UNIVERSITY OF CALICUT

B.A. ECONOMICS WITH FOREIGN TRADE HONOURS

(MAJOR, MINOR AND GENERAL FOUNDATION COURSES)

SYLLABUS & MODEL QUESTION PAPERS w.e.f. 2024 admission

(CUFYUGP Regulations 2024)

B.A. ECONOMICS WITH FOREIGN TRADE HONOURS

(MAJOR, MINOR AND GENERAL FOUNDATION COURSES)

SYLLABUS

PROGRAMME OUTCOMES (PO):

At the end of the graduate programme at Calicut University, a student would:

	Knowledge Acquisition:
PO1	Demonstrate a profound understanding of knowledge trends and their impact on the chosen discipline of study.
	Communication, Collaboration, Inclusiveness, and Leadership:
PO2	Become a team player who drives positive change through effective communication, collaborative acumen, transformative leadership, and a dedication to inclusivity.
	Professional Skills:
PO3	Demonstrate professional skills to navigate diverse career paths with confidence and adaptability.
	Digital Intelligence:
PO4	Demonstrate proficiency in varied digital and technological tools to understand and interact with the digital world, thus effectively processing complex information.
	Scientific Awareness and Critical Thinking:
PO5	Emerge as an innovative problem-solver and impactful mediator, applying scientific understanding and critical thinking to address challenges and advance sustainable solutions.
	Human Values, Professional Ethics, and Societal and Environmental Responsibility:
PO6	Become a responsible leader, characterized by an unwavering commitment to human values, ethical conduct, and a fervent dedication to the well-being of society and the environment.
	Research, Innovation, and Entrepreneurship:
PO7	Emerge as a researcher and entrepreneurial leader, forging collaborative partnerships with industry, academia, and communities to contribute enduring solutions for local, regional, and global development.

PROGRAMME SPECIFIC OUTCOMES (PSO):

At the end of the BA Economics with Foreign Trade Honours programme at Calicut University, a student would:

PSO1	Understand basic concepts of economics and foreign trade.
PSO2	Examine the socio-economic problems and find out the strategies to overcome these problems through community engagement

PSO3	Achieve organizational, management and leadership skills for international business.
PSO4	Acquire skills to evaluate contemporary socio-economic issues by accessing information from various sources and analyzing the collected information using software
PSO5	Understand diverse needs of the marginalized segments of the society and equip them to engage in endeavours leading to their emancipation
PSO6	Inculcate ethical values and to avoid unethical practices such as plagiarism, misrepresentation of data and violation of intellectual property rights
PSO7	Apply analytical thinking to various economic phenomena, including analysis and evaluation of economic policies, practices, evidence, arguments, claims and beliefs
PSO8	Acquire skills and knowledge to address real world economic issues in familiar and unfamiliar contexts
PSO9	Develop appropriate methodology and tools for data collection, presentation and analysis, formulate appropriate and relevant research questions, and predict cause- effect relationships to deal with problems and situations to be solved through innovative practices

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

Sl. No.	Academic Pathway		Minor/ Other Disciplines ourse has redits	Foundation Courses AEC: 4 MDC: 3 SEC: 3 VAC: 3 Each course has 3 credits	Intern -ship	Total Credit s	Example
1	Single Major (A)	68 (17 courses)	24 (6 courses)	39 (13 courses)	2	133	Major: Economics with Foreign Trade + six courses in different disciplines in different combinations

2	Major (A) with Multiple Disciplines (B, C)	68 (17 courses)	12 + 12 (3 + 3 = 6 courses)	39 (13 courses)	2	133	Major: Economics with Foreign Trade + History and Political Science
3	Major (A)	68	24	39	2	133	Major: Economics
	with Minor (B)	(17 courses)	(6 courses)	(13 courses)			with Foreign Trade
							Minor: History
4	Major (A) with Vocational Minor (B)	68 (17 courses)	24 (6 courses)	39 (13 courses)	2	133	Major: Economics with Foreign Trade Minor: Taxation Practices and Procedures
5	Double	A: 48	-	12 + 18 + 9	2	133	Economics
	Major (A, B)	(12 courses) B: 44 (11 courses)	are distribu Majors. 2 MDC, 2 Internship s Total credits 48 + 20 = 68 1 MDC, 1 S	its in the Mino ted between SEC, 2 VAC hould be in N in Major A sl 3 (50% of 133) EC and 1 VAC 3. Total credits	and the fajor A. hould be		with Foreign Trade and Mathematics double major
	Eit	with UC D	B should be 133)	44 + 9 = 53 d to Fourth Ye	(40% of	22 Cur 4:4-	

