	1	1	1
CO 3	1	3	-	1	-	-	-	-	3	-	-	1	-
CO 4	1	3	1	2	1	-	-	-	1	-	-	_	3
CO 5	-	2	1	3	-	1	-	-	-	-	2	-	3

### **CORRELATION LEVELS:**

Level	Correlation
-	Nil
1	Slightly / Low
2	Moderate / Medium
3	Substantial / High

### **ASSESSMENT RUBRICS:**

- Quiz / Assignment/ Viva Voce/ Discussion / Seminar /Survey
- Internal Exam
- Practical Assignments
- Final Exam (70%)

	Internal Exam	Quiz / Assignment/ Viva Voce/ Discussion / Seminar	Practical Assignment	End Semester Examination
CO 1	✓	✓		✓
CO 2	✓	✓	✓	✓
CO 3	✓	✓		✓
CO 4	✓	✓	✓	✓
CO 5		✓	✓	

Programme	B.A. Econometrics and Data Management Honours							
Course Title	QUANTITATIVE TECHNIQUES FOR ECONOMIC ANALYSIS III							
Type of Course	Minor							
Semester	III							
Academic Level	200-299							
Course Details	Credit	Lecture	Tutorial	Practical	Total Hours			
		per week	per week	per week				
	4	4	-	-	60			
Pre-requisites	Economics and Math	ematics cour	rse of 100 – 1	99 level				
Course Summary	This course aims to e essential for compreh associated problems.							

# Course Outcomes (CO):

CO	CO Statement	Cognitive	Knowledge	<b>Evaluation Tools</b>
		Level*	Category#	used
CO1	Students will understand the interdependencies among different sectors of the economy and how inputoutput tables capture the flow of goods, services, and payments between sectors.	U	С	Instructor-created exams / Quiz/ Assignments
CO2	Students will understand the concept of integration and its applications in calculating areas under curves, representing cumulative quantities such as total revenue, total cost, and consumer surplus.	An	С	Instructor-created exams /Practical Assignment
CO3	Students will be able to formulate real-world decision-making problems as linear programming models, identifying decision variables, objective functions, and constraints.	E	С	Instructor-created exams /Seminar Presentation / Group Discussion
CO4	Students will apply calculus in understanding their economic interpretation and implications for welfare analysis	An	С	Instructor-created exams / Home Assignments

CO5	Critically evaluate the assumptions	An	P	Writing
	underlying mathematical models and			assignments/
	assess their applicability to specific			Seminar/
	economic situations.			

											presentation/
											Group activities
D	- 1	(D) I	T 1	 1 (TT)	1 / 4	\ A	1	<i>(</i> )	\ D	1 .	G (0)

<sup>\* -</sup> Remember (R), Understand (U), Apply (Ap), Analyse (An), Evaluate (E), Create (C)

### DETAILED SYLLABUS:

Module	Unit	Content	Hrs	Marks
I		Calculus of multi variable functions	12	25
	1	Functions of Several Variables and Partial Derivatives	2	
	2	Rules of Partial Differentiation	2	
	3	Higher-Order Partial Derivatives	2	
	4	Optimization of Multivariable Functions -	2	
	5	Constrained Optimization with Lagrange Multipliers -Significance of the Lagrange Multiplier	2	
	6	Concept of Total and Partial Differentials- Concept of Total Derivatives	2	
II		Calculus of multi variable functions in economics	15	25
	7	Multivariable functions in economics- Marginal Utility-Marginal Productivity.	2	
	8	Income Determination-Multipliers and Comparative Statics-	2	
	9	Income and Cross Price Elasticities of Demand.	2	
	10	Optimization of Multivariable Functions in Economics	2	
	11	Constrained Optimization of Multivariable functions in economics	3	
	12	Cobb Douglass production function- properties	2	
	13	CES production function -properties	2	
III		Linear Programming -an introduction	8	18
	14	Definition and scope of linear programming	2	

<sup># -</sup> Factual Knowledge(F) Conceptual Knowledge (C) Procedural Knowledge (P) Metacognitive Knowledge (M)

	15	Basic terminology: decision variables, objective function, constraints, feasible region.	2	
	16	Formulation of Linear Programming Problems-	2	
	17	Examples of LPP formulations in economic contexts (e.g., production planning, resource allocation).	2	
IV		Method of LPP	13	30
	18	Graphical solution	2	
	19	Simplex Method- Maximization and minimization (simple problems only)	4	
	20	Concept of duality and dual problems.	2	
	21	Economic interpretation of dual variables	2	
	22	Dual simplex method	3	
V		Mathematical applications on economic theories	12	
	1	Assignment on economic theories		
	2	Seminars		

#### **REFERENCE:**

- 1. Edward T. Dowling, Introduction to Mathematical Economics (3rd Edition), Schaum's Outline Series, McGRAW-HILL
- 2. Alpha C Chiang: Fundamental Methods of Mathematical Economics, 2nd Ed. -Inter National Student Edition, Mc Grawhill
- 3. Agarwal NP and Sonia Agarwal, Operations Research and Quantitative Techniques, RBS A Publishers, New Delhi, 2009
- 4. Anand Sharma, Operations Research, Himalayan Publishing House, 2014, Mumbai

#### ADDITIONAL READINGS

- 1. Harrison, Michael, and Patrick Waldron. *Mathematics for economics and finance*. Routledge, 2011.
- 2. Taro Yamane: Statistics An Introductory Analysis, Harper & Row, Edition 3.Geoff Renshaw, Maths for economics, 2nd edition, Oxford University Press.
- 3. QaziZameeruddin, Vijay K Khanna, S K Bhambri, Business Mathematics, Second Edition, Vikas Publishing House, New Delhi.
- 4. Sydsaeter, Knut. Mathematics for economic analysis. Pearson Education India, 2013.
- 5. Cvitanic, Jaksa, and Fernando Zapatero. *Introduction to the economics and mathematics of financial markets*. MIT press, 2004.
- 6. S.P. Gupta: Statistical Methods, Sultan Chand and Sons, New Delhi.