B.A. ECONOMICS WITH FOREIGN TRADE 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

Se	Course	ourse	Total	Hours/	Credi		Mark	s
mes ter	Code	Course Title	Hours	Week	ts	Inte rnal	Exte rnal	Total
	ECO1CJ 101/ ECO1M N100	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	ENG1F A 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/ ECO2M N100	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	ENG2F A 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
	ECO3CJ 201	Core Course 3 in Major – Analytical Tools for Economics – I	60	4	4	30	70	100
3	ECO3CJ 202/ ECO3M N200	Core Course 4 in Major – Evolution of		4	4	30	70	100
		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
	ENG3F V 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	ENG4F V 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
	ENG4F S 111(1B)	Skill Enhancement Course 1 – English	60	4	3	25	50	75
		Total		22	21			525
	ECO5CJ 301	Core Course 8 in Major – Advanced Microeconomics	60	4	4	30	70	100
	EFT5CJ 302	Core Course 9 in Major – Foreign Trade Documentation and Logistics	60	4	4	30	70	100
5	EFT5CJ 303	Core Course 10 in Major – Export Marketing	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
	EFT6CJ 304/ EFT8M N304	Core Course 11 in Major – Economics of Shipping and Insurance Practices	60	4	4	30	70	100
6	EFT6CJ 305/	Core Course 12 in Major – Foreign	75	5	4	30	70	100
	EFT8M N305	Trade Financing and Procedure						

	ECO8M							
	N306							
		Elective Course 3 in Major	60	4	4	30	70	100
		Elective Course 4 in Major	60	4	4	30	70	100
	ECO6F S 113	Skill Enhancement Course 3 – Economic Research with R	45	3	3	25	50	75
	EFT6CJ 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
		Total Credits for Three Years			133			3325
	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
	ECO8CJ 406 / ECO8M N406	Core Course 19 in Major – Macroeconomic Models and Measurement	75	5	4	30	70	100
	ECO8CJ 407 / ECO8M N407	Core Course 20 in Major – Applied Microeconomics and Evaluation	60	4	4	30	70	100
8	ECO8CJ 408 / ECO8M N408	Core Course 21 in Major – Heterodox Economics	60	4	4	30	70	100
		OR (instead of Core Cou	ırses 19 -	- 21 in M	ajor)			
	EFT8CJ 449	Project (in Honours programme)	360*	13*	12	90	210	300
	EFT8CJ 499	Project (in Honours with Research programme)	360*	13*	12	90	210	300
		Elective Course 5 in Major / Minor Course 7	60	4	4	30	70	100

	Elective Course 6 in Major / Minor Course 8	60	4	4	30	70	100
	Elective Course 7 in Major / Minor Course 9 / Major Course in any Other Discipline	60	4	4	30	70	100
OR (instead of Elective Course 7 in Major, in the case of Honours with Research Programme							amme)
ECO8CJ 489 (1)/ ECO8CJ 489 (2)	Methods for Quantitative Research in Economics/ Methods for Qualitative Research in Economics	60	4	4	30	70	100
	Total		25	24			600
•			177			4425	

*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	00	24	39	2	155
7	4 + 4 + 4 + 4 + 4	-	-	-	20
8	4 + 4 + 4	4 + 4 + 4	-	12*	24
	* In	stead of three	ee Major cours	es	
Total for Four Years	88 + 12 = 100	36	39	2	177

DISTRIBUTION OF MAJOR COURSES IN ECONOMICS WITH FOREIGN TRADE 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 / ECO3MN 200	Core Course 4 in Major – Evolution of Economic Theories	4	4
	ECO4CJ 203	Core Course 5 in Major – Intermediate Microeconomics	4	4
4	ECO4CJ 204	Core Course 6 in Major – Intermediate Macroeconomics	4	4
	ECO4CJ 205	Core Course 7 in Major – Analytical Tools for Economics – II	4	4
	ECO5CJ 301	Core Course 8 in Major – Advanced Microeconomics	4	4
	EFT5CJ 302	Core Course 9 in Major – Foreign Trade Documentation and Logistics	4	4
5	EFT5CJ 303	Core Course 10 in Major – Export Marketing	4	4
		Elective Course 1 in Major	4	4
		Elective Course 2 in Major	4	4
6	EFT6CJ 304 / EFT8MN 304	Core Course 11 in Major – Economics of Shipping and Insurance Practices	4	4

	EFT6CJ			
	305 /	Corre Course 12 in Maion Eoreign Trade		
	EFT8MN	Core Course 12 in Major – Foreign Trade	5	4
		Financing and Procedure		
	305			
	ECO6CJ			
	306 /	Core Course 13 in Major – Advanced	4	4
	ECO8MN	Macroeconomics		
	306			
		Elective Course 3 in Major	4	4
		Elective Course 4 in Major	4	4
	EFT6CJ 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
7	ECO7CJ	Core Course 16 in Major – Development Theories		
-	403	and Models	5	4
	ECO7CJ	Core Course 17 in Major – Balance of Payments		
	404	and Exchange Market	5	4
	ECO7CJ	Core Course 18 in Major – Development Issues in		
	405	Kerala	5	4
	ECO8CJ	Core Course 19 in Major – Macroeconomic		
	406 /	Models and Measurement		
	ECO8MN	Models and Measurement	5	4
	406			
	ECO8CJ	Core Course 20 in Major – Applied		
	407 /	Microeconomics and Evaluation		
	ECO8MN	incrocconomics and Evaluation	4	4
	407			
	ECO8CJ	Core Course 21 in Major – Heterodox Economics		
	408 /	Core Course 21 in Major – Helerodox Econollines		
	ECO8MN		4	4
	408			
8		OR (instead of Core Courses 19 – 21 in Major	r)	
	EFT8CJ	Project	· /	
	449	(in Honours programme)	13	12
	EFT8CJ	Project		
	499	(in Honours with Research programme)	13	12
	+//		4	4
		Elective Course 5 in Major	4	4

	Elective Course 6 in Major	4	4			
	Elective Course 7 in Major	4	4			
OR (instead of Elective course 7 in Major, in Honours with Research prog						
ECO8CJ 489 (1)/ ECO8CJ 489 (2)	Methods for Quantitative Research in Economics/ Methods for Qualitative Research in Economics	4	4			
	Total for the Four Years		114			

ELECTIVE COURSES IN ECONOMICS WITH FOREIGN TRADE

Sl.	Course	Title	Seme	Total	Hrs/	Cre		Marks	5
No.	Code		ster	Hrs	Week	dits	Inte rnal	Exte rnal	Total
1	ECO5EJ 301	Gender Analysis in Economics	5	60	4	4	30	70	100
2	ECO5EJ 302	Environment and Sustainable Development	5	60	4	4	30	70	100
3	ECO5EJ 303	Economic Database Management	5	60	4	4	30	70	100
4	ECO5EJ 304	Economics of Labour Market	5	60	4	4	30	70	100
5	ECO5EJ 305	Health Economics	5	60	4	4	30	70	100
6	ECO5EJ 306	Human Capital and Economic Development	5	60	4	4	30	70	100
7	EFT5EJ 307	Foreign Trade in India	5	60	4	4	30	70	100
8	EFT5EJ 308	International Economics	5	60	4	4	30	70	100

9	ECO6EJ	Industrial Economics	б	60	4	4	30	70	100
	307								
10	ECO6EJ	Agricultural Economics	6	60	4	4	30	70	100
	308								
11	ECO6EJ	Indian Financial Market	6	60	4	4	30	70	100
	309								
12	ECO6EJ	Demography	6	60	4	4	30	70	100
	310								
13	ECO6EJ	Basic Methods for	6	60	4	4	30	70	100
	311	Economic Research							
14	ECO6EJ	Economic Geography	6	60	4	4	30	70	100
	312								
15	EFT6EJ	Foreign Exchange	6	60	4	4	30	70	100
	313	Management							
16	EFT6EJ	Computer Applications in	6	60	4	4	30	70	100
	314	Foreign Trade							
17	ECO8EJ	Social Choice Theory	8	60	4	4	30	70	100
	401								
18	ECO8EJ	Banking and Insurance	8	60	4	4	30	70	100
	402								
19	ECO8EJ	Economics of Education	8	60	4	4	30	70	100
	403								
20	ECO8EJ	Law and Economics	8	60	4	4	30	70	100
	404								
21	ECO8EJ	Local Level Planning	8	60	4	4	30	70	100
	405								
22	ECO8EJ	Finance and Technology	8	60	4	4	30	70	100
	406								

GROUPING OF MINOR COURSES IN ECONOMICS WITH FOREIGN TRADE

(The minor courses given below should not be offered to students who have taken Economics with Foreign Trade as the major discipline, except in the case of Multiple Discipline pathway. In case of multiple discipline pathway, a maximum of one group (three courses) can be opted as one of the subjects of study by students with Economics with Foreign Trade as major. Students in Major (other than Economics with Foreign Trade) with Minor pathway can choose all the courses from any two Minor groups.)