### MAPPING OF COS WITH PSOS:

	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6	PO1	PO2	PO3	PO4	PO5	PO6	PO7-
CO 1	3	1	-	-	-	-	2	-	-	-	1	-	-
CO 2	1	3	-	1	-	-	2	-	3	-	-	-	1
CO 3	-	1	3	1	2	-	1	2	1	1	1	3	-
CO 4	1	-	1	2	-	3		-	-	-	2	-	3
CO 5	1	2	-	3	-	2	-	-	-	-	2	-	3

### **CORRELATION LEVELS:**

Level	Correlation
-	Nil
1	Slightly / Low
2	Moderate / Medium
3	Substantial / High

### **ASSESSMENT RUBRICS:**

- Quiz / Assignment/ Viva Voce/ Discussion / Seminar /Survey
- Internal Exam
- Practical Assignments
- Final Exam (70%)

	Internal Exam	Quiz / Assignment/ Viva Voce/ Discussion / Seminar	Practical Assignment	End Semester Examination
CO 1	✓	✓		✓
CO 2	✓	✓	✓	✓
CO 3	✓	✓		✓
CO 4	✓	✓	<b>√</b>	✓
CO 5		<b>√</b>	<b>√</b>	

Programme	B.A. Econometrics and Data Management Honours							
Course Title	QUANTITATIVE TECHNIQUES FOR ECONOMIC ANALYSIS IV							
Type of Course	Minor							
Semester	VIII							
Academic Level	300 – 399	300 – 399						
Course Details	Credit	Lecture per week	Tutorial per week	Practical per week	Total Hours			
	4	4	-	-	60			
Pre-requisites	Quantitative Econom	ics course of	200 – 299 le	evel				
Course Summary	This course aims to equip students with a comprehensive understanding of economic principles, analytical skills for interpreting real-world data, and the ability to assess and propose solutions to complex economic issues in various sectors.							

# COURSE OUTCOMES (CO):

CO	CO Statement	Cognitive	Knowledge	<b>Evaluation Tools</b>
		Level*	Category#	used
CO1	Students will recall and demonstrate understanding of key mathematical concepts used in economics, such as calculus, linear algebra, and optimization techniques.	U	С	Instructor-created exams / Quiz/ Assignments
CO2	Students will apply mathematical tools to solve economic problems, including optimization problems, equilibrium analysis, and dynamic economic modelling.	Ap	С	Instructor-created exams /Practical Assignment
CO3	Students will analyze economic phenomena using mathematical models, including evaluating the effects of policy changes, identifying trade-offs, and assessing the stability and efficiency of economic systems	An	С	Instructor-created exams /Seminar Presentation / Group Discussion

CO4	Students will critically evaluate the	E	C	Instructor-created
	strengths and limitations of mathematical			exams / Home
	approaches in economics, including			Assignments
	considering assumptions, interpreting			
	model results, and assessing the relevance			
	of mathematical techniques to real-world			
	economic issues.			

CO5	Critically evaluate the assumptions	An	P	Writing
	underlying mathematical models and			assignments/
	assess their applicability to specific			Seminar/
	economic situations.			presentation/ Group
				activities

<sup>\* -</sup> Remember (R), Understand (U), Apply (Ap), Analyse (An), Evaluate (E), Create (C)

### DETAILED SYLLABUS:

Module	Unit	Content	Hrs	Marks	
I		Theory of consumer behaviour	16	30	
	1	Basic concepts- Utility function-indifference curve-MRS	2		
	2 Utility maximisation-First and second order conditions-the choice of a utility index-two special cases				
	3 Demand function- compensated demand function- demand curve-price and income elasticities of demand				
	4 Substitution and income effect-The Slutsky equation- direct effects- cross effects-substitutes and complements				
	5	Linear expenditure system	1		
	6	Separable and additive utility functions-	2		
	7	Homogenous and homothetic utility functions	2		
	8	Indirect utility functions and duality theorem	2		
	9	Theory of revealed preference	1		
II		Theory of production	10	120	
	10	Production Function – Producers equilibrium – derivation of input demand functions	2		
	11	Cobb-	4		
		Douglas production function - CES production function -VES production function- Translog production.			

<sup>#</sup> - Factual Knowledge (F) Conceptual Knowledge (C) Procedural Knowledge (P) Metacognitive Knowledge (M)

	12	Cost function: Derivation of cost as a function of output-Duality - Shepherd's lemma-	2	
	13	Technological progress and production function.	2	
III		14	28	
		Mathematical treatment of market equilibrium		

	15	Profit maximisation under monopoly- price discrimination under monopoly	3	
	Multi-plant monopolist-multiple product monopolist- taxation and monopoly output- revenue maximizing monopolist		3	
	17	Duopoly and oligopoly: Homogenous product quasi competitive solution-The Cournot and stackleberg solution	4	
	18	Duopoly and oligopoly: Differentiated product- Market shares solution- kinked demand curve solution	2	
IV	Optimisation over time		8	20
	19	Basic concepts- Bond market- market rate of reurn-discount rate and present value	2	
	20	Multi period consumption	2	
	21	Investment theory of a firm	2	
	22	Interest rate determination	2	
V		Structure of Market Economy	12	
	1	Discussion on the characteristics of different types of market		
	2	Assignment on monopolistic competition		
	3	Cartels and price leadership		