Group	Sl.	Course	Title	Seme	Total	Hrs/	Cre		Marks	5		
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	-	–	50	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		5	00	•		20	, 0	100		
2	1	ECO1101	MONETARY	POLIC	CY IN P.	RACTIO	CE					
	1	ECO1MN	Monetary Tools for Policy	1	60	4	4	30	70	100		
		102	Formulation									
	2	ECO2MN	Monetary Policy and	2	60	4	4	30	70	100		
	3	102 ECO3MN	Stabilization									
	3	202	Monetary Policy in India	3	60	4	4	30	70	100		
		202	Monetary Poncy III India									
3			SECTORAL DYNA	MICS I	N INDI	AN ECO	ONON	ſΥ				
-	1	ECO1MN	Sectoral contributions in									
		103	Indian Economy	1	60	4	4	30	70	100		
	2	ECO2MN		2	60	4	4	20	70	100		
		103	Industrial Policies in India	2	60	4	4	30	70	100		
	3	ECO3MN	Agricultural Development	3	60	Δ	4	20	70	100		
		203	in India	3	60	4	4	30	70	100		
4			INDIAN ECONOMIC DEVELOPMENT									
	1	ECO1MN	Development issues in	1	60	4	4	30	70	100		
		104	Indian Economy	<u> </u>				20	, 0	100		
	2	ECO2MN	Trade Policy in India	2	60	4	4	30	70	100		
		104	frade i oney in mora	<i>L</i>	00			50	10	100		

(Title of the Minor: ECONOMICS)

3	ECO3MN	Knowledge Economy in	3	60	4	1	30	70	100
	204	India	5	00	+	Ť	50	70	100

GROUPING OF VOCATIONAL MINOR COURSES IN ECONOMICS WITH FOREIGN TRADE

(The vocational minor courses given below should not be offered to students who have taken Economics with Foreign Trade as the major discipline, except in the case of Multiple Discipline pathway. In case of multiple discipline pathway, a maximum of one group (three courses) can be opted as one of the subjects of study by students with Economics with Foreign Trade as major. Students in Major (other than Economics with Foreign Trade) with Vocational Minor pathway can choose all the courses from any two Vocational Minor groups.)

Group	Sl.	Course	Title	Seme	Total	Hrs/	Cre		Marks	5
No.	No.	Code		ster	Hrs	Week	dits	Inte	Exte	Total
								rnal	rnal	
1			Inco	me Tax	Practic	es				
	1	ECO1VN	Basics of Income Tax	1	60	4	4	30	70	100
		101			00	-				
	2	ECO2VN	Calculation of Income for	2	60	4	4	30	70	100
		101	Taxation		00	-				
	3	ECO3VN	Income Tax Assessment	3	60	4	4	30	70	100
		201			00					
	4	ECO8VN	Income Tax Laws,	8	60	4	4	30	70	100
		301	Procedures and							
			Authorities							
2		BGG (1) B 1	(GST Pra	ctices			•	-0	100
	1	ECO1VN	Foundations of GST	1	60	4	4	30	70	100
		102		2			4	20	70	100
	2	ECO2VN	GST Compliance	2	60	4	4	30	70	100
		102		2				20	70	100
	3	ECO3VN 202	GST Audit and	3	60	4	4	30	70	100
	4	ECO8VN	Investigation Techniques	8	60	4	4	30	70	100
	4	302	Advanced Topics in GST: Anti-Evasion Measures	8	60	4	4	30	70	100
		302								
			and Case Studies							
3		Advanced Data Analysis in Economics								
3	1	ECO1VN	Fundamentals of Data		y 515 111 1 		4	30	70	100
	1			1	60	4	4	30	70	100
		103	Science in Economics							

(Title of the Vocational Minor: Economics)

	2	ECO2VN 103	Cross Section Data Analysis in Economics	2	60	4	4	30	70	100				
	3	ECO3VN 203	Time Series Data Analysis in Economics	3	60	4	4	30	70	100				
	4	ECO8VN 303	Panel Data Analysis in Economics	8	60	4	4	30	70	100				
4			Applied Data Science Techniques in Economics											
	1	ECO1VN	Applied Econometrics and	1	60	4	4	30	70	100				
		104	Data Mining		00	4								
	2	ECO2VN 104	Big Data Applications in Economics	2	60	4	4	30	70	100				
	3	ECO3VN	Economic Data	3			4	30	70	100				
		204	Visualisation		60	4								
			and Storytelling											
	4	ECO8VN	Machine Learning in	8	60	4	4	30	70	100				
		304	Economics											