#### REFERENCE:

- 1. J.M Henderson and R.E Quandt (1980): Microeconomic Theory: A Mathematical Approach-McGraw Hill International Ltd.
- 2. Edward T. Dowling, Introduction to Mathematical Economics (3rd Edition), Schaum's Outline Series, McGRAW-HILL
- 3. Alpha C Chiang: Fundamental Methods of Mathematical Economics, 2nd Ed. -Inter National Student Edition, Mc Grawhill

#### **ADDITIONAL READINGS**

- 1. Harrison, Michael, and Patrick Waldron. *Mathematics for economics and finance*. Routledge, 2011
- 2. Taro Yamane: Statistics An Introductory Analysis, Harper & Row, Edition 3.Geoff Renshaw, Maths for economics, 2nd edition, Oxford University Press.
- **3.** QaziZameeruddin, Vijay K Khanna, S K Bhambri, Business Mathematics, Second Edition, Vikas Publishing House, New Delhi.
- 4. Sydsaeter, Knut. Mathematics for economic analysis. Pearson Education India, 2013.
- 5. Cvitanic, Jaksa, and Fernando Zapatero. *Introduction to the economics and mathematics of financial markets*. MIT press, 2004.

6. S.P. Gupta: Statistical Methods, Sultan Chand and Sons, New Delhi.

#### MAPPING OF COS WITH PSOS:

	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6	PO1	PO2	PO3	PO4	PO5	PO6	PO7-
CO 1	3	1	ı	-	ı	1	3	1	1	1	2	1	-
CO 2	1	3	1	1	1	1	1	1	3	ı	1	ı	1
CO 3	-	3	-	1	-	-	1	2	-	-	-	3	-
CO 4	2	-	1		2	3		-	-	-	2	-	3
CO 5	1	2	-	-	3	2	-	-	-	-	2	-	3

#### **CORRELATION LEVELS:**

Level	Correlation
-	Nil
1	Slightly / Low
2	Moderate / Medium
3	Substantial / High

#### **ASSESSMENT RUBRICS:**

- Quiz / Assignment/ Viva Voce/ Discussion / Seminar /Survey
- Internal Exam
- Practical Assignments
- Final Exam (70%)

	Internal Exam	Quiz / Assignment/ Viva Voce/ Discussion / Seminar	Practical Assignment	End Semester Examination
CO 1	✓	✓		✓
CO 2	✓	✓	✓	✓
CO 3	✓	✓		✓
CO 4	✓	✓	✓	✓
CO 5		✓	✓	

Programme	B.A. Econometrics and Data Management Honours							
Course Title	ELEMENTARY TOOLS FOR ECONOMIC DATA ANALYSIS 1							
Type of Course	Minor	Minor						
Semester	Ι	I						
Academic Level	100 - 199	100 - 199						
Course Details	Credit	Lecture	Tutorial	Practical	Total			
		per week	per week	per week	Hours			
	4	4	-	-	60			
Pre-requisites	Basic Economics and Statistics Course of 0 – 99 level							
Course Summary	This course explores important issues related to information collection methods, arrangement of information and different technique of information presentation.							

# COURSE OUTCOMES (CO):

CO	CO Statement	Cognitive	Knowledge	<b>Evaluation Tools</b>
		Level*	Category#	used
CO1	Understand the principles behind different data	U	C	Instructor-
	collection techniques. Compare and contrast			created exams /
	various classification algorithms.			Group
				Discussion.
CO2	Demonstrate the use of different data collection	Ap	F	Instructor-
	tools and techniques in real-world scenarios.			created exams/
	Implement data classification algorithms on			Seminars/
	sample datasets. Solve problems			Projects
	related to data collection and classification using			
	appropriate methods.			
CO3	Evaluate the strengths and weaknesses of	An	C	Seminar
	different data collection methods and sampling			Presentation /
	methods. Makes the students able to assess the			Group Discussion
	performance of classification			
	algorithms in terms of accuracy and efficiency.			
CO4	Apply data collection and classification	Ap	C	Instructor-
	techniques to real-world problems in diverse			created exams /
	domains such as healthcare, finance, or			Home
	marketing. Develop a project that involves			Assignments
	collecting and classifying data to solve a			
	practical issue.			
CO5	Develop a Design and to implement a	С	F	Writing
	comprehensive data collection and			assignments/
	classification strategy for a complex problem.			Presentations

<sup>\* -</sup> Remember (R), Understand (U), Apply (Ap), Analyse (An), Evaluate (E), Create (C)

<sup># -</sup> Factual Knowledge(F) Conceptual Knowledge (C) Procedural Knowledge (P) Metacognitiv Knowledge (M)

### DETAILED SYLLABUS:

Module Module	Unit	Content	Hrs	Marks
I		Economic Data	8	15
	1	What is Economic Data? Usages of Economic Data.	2	
	2	Types and Features of Economic Data- Primary and Secondary Data	1	
	3	Sources of Economic Data.	1	
	4	Methods of Data Collection-Census and Sample survey	2	
	5	Planning the survey-Stages	2	
II		Sampling and Sample Designs	14	29
	6	Theoretical Basis of Sampling-Law of Statistical regularity, law of Inertia of large numbers	2	
	7	Method of sampling- Probability and Non probability sampling	2	
	8	Probability sampling methods-Simple Random Sampling, Stratified random sampling- proportionate and Dis proportionate stratified sampling, systematic sampling	4	
	9	Non probability sampling -Judgement sampling, convenience sampling, quota sampling	2	
	10	Determination of sample size	2	
	11	Merits and Limitations of Sampling	1	
	12	Sampling and Non Sampling Errors	1	
III		Arrangements of Data	10	20
	13	Need for arranging Data	1	
	14	Types of Data Classification-Geographical, Chronological, Quantitative and Qualitative.	3	
	15	Construction of Frequency Distribution- Discrete and Continuous Frequency distribution	6	
IV		Data presentation methods	16	34
	16	Tables- Simple and Complex tables	2	
	17	Diagrams-Bar Diagrams- Pie Diagrams-Three Dimensional diagrams-	2	
	18	Choice of a suitable diagram	1	
	19	Graphs-graphs of time series- Two scale graphs-Range chart- Band graph- Semi logarithmic Line graphs	4	

	20	Arithmetic and Ratio scale Graph	1	
	21	Graphs of frequency Distribution- Frequency polygon- frequency curve- histogram-ogives- less than and more than ogives.	5	
	22	Limitations of Diagrams and Graphs	1	
V		Questionnaire Preparation	12	
		Assignments on preparing questionnaires related to a relevant Economic phenomenon.		