- I. Students in Single Major pathway can choose course/courses from any of the Minor/ Vocational Minor groups offered by a discipline other than their Major discipline.
- II. Students in Major with Multiple Disciplines pathway can choose as one of the multiple disciplines, all the three courses from any one of the Minor/ Vocational Minor groups offered by any discipline, including their Major discipline. If they choose one of the Minor/ Vocational Minor groups offered by their Major discipline as the first one of the multiple disciplines, then their choice as the second one of the multiple disciplines should be any one of the Minor/ Vocational Minor groups offered by a discipline other than the Major discipline. If the students with major Economics with Foreign Trade choose any one of the Minor/ Vocational Minor groups in Economics with Foreign Trade as given above, then the title of the group will be the title of that multiple discipline. If the students with Foreign Trade choose any two Minor groups in Economics with Foreign Trade as given above, then the title of the discipline. If the students with Foreign Trade choose any two Minor groups in Economics with Foreign Trade as given above, then the title of the discipline. If the students with Foreign Trade as given above, then the title of the discipline. If the students with Foreign Trade as given above, then the title of the discipline. If the students with Foreign Trade as given above, then the title of the discipline. If the students with Foreign Trade as given above, then the title of the discipline. If the students with Foreign Trade as given above, then the title of the discipline. If the students with Foreign Trade as given above, then the title of the Minor will be Economics
- III. Students in Major with Minor pathway can choose all the courses from any two Minor groups offered by any discipline other than major discipline. If the students with major other than Economics with Foreign Trade choose any two Minor groups in Economics with Foreign Trade as given above, then the title of the Minor will be Economics. Students in Major Economics with Foreign Trade with Minor pathway cannot choose all the courses from the Minor groups of Economics with Foreign Trade. But students with major Economics with Foreign Trade opting

minor pathway can choose all the courses from two groups of Quantitative Economics (given below).

IV. Students in Major with Vocational Minor pathway can choose all the courses from any two Vocational Minor groups offered by any discipline. If the students choose any two Vocational Minor groups from Economics with Foreign Trade as given above, then the title of the Vocational Minor will be Economics.

GROUPING OF MINOR COURSES IN QUANTITATIVE ECONOMICS

(These two groups of minor courses may be taken by major students in Economics with Foreign Trade. If they take both the groups given below, then the name of the minor program is **QUANTITATIVE ECONOMICS**)

Group	Sl.	Course	Title	Sem	Total	Hrs/	Cre		Marks	5
No.	No.	Code		ester	Hrs	Week	dits	Inte	Exte	Total
								rnal	rnal	
1			Basic Quantitativ	e Tech	niques f	or Econ	omics			
	1	ECO1MN	Quantitative Techniques	1	60	4	4	30	70	100
		105	for Economic Analysis I							
	2	ECO2MN	Quantitative Techniques	2	60	4	4	30	70	100
		105	for Economic Analysis II							
	3	ECO3MN	Quantitative Techniques	3	60	4	4	30	70	100
		205	for Economic Analysis III							
	4	ECO8MN	Quantitative Techniques	8	60	4	4	30	70	100
		305	for Economic Analysis IV							
2			Elementary Tools	for Ec	onomic	Data Ar	nalysis			
	1	ECO1MN	Elementary Tools for	1	60	4	4	30	70	100
		106	Economic Data Analysis I							
	2	ECO2MN	Elementary Tools for	2	60	4	4	30	70	100
		106	Economic Data Analysis II							
	3	ECO3MN	Elementary Tools for	3	60	4	4	30	70	100
		206	Economic Data Analysis III							
	4	ECO8MN	Elementary Tools for	8	60	4	4	30	70	100
		306	Economic Data Analysis IV							

(Title of the Minor: QUANTITATIVE ECONOMICS)

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.

Sem	Course		Total	Hours/			Marks	
ester	Code	Course Title	Hours	Week	Credits	Inter nal	Exter nal	Total
1	ECO1FM 105	Multi-Disciplinary Course 1 – Security Trading Practices	45	3	3	25	50	75
2	ECO2FM 106	Multi-Disciplinary Course 2 – Digital Economy	45	3	3	25	50	75
3	ECO3FV 108	Value-Added Course 1 – Financial Literacy and Personal Finance	45	3	3	25	50	75
4	ECO4FV 110	Value-Added Course 2 – Digital Marketing and E- Commerce Strategies	45	3	3	25	50	75
5	ECO5FS 112	Skill Enhancement Course 2 – Big Data Analysis in Economics	45	3	3	25	50	75
6	ECO6FS 113	Skill Enhancement Course 3 – Economic Research with R	45	3	3	25	50	75

DISTRIBUTION OF GENERAL FOUNDATION COURSES IN ECONOMICS WITH FOREIGN TRADE

COURSE STRUCTURE FOR BATCH A1(B2) IN PATHWAY 5: DOUBLE MAJOR

A1: 68 credits in Economics with Foreign Trade (Major A)

B1: 68 credits in Major B

A2: 53 credits in Economics with Foreign Trade (Major A)

B2: 53 credits in Major B

The combinations available to the students: (A1 & B2), (B1 & A2)

Note: Unless the batch is specified, the course is for all the students of the class

Se	Course		Total	Hour			Mar	ks
mes ter	Code	Course Title	Hours	s/ Week	Credits	Inte rnal	Exte rnal	Total
	ECO1CJ 101 / ECO1MN 100 BBB1CJ	Core Course 1 in Major Economics with Foreign Trade– Principles of Economics	75	5	4	30	70	100
	101	Core Course 1 in Major B –	60/75	4/5	4	30	70	100
1	ECO1CJ 102 / ECO2CJ 102* / ECO2M N100*	Core Course 2 in Major Economics with Foreign Trade – Budget Analysis (for batch A1 only)	75	5	4	30	70	100
	ENG1F A 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
	ECO1FM 105	Multi-Disciplinary Course 1 in Economics with Foreign Trade – Security Trading Practices (for batch A1 only)	45	3	3	25	50	75
		Total		24/ 25	21			525
2	ECO2CJ 101 / ECO3CJ 201*	Core Course 3 in Major Economics with Foreign Trade – Analytical Tools for Economics – I	60	4	4	30	70	100
	BBB2CJ 101	Core Course 2 in Major B –	60/75	4/5	4	30	70	100

	BBB2CJ							
	102 / BBB1CJ 102	Core Course 3 in Major B – (for batch B2 only)	60/ 75	4/ 5	4	30	70	100
	ENG2F A 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
	ECO2FM 106	Multi-Disciplinary Course 2 in Economics with Foreign Trade – Digital Economy	45	3	3	25	50	75
		Total		22/24	21			525
	ECO3CJ 202 / ECO3M N200	Core Course 4 in Major Economics with Foreign Trade – Evolution of Economic Theories	60	4	4	30	70	100
	ECO3CJ 203 / ECO4CJ 203*	Core Course 5 in Major Economics with Foreign Trade – Intermediate Microeconomics	60	4	4	30	70	100
	BBB3CJ 201	Core Course 4 in Major B	60/75	4/5	4	30	70	100
3	BBB3CJ 202	Core Course 5 in Major B	60/75	4/5	4	30	70	100
	BBB3F M 106 / BBB2F M 106	Multi-Disciplinary Course 1 in B –	45	3	3	25	50	75
	ECO3FV 108	Value-Added Course 1 in Economics with Foreign Trade – Financial Literacy and Personal Finance (for batch A1 only)	45	3	3	25	50	75
		Total		22/24	22			550
4	ECO4CJ 204	Core Course 6 in Major Economics with Foreign Trade – Intermediate Macroeconomics	60	4	4	30	70	100
		Core Course 6 in Major B	60/75	4/5	4	30	70	100

	ECO4CJ 205	Core Course 7 in Major Economics with Foreign Trade – Analytical Tools for Economics – II (for batch A1 only)	60	4	4	30	70	100
	ECO4FV 110	Value-Added Course 2 in Economics with Foreign Trade – Digital Marketing and E- Commerce Strategies	45	3	3	25	50	75
	BBB4F V 110	Value-Added Course 1 in B –	45	3	3	25	50	75
	ECO4FS 112 / ECO5FS 112*	Skill Enhancement Course 1 in Economics with Foreign Trade – Big Data Analysis in Economics	45	3	3	25	50	75
		Total		21/ 22	21			525
	EFT5CJ 302	Core Course 8 in Major Economics with Foreign Trade – Foreign Trade Documentation and Logistics	60	4	4	30	70	100
		Core Course 7 in Major B –	60/75	4/5	4	30	70	100
	EFT5CJ 303	Core Course 9 in Major Economics with Foreign Trade – Export Marketing (for batch A1 only)	60	4	4	30	70	100
5		Elective Course 1 in Major Economics with Foreign Trade	60	4	4	30	70	100
		Elective Course 1 in Major B	60	4	4	30	70	100
	BBB5F S 112 / BBB4F S 112	Skill Enhancement Course 1 in B	45	3	3	25	50	75
		Total		23/ 24	23			575
6	EFT6CJ 304 / EFT8M N304	Core Course 10 in Major Economics with Foreign Trade – Economics of Shipping and Insurance Practices	60	4	4	30	70	100