### References

- 1. S.C. Gupta., *Fundamentals of Statistics*. Mumbai: Himalaya Publishing Company. (Module 1,2,3 and 4)
- 2. S.P.Gupta. Statistical Methods, New Delhi: Sulthan Chand & Sons .(Module 1,2,3 and 4)

# **Additional Readings**

1. Anderson, Sweeny, & Williams. (n.d.). *Statistics for business and Economics*. Thompson Education.

#### MAPPING OF COS WITH PSOS:

	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6	PO1	PO2	PO3	PO4	PO5	PO6	PO7
CO 1	3	1	1	1	ı	ı	3	1	-	1	1	1	2
CO 2	-	3	ı	1	2	-	2	1	2	1	2	ı	
CO 3	3	1	1	1	1	1	1	1	-	1	1	1	1
CO 4	-	3	1	2	3	-	1	-	-	1	-	-	1
CO 5	3	1	-	1	2	3	1	1	-	1	2	1	2

#### **CORRELATION LEVELS:**

Level	Correlation
-	Nil
1	Slightly / Low
2	Moderate / Medium
3	Substantial / High

### **ASSESSMENT RUBRICS:**

- Quiz / Assignment/ Viva Voce/ Discussion / Seminar
- Internal Exam
- Field work and project report (20%)
- Final Exam (70%)

	Internal Exam	Quiz / Assignment/ Viva Voce/ Discussion / Seminar	Field work- project	End Semester Examination
CO 1	✓	✓		<b>✓</b>
CO 2	✓		✓	✓
CO 3	✓	✓		✓
CO 4	✓	<b>√</b>		<b>√</b>
CO 5		<b>√</b>	<b>√</b>	

Programme	B.A. Econometrics and Data Management Honours								
Course Title	ELEMENTARY TOOLS FOR ECONOMIC DATA ANALYSIS II								
Type of Course	Minor	Minor							
Semester	II								
Academic Level	100-199	100-199							
Course Details	Credit	Lecture	Tutorial	Practical	Total				
		per week	per week	per week	Hours				
	4	4	-	-	60				
Pre-requisites	Basic Economics and	Mathematic	es course of 0	– 99 level					
Course Summary	This course explores	s important i	ssues related	to different	measures of				
	Central tendency, Dispersion, Skewness, Kurtosis and Moments. The								
	course provides the	•		e and timely	use of the				
	descriptive statistics	in Economic	S.						

# COURSE OUTCOMES (CO):

CO	CO Statement	Cognitiv	Knowledge	<b>Evaluation Tools used</b>
		e	Category#	
		Level*		
CO1	Understand the different, statistical measures commonly used in data analysis.	U	С	Instructor-created exams / Group Discussion.
CO2	Apply various measures of central tendency, dispersion, skewness, kurtosis, and moments to analyze and interpret economic data effectively.	Ap	С	Instructor- created exams/ Seminars/ Projects
CO3	Evaluate the appropriateness of different descriptive statistical techniques in various economic contexts, demonstrating critical thinking and analytical skills.	An	F	Seminar Presentation / Group Discussion
CO4	Demonstrate proficiency in utilizing descriptive statistics to summarize, interpret, and communicate economic data accurately and persuasively.	Ap	С	Instructor-created exams / Home Assignments
CO5	Communicate complex statistical concepts and their economic implications clearly and coherently to diverse stakeholders, fostering effective collaboration and decisionmaking.	С	F	Assignments to solve practical data set

- \* Remember (R), Understand (U), Apply (Ap), Analyse (An), Evaluate (E), Create (C)
- # Factual Knowledge (F) Conceptual Knowledge (C) Procedural Knowledge (P) Metacognitive Knowledge (M)

### DETAILED SYLLABUS:

Module	Unit	Content	Hrs	Marks
I		Measures of Central Tendency	12	26
	1	Requisites of a good average	1	-
	2	Arithmetic mean- calculation, properties- merits and demerits- weighted and combined arithmetic mean	3	
	3	Median- and other partition values- calculation- graphic method- merits and demerits.	2	
	4	Mode- Computation – Graphic Location- Merits and demerits	2	-
	5	Harmonic Mean and Geometric mean- computations- Mathematical Properties- Uses	3	
	6	Relationship among Averages	1	
II		Measures of Dispersion	23	48
	7	Meaning, objectives and significance of the measures of dispersion	2	
	8	Characteristics of an ideal measure of dispersion	2	
	9	Absolute and relative measures of dispersion	2	
	10	Range- Computation- merits and demerits- uses	1	
	11	Quartile deviation- computation- merits and demerits	2	
	12	Mean Deviation-computation- mean deviation about mean- mean deviation about median- relative measure- merits and demerits uses of mean deviation.	3	
	13	Standard deviation- computation- mathematical properties- combined standard deviation- variance- coefficient of variation- merits and demerits of standard deviation	5	
	14	Standard Deviation of a combined series	2	1
	15	Lorenz curve- Ginni Coefficient-	2	1
	16	Relations between various measures of dispersion	2	1
III		Skewness and Kurtosis	8	15

	17	Skewness- measures of skewness- Karl Pearson's coefficient of skewness- Bowley's measure of Skewness- Kelly's measure of skewness.  Kurtosis- meaning and interpretations-measures of kurtosis	3	
IV		Moments	5	9
	19	Relations between central and raw moments	2	
	20	Sheppard's correction for grouping errors.	1	
	21	Pearson's β and Υ coefficients based on moments	1	
	22	Coefficient of skewness based on moments.	1	
V		Applications of Univariate Statistics	12	
	23	Diagrammatic illustrations of possible averages and Dispersion measures		
	24	Comprehensive understanding of a frequency distribution with measures of central tendency, dispersion, skewness and Kurtosis.		