		Core Course 8 in Major B –	60/75	4/5	4	30	70	100	
	BBB6CJ 305	Core Course 9 in Major B – (for batch B2 only)	60	4	4	30	70	100	
		Elective Course 2 in Major Economics with Foreign Trade	60	4	4	30	70	100	
		Elective Course 2 in Major B	60	4	4	30	70	100	
	ECO6FS 113	Skill Enhancement Course 2 in Economics with Foreign Trade – Economic Research with R (for batch A1 only)	45	3	3	25	50	75	
	EFT6CJ 349	Internship in Major Economics with Foreign Trade (Credit for internship to be awarded only at the end of Semester 6)	60		2	50	-	50	
		Total		23/ 24	25			625	
		Total Credits for Three Years	133			3325			
the n	For batch A1(B2), the course structure in semesters 7 and 8 is the same as for pathways $1 - 4$, except that the number of the core and elective courses is in continuation of the number of courses in the two categories completed at the end of semester 6.								

* The course code of the same course as used for the pathways 1 - 4

CREDIT DISTRIBUTION FOR BATCH A1(B2) IN PATHWAY 5: DOUBLE MAJOR

Semester	Major Courses in Economics with Foreign Trade	General Foundation Courses in Economics with Foreign Trade	Internship/ Project in Economics with Foreign Trade	Major Courses in B	General Foundation Courses in B	AEC	Total
1	4 + 4	3	-	4	-	3 + 3	21
2	4	3	-	4 + 4	-	3 + 3	21
3	4 + 4	3	-	4 + 4	3	-	22
4	4 + 4	3 + 3	-	4	3	-	21
5	4 + 4 + 4	-	-	4 + 4	3	-	23
6	4 + 4	3	2	4 + 4 + 4	-	-	25
	48	18	2	44	9	12	133

Total for Three Years	68			5	53	12	133		
	Major Courses in Economics with Foreign Trade	Minor Courses							
7		- 4+4+4	12*		-	-	20		
0	$\begin{array}{c c c c c c c c c c c c c c c c c c c $								
Total for Four Years	88 + 12 = 100	12					177		

COURSE STRUCTURE FOR BATCH B1(A2) IN PATHWAY 5: DOUBLE MAJOR

A1: 68 credits in Economics with Foreign Trade(Major A)

B1: 68 credits in Major B

A2: 53 credits in Economics with Foreign Trade (Major A)

B2: 53 credits in Major B

The combinations available to the students: (A1 & B2), (B1 & A2)

Note: Unless the batch is specified, the course is for all the students of the class

Se			Tota				Marks		
mes ter	nes Course Course Title		l Hou rs	Hours/ Week	Credi ts	Inte rnal	Ext ern al	Total	
	ECO1CJ 101 / ECO1MN 100	Core Course 1 in Major Economics with Foreign Trade – Principles of Economics	75	5	4	30	70	100	
1	BBB1CJ 101	Core Course 1 in Major B –	60/ 75	4/5	4	30	70	100	
	BBB1CJ 102 / BBB2CJ 102	Core Course 2 in Major B – (for batch B1 only)	60/ 75	4/ 5	4	30	70	100	

	ENG1F					25	50	
	A 101(1B)	Ability Enhancement Course 1 – English	60	4	3	23	50	75
		Ability Enhancement Course 2 – Additional Language	45	3	3	25	50	75
	BBB1F M 105	Multi-Disciplinary Course 1 in B – (for batch B1 only)	45	3	3	25	50	75
		Total		23/25	21			525
	ECO2CJ 101 / ECO3CJ 201*	Core Course 2 in Major Economics with Foreign Trade – Analytical Tools for Economics – I		4	4	30	70	100
	BBB2CJ 101	Core Course 3 in Major B –	60/ 75	4/5	4	30	70	100
2	ECO2CJ 102 / ECO2MN 100	Core Course 3 in Major Economics with Foreign Trade – Budget Analysis (for batch A2 only)	75	5	4	30	70	100
	ENG2F A 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
	ECO2FM 106	ECO2FM Multi-Disciplinary Course 1 in Economics with Foreign Trade		3	3	25	50	75
		Total		23/24	21			525
	ECO3CJ 202 / ECO3M N200	Core Course 4 in Major Economics with Foreign Trade – Evolution of Economic Theories	60	4	4	30	70	100
3	ECO3CJ 203 / ECO4CJ 203*	Core Course 5 in Major Economics with Foreign Trade – Intermediate Microeconomics	60	4	4	30	70	100
	BBB3CJ 201	Core Course 4 in Major B	60/ 75	4/5	4	30	70	100
	BBB3CJ 202	Core Course 5 in Major B	60/ 75	4/5	4	30	70	100