# References

- 1. S.C. Gupta., Fundamentals of Statistics. Mumbai: Himalaya Publishing Company.
- 2. S.P.Gupta. Statistical Methods, New Delhi: Sulthan Chand & Sons

## **Additional Readings**

1. Anderson, Sweeny, & Williams. (n.d.). *Statistics for business and Economics*. Thompson Education.

#### MAPPING OF COS WITH PSOS:

	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6	PO1	PO2	PO3	PO4	PO5	PO6	PO7
CO 1	3	1	ı	1	1	ı	3	1	1	1	1	1	1
CO 2	-	3	1	2	1	1	2	1	1	1	1	1	1

CO 3	3	1	1	1	-	1	1	-	1	-	3	1	1
CO 4	-	3	1	3	3	2	1	2	1	-	-	-	1
CO 5	3	-	-	2	3	3	-	2	3	1	2	-	1

### **CORRELATION LEVELS:**

Level	Correlation
-	Nil
1	Slightly / Low
2	Moderate / Medium
3	Substantial / High

### **ASSESSMENT RUBRICS:**

- Quiz / Assignment/ Viva Voce/ Discussion / Seminar
- Internal Exam
- Field work and project report (20%)
- Final Exam (70%)

	Internal Exam	Quiz / Assignment/ Viva Voce/ Discussion / Seminar	End Semester Examination
CO 1	✓	✓	✓
CO 2	✓		✓
CO 3	✓	✓	✓
CO 4	✓	✓	✓
CO 5		✓	

Programme	B.A. Econometrics and Data Management Honours					
Course Title	ELEMENTARY TO	OOLS FOR	ECONOMI	C DATA ANA	ALYSIS III	
Type of Course	Minor					
Semester	III					
Academic Level	200-299					
Course Details	Credit	Lecture per week	Tutorial per week	Practical per week	Total Hours	
	4	4	-	-	60	
Pre-requisites	Elementary Course on central tendency, Dispersion, Skewness, Kurtosis and Moments of level 100 – 199					
Course Summary	_	This course provides knowledge on correlation, Regression, Time series and Index numbers and its economic application				

# COURSE OUTCOMES (CO):

CO	CO Statement	Cognitive	Knowledge	<b>Evaluation Tools</b>
		Level*	Category#	used
CO1	Understand the significance of correlation and regression coefficients in economic analysis.	U	С	Instructor-created exams / Group Discussion.
CO2	Analyse various economic phenomenon in the light of correlation, regression and coefficient of determination.	An	F	Instructor- created exams/ Seminars/ Projects
CO3	Evaluate the economic phenomenon such as inflation, growth etc. by using the knowledge on index numbers and time series.	E	p	Seminar Presentation / Group Discussion
CO4	Utilize inferential statistics to summarize, interpret, and communicate economic data accurately and persuasively.	Ap	C	Instructor-created exams / Home Assignments/Pres entation
CO5	Analyse the economic data with the help of softwares and capable of constructing simple models incorporating regression coefficients	С	F	Writing assignments/ Seminar Presentations

<sup>\* -</sup> Remember (R), Understand (U), Apply (Ap), Analyse (An), Evaluate (E), Create (C)

<sup># -</sup> Factual Knowledge (F) Conceptual Knowledge (C) Procedural Knowledge (P) Metacognitive Knowledge (M)

#### DETAILED SYLLABUS:

Module	Unit	Content	Hrs	Marks
I		Correlation Analysis	11	22
	1	Meaning and Types of Correlation	2	
	2	Methods of Studying correlation- scatter diagram- Correlation graph- Karl Pearson's Coefficient of correlation-rank Correlation- Method of concurrent Deviation	4	
	3	Properties of Correlation coefficient-Probable error	2	
	4	Coefficient of Determination- Meaning, Problems and Interpretation.	2	
	5	Lag and lead correlation	1	
II		Linear Regression Analysis	11	22
	6	Meaning, types and Uses of Regression	2	
	7	Difference between Correlation and Regression	1	
	8	Regression Lines- X on Y and Y on X- Uses of Regression lines on Prediction	4	
	9	Calculation for regression equations- method of Least Squares	2	
	10	Properties of Regression coefficients	1	
	11	Standard error of an estimate	1	
III		Index Numbers	15	32
	12	Meaning, Uses and Types of index numbers	1	
	13	Problems in the construction of index numbers	1	
	14	Methods of Constructing Index Numbers- Simple Aggregate Method, weighted Aggregate Method, Simple Average of Price Relatives and Weighted average of price relatives	5	
	15	Tests of index numbers- unit test- Time reversal test- factor reversal test- Circular test	2	
	16	Fixed base and chain based index numbers	2	
	17	Base shifting- splicing and deflating of index numbers	1	
	18	Cost of living index numbers- steps in the construction- uses of cost of living index numbers	2	
	19	Limitations of index numbers	1	
IV		Introduction to Time Series Analysis	11	22
	20	What is Time series? Components of Time Series	3	

	21	Measurement of Trend- graphic method- Method of Semi Averages- Method of Curve fitting by Principle of Least squares	4	
	22	Measurement of Seasonal Variations- Simple average method- ratio to trend method-Ratio to moving average- method of link relatives- Deseasonalisation of data	4	
V		Applications with Spread-sheets		
		CPI, WPI and Stock Price Indices- BSE-SENSEX and NSE-NIFTY		
		Calculation of correlation and regression using Excel		
		Trend line fitting in excel		

### References

- 1. S.C. Gupta., *Fundamentals of Statistics*. Mumbai: Himalaya Publishing Company.(Module 1,2,3 and 4)
- 2. S.P.Gupta. Statistical Methods, New Delhi: Sulthan Chand & Sons .(Module 1,2,3 and 4)

## **Additional Readings**

1. Anderson, Sweeny, & Williams. (n.d.). *Statistics for business and Economics*. Thompson Education.

#### MAPPING OF COS WITH PSOS:

	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6	PO1	PO2	PO3	PO4	PO5	PO6	PO7
CO 1	3	1	1	1	1	1	3	1	1	1	1	1	-
CO 2	-	3	1	1	2	1	3	1	1	1	1	1	1
CO 3	3	-	-	1	-	-	-	-	1	1	1	-	-
CO 4	-	3	1	2	3	2	-	2	ı	ı	1	ı	-
CO 5	3	ı	1	-	2	3	-	1	1	2	1	1	2

### **CORRELATION LEVELS:**

Level	Correlation
-	Nil
1	Slightly / Low
2	Moderate / Medium
3	Substantial / High

### **ASSESSMENT RUBRICS:**

- Quiz / Assignment/ Viva Voce/ Discussion / Seminar
- Internal Exam
- Field work and project report (20%)
- Final Exam (70%)

	Internal Exam	Quiz / Assignment/ Viva Voce/ Discussion / Seminar	End Semester Examination
CO 1	✓	✓	✓
CO 2	✓		✓
CO 3	✓	✓	✓
CO 4	<b>√</b>	✓	✓
CO 5		✓	

Programme	B.A. Econometrics and Data Management Honours						
Course Title	ELEMENTARY TO	ELEMENTARY TOOLS FOR ECONOMIC DATA ANALYSIS IV					
Type of Course	Minor						
Semester	VIII						
Academic Level	300 – 399						
Course Details	Credit	Lecture	Tutorial	Practical	Total		
		per week	per week	per week	Hours		
	4	4	-	-	60		
Pre-requisites	Elementary knowledge on Estimation theory, Testing of Hypothesis and Descriptive Statistics of level 200 – 299						
Course Summary	This course provides knowledge on F test, ANOVA, Interpolation and extrapolation and interpretation of data and statistical fallacies essential for economic data analysis and conducting economic research.						

# COURSE OUTCOMES (CO):

CO	CO Statement	Cognitive	Knowledge	Evaluation
		Level*	Category#	Tools used
CO1	Understand the purpose of the F test in comparing variances or testing the equality of means, how ANOVA compares means across multiple groups or factors. Interpret interpolated values and their significance in the context of data analysis and helps to recognize the importance of accurate data interpretation in research and decision-making.	מ	C	Instructor- created exams / Group Discussion.
CO2	Analyse various economic research problems using F test and ANOVA. Compare and contrast different interpolation methods based on their suitability for specific datasets.	An	F	Instructor- created exams/ Seminars/ Projects
CO3	Evaluate the appropriateness of using ANOVA in different research contexts, Assess the reliability of interpolated values in decision- making contexts and the potential impact of inaccuracies. Evaluate the impact of accurate data interpretation on decision-making processes and public perception.	E	p	Seminar Presentation / Group Discussion

CO4	Apply interpolation techniques to estimate missing or intermediate values within a dataset.	Ap	С	Instructor- created exams / Home Assignments
CO5	Design experimental studies or research questions suitable for ANOVA analysis. Design interpolation strategies for datasets with irregular or missing data points. Synthesize findings from multiple sources to form well-founded interpretations and conclusions.	С	F	Writing assignments/ Presentations

## DETAILED SYLLABUS:

Module	Unit	Content	Hrs	Marks
			10	19
	1	F Statistic	2	
	2	Critical values of F distribution	2	
	3	Chief features of F Distribution	2	
	4	Applications of F distribution	2	
	5	Relation between t, F and Chi-square Distribution	2	
II		Analysis of Variance	13	28
	6	ANOVA-Meaning, Definition and Assumptions	2	
	7	One way Classification	3	
	8	Hypothesis testing	3	
	9	Two Way classification	5	
III		Interpolation and Extrapolation	14	29
	10	Meaning and assumptions	1	
	11	Uses of Interpolation	2	
	12	Methods of Interpolation	2	
	13	Graphic Method	2	
	14	Algebraic method	2	

<sup>\* -</sup> Remember (R), Understand (U), Apply (Ap), Analyse (An), Evaluate (E), Create (C) # - Factual Knowledge(F) Conceptual Knowledge (C) Procedural Knowledge (P) Metacognitive Knowledge (M)

	15	Method of Parabolic curve fitting	2	
	16	Interpolation with arguments at unequal intervals	2	
	17	Inverse interpolation	1	
IV		Interpretation of Data and statistical Fallacies	11	22
	18	Interpretation of Data and statistical Fallacies- meaning and need	2	
	19	Factors leading to mis-interpretation of Data	2	
	20	Bias, Inconsistencies of definition, faulty generalization and inappropriate comparisons	2	
	21	Wrong interpretation of statistical measures.	3	
	22	Effect of wrong interpretation of data	2	
V		ANOVA in Practice	12	
		Perform a one-way ANOVA to determine if there are significant differences in test scores between the three schools.		
		Obtain data on the yield of crops from different fields across two regions (Region A, Region B) and two soil types (Sandy, Clayey).		
	Perform a two-way ANOVA to examine the effects of region and soil type on crop yield.			
		Provide students with a data set containing a series of measurements taken at regular intervals, with some missing values.		
		Instruct students to use linear interpolation to estimate the missing values based on the neighboring data points.		

# References

- 1. S.C. Gupta., *Fundamentals of Statistics*. Mumbai: Himalaya Publishing Company.(Module 1,2,3 and 4)
- 2. S.P.Gupta. Statistical Methods, New Delhi: Sulthan Chand & Sons .(Module 1,2,3 and 4)

# **Additional Readings**

1. Anderson, Sweeny, & Williams. (n.d.). *Statistics for business and Economics*. Thompson Education.

### MAPPING OF COS WITH PSOS:

	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6	PO1	PO2	PO3	PO4	PO5	PO6	PO7
CO 1	3	-	1	1	1	-	3	-	-	1	-	-	1
CO 2	-	3	ı	1	2	-	2	-	-	1	-	-	1
CO 3	3	-	-	1	-	-	-	1	-	-	2	-	-
CO 4	-	3	1	2	3	2	-	-	-	1	-	-	-
CO 5	3	-	-	-	2	3	-	1	-	1	-	-	2

#### **CORRELATION LEVELS:**

Level	Correlation			
-	Nil			
1	Slightly / Low			
2	Moderate / Medium			
3	Substantial / High			

#### **ASSESSMENT RUBRICS:**

- Quiz / Assignment/ Viva Voce/ Discussion / Seminar
- Internal Exam
- Field work and project report (20%)
- Final Exam (70%)

	Internal Exam	Quiz / Assignment/ Viva Voce/ Discussion / Seminar	Field work- project	End Semester Examination
CO 1	✓	✓		<b>√</b>
CO 2	✓			✓
CO 3	✓	✓		✓
CO 4	<b>√</b>	<b>√</b>		<b>√</b>
CO 5		<b>√</b>		

- Practical Assignments
- Final Exam (70%)

	Internal Exam	Quiz / Assignment/ Viva Voce/ Discussion / Seminar	Practical Assignment	End Semester Examination
CO 1	<b>√</b>	✓		✓
CO 2	<b>√</b>	✓	✓	✓
CO 3	<b>✓</b>	<b>✓</b>		✓
CO 4	✓	✓	✓	✓
CO 5		✓	✓	

# MODEL QUESTION PAPERS

#### I Semester B.A. (CUFYUGP) Degree Examinations November 2024

#### **ECO1CJ101: PRINCIPLES OF ECONOMICS**

(credits: 4)

Maximum Time: 2 hours Maximum Marks: 70

#### **Section A**

[Answer All. Each question carries 3 marks] (Ceiling: 24 Marks)

- 1. Explain the concept of opportunity cost with a practical example.
- 2. How do rational individuals make decisions at the margin? Provide a real-world application.
- 3. Discuss how incentives can influence economic behaviour in a workplace.
- 4. Illustrate how trade can make everyone better off using an example from international trade.
- 5. Describe the role of government in correcting market failures with a current example.
- 6. Explain the Production Possibilities Frontier (PPF) with a scenario of two goods produced in an economy.
- 7. Differentiate between microeconomics and macroeconomics using practical examples.
- 8. How does the circular flow diagram represent the functioning of an economy?
- 9. Describe a situation where marginal analysis can be applied to a business decision.
- 10. Explain the concept of scarcity and how it influences individual and societal choices.

### **Section B**

[Answer All. Each question carries 6 marks] (Ceiling: 36 Marks)

- 11. Analyze the trade-offs between inflation and unemployment in the short run, citing a contemporary example.
- 12. Explain the role of assumptions in economic modeling with an example from production or consumption decisions.

- 13. Discuss the command economy and its influence on resource allocation using a historical or modern example.
- 14. Apply the concept of 'invisible hand' to explain market outcomes in the technology industry.
- 15. How do private property rights encourage innovation and economic progress? Use a practical example from an industry.
- 16. Describe the "profit system" and how it deals with business risks in a competitive market.
- 17. How do present economic choices impact future growth possibilities in an economy? Use relevant examples to support your answer.
- 18. Explain how the market system promotes progress and technological innovation using a case study.

#### **Section C**

[Answer any one. Each question carries 10 marks] (1 x 10 = 10 marks)

- 19. Discuss the differences between laissez-faire capitalism, the command system, and the market system, providing practical examples of countries or industries where these systems are applied.
- 20. Explain the scientific method in economics and its relevance in decision-making.

### Blueprint Based on Bloom's Taxonomy:

#### **Detailed Breakdown of Bloom's Taxonomy Levels:**

### 1. **Remember**: (Not directly assessed)

This paper doesn't focus on pure recall questions but integrates understanding and application of remembered facts.

#### 2. Understand:

In **Part A**, questions 1 to 12 check understanding of basic concepts, such as opportunity cost, trade-offs, government roles, etc.

### 3. Apply:

Both **Part A** and **Part B** require students to apply economic concepts and models in practical scenarios. For example, applying marginal analysis, inflation's impact, and the circular flow model.

#### 4. Analyze:

In **Part B** and **Part C**, students must analyze various economic systems and theoretical models (e.g., command economy, invisible hand) and provide detailed evaluations.

#### 5. **Evaluate**: (Not directly assessed)

The paper does not focus on critical evaluation but emphasizes applying and analyzing existing theories.

#### 6. **Create**: (Not directly assessed)

The paper does not focus on creating new solutions or original models but emphasizes applying and analyzing existing theories.

Question No.	Understand	Apply	Analyze
1	<b>√</b>		
2	√		
3		<b>√</b>	
4		✓	
5		✓	
6	✓		
7	✓		
8	✓		
9		<b>√</b>	
10	<b>√</b>		
11			<b>√</b>
12		<b>√</b>	
13			<b>√</b>
14		<b>√</b>	
15			<b>√</b>
16			<b>√</b>
17		<b>√</b>	
18			<b>√</b>
19			<b>√</b>
20			<b>√</b>

# **Blueprint Based on Chapters:**

# **Chapters:**

- Basic Principles of Economics (Module I)
   Thinking like an Economist (Module II)
   Limits, Alternatives, and Choices (Module III)
   The Market System (Module IV)

Question No.	Chapter 1	Chapter 2	Chapter 3	Chapter 4
1	<b>√</b>			
2	√			
3		✓		
4	<b>√</b>			
5	√			
6		✓		
7		✓		
8		<b>√</b>		
9			✓	
10			<b>√</b>	
11			✓	
12		✓		
13			✓	
14		<b>√</b>		
15				✓
16				√
17			✓	
18				√
19				<b>√</b>
20	✓			

# I Semester B.A. (CUFYUGP) Degree Examination MDC (Sample Question Paper)

# ECO1FM105: Security Trading Practices

(Credits: 3)

Maximum Time: 1.5 Hours Maximum Marks: 50

#### **Section A**

(Answer All. Each question carries 2 marks) (Ceiling: 16 Marks)

- 1. What is capital market?
- 2. Define primary market.
- 3. What is bearish candle?
- 4. Define Marubozu.
- 5. What is engulfing pattern?
- 6. What is capital gain tax?
- 7. What is Price-to-Book (P/B) ratio?
- 8. Define Earnings Per Share.
- 9. Define retail trader.
- 10. What is derivative?

#### **Section B**

(Answer All. Each question carries 6 marks) (Ceiling: 24 Marks)

- 11. Explain different instruments of secondary market.
- 12. Write a short note on BSE and NSE.
- 13. Explain Capital Asset Pricing Model.
- 14. Examine Behavioural Portfolio Theory.
- 15. Discuss the process of capital building through cumulative investment.

#### **Section C**

(Answer any one. Each question carries 10 marks) ( $1 \times 10 = 10 \text{ Marks}$ )

- 16. Discuss major ratios used in the fundamental analysis.
- 17. Explain different traders in the secondary market.

### Ist Semester B.A. (CUFYUGP) Degree Examinations EDM1MN104: Elementary Tools for Economic Data Analysis I (credits: 4)

Maximum Time: 2 hours Maximum Marks: 70

#### **Section A**

[Answer all. Each question carries 3 marks] (Ceiling: 24 marks)

- 1. What is the lottery method used in sampling?.
- 2. Distinguish between primary and secondary data.
- 3. What is a census?
- 4. What are the different stages of planning a survey?
- 5. Define quota sampling. Under what circumstances is it used?
- 6. What are the merits of sampling?
- 7. Explain the terms 'quantitative' and 'qualitative' data with examples.
- 8. What is a range graph? What are its uses?
- 9. What is a frequency distribution table? Construct a discrete frequency distribution table for the data describing the sizes of shoes sold in a shop on a typical day: 5, 6, 7, 9, 4, 5, 8, 4, 5, 7, 6, 5, 5, 4, 9, 8, 8, 7, 5, 6, 6, 5, 4, 5, 6.
- 10. Draw a suitable graph for the following data regarding sales of dress sizes sold at Eastside Pvt. Ltd. on a typical day: XS, S, XS, M, L, XL, S, M, XS, M, XXL, M, XS, XL, XXL, M, S, M, S, XS, M, S, S, M, XXL.

#### **Section B**

[Answer all. Each question carries 6 marks] (Ceiling: 36 marks)

- 11. What is the scope of statistics? Discuss the limitations of statistics.
- 12. Discuss the different modes of non-probability sampling and their uses
- 13. Distinguish between sampling and non-sampling errors.
- 14. Prepare an **inclusive** frequency distribution table of class width of **9 units** each for the following data.

42	22	55	18	50	10	33	29	17	29
29	27	34	15	40	41	35	27	44	31
38	19	54	55	38	19	20	30	42	59
15	19	27	23	40	32	28	51	31	20

15. Draw a percentage bar diagram to show the monthly expenditure patterns of Family A and Family B as data given below.

- 5							
Items	Food	Clothing	Rent	Education	Recreation	Commuting	Total
Family	300	100	200	200	150	150	1100
A							
Family	500	200	200	400	100	200	1600
В							

- 16. Distinguish between arithmetic scale graphs and ratio scale graphs.
- 17. Draw a blank table to represent the following attributes of personnel working for a factory:

17. Blan a claim tacle to represent the	Tono wing attributes of personner working for
Years	2000 and 2001
age groups	Below 25, 25-40, above 40
salary grade	Below 3000, 3000-5000, above 5000

gender Male, female
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18. What are the limitations of graphical and diagrammatic representations of data?

#### **Section C**

[Answer any one. Each question carries 10 marks] (1x10 = 10 marks)

19. The frequency table below shows the monthly food expenditure of 200 families in a town.

Expenditure	0-2000	2000-	4000-	6000-	8000-	10000-
(Rs.)		4000	6000	8000	10000	12000
No. of	14	48	60	54	16	8
families						

- a) Construct a frequency polygon for the given data.
- b) Also construct the 'less than' and 'greater than' ogives for the same.
- c) If the average monthly income of the sample is Rs. 20000; how many families spend at least 25% of their income on food expenditure?
- 20. The following data shows the status of mineral production (in million tonnes) of extractive industries in India from 2000-2006. Represent the same as a band graph.

Year	Iron-ore	Coal	Bauxite	Other	Total
				minerals	
2000	35	15	15	19	84
2001	37	16	13	23	89
2002	38	14	16	25	93
2003	40	17	16	25	98
2004	41	15	15	27	98
2005	43	16	14	28	101
2006	50	16	14	30	110