	BBB3F M 106 / BBB2F M 106	Multi-Disciplinary Course 2 in B –	45	3	3	25	50	75
	BBB3F V 108	Value-Added Course 1 in B – (for batch B1 only)	45	3	3	25	50	75
		Total		22/24	22			550
	ECO4CJ 204	Core Course 6 in Major Economics with Foreign Trade – Intermediate Macroeconomics	60	4	4	30	70	100
		Core Course 6 in Major B	60/ 75	4/5	4	30	70	100
		Core Course 7 in Major B – (for batch B1 only)	60/ 75	4/5	4	30	70	100
4	ECO4FV 110	Value-Added Course 1 in Economics with Foreign Trade – Digital Marketing and E- Commerce Strategies	45	3	3	25	50	75
	BBB4F V 110	Value-Added Course 2 in B –	45	3	3	25	50	75
	ECO4FS 112 / ECO5FS 112*	Skill Enhancement Course 1 in Economics with Foreign Trade – Big Data Analysis in Economics	45	3	3	25	50	75
		Total		21/23	21			525
	EFT5CJ 302	Core Course 7 in Major Economics with Foreign Trade – Foreign Trade Documentation and Logistics	60	4	4	30	70	100
5		Core Course 8 in Major B –	60/ 75	4/5	4	30	70	100
		Core Course 9 in Major B – (for batch B1 only)	60	4	4	30	70	100
		Elective Course 1 in Major Economics with Foreign Trade	60	4	4	30	70	100
		Elective Course 1 in Major B	60	4	4	30	70	100

	BBB5F S 112 / BBB4F S 112	Skill Enhancement Course 1 in B	45	3	3	25	50	75
		Total		23/24	23			575
	EFT6CJ 304 / EFT8M N304	Core Course 8 in Major Economics with Foreign Trade – Economics of Shipping and Insurance Practices	60	4	4	30	70	100
		Core Course 10 in Major B –	60/ 75	4/ 5	4	30	70	100
6	EFT6CJ 305 / EFT8M N305	Core Course 9 in Major Economics with Foreign Trade – Foreign Trade Financing and Procedure (for batch A2 only)	75	5	4	30	70	100
		Elective Course 2 in Major Economics with Foreign Trade	60	4	4	30	70	100
		Elective Course 2 in Major B	60	4	4	30	70	100
	BBB6F S 113	Skill Enhancement Course 2 in B – (for batch B1 only)	45	3	3	25	50	75
	BBB6CJ 349	Internship in Major B (Credit for internship to be awarded only at the end of Semester 6)	60		2	50	-	50
		Total		24/25	25			625
	1	Total Credits for Three Years			133			3325

To continue to study Economics with Foreign Trade in semesters 7 and 8, batch B1(A2) needs to earn additional 15 credits in Economics with Foreign Trade to make the total credits of 68. Suppose this condition is achieved, and the student of batch B1(A2) proceeds to the next semesters to study Economics with Foreign Trade. The course structure in semesters 7 and 8 is the same as for pathways 1 - 4, except that the number of the core and elective courses is in continuation of the number of courses in the two categories completed at the end of semester 6, taking into account the number of courses in Economics with Foreign Trade taken online to earn the additional 15 credits.

* The course code of the same course as used for the pathways 1 - 4

CREDIT DISTRIBUTION FOR BATCH B1(A2)	
IN PATHWAY 5: DOUBLE MAJOR	

	` 				-							
			Major	General	AEC							
		Internship/	Courses in	Foundation								
Major	General	Project in B	Economics	Courses in								
Courses in			with	Economics								
В			Foreign	with		Total						
			Trade	Foreign								
				Trade								
4 + 4	3	-	4	-	3 + 3	21						
4	-	-	4 + 4	3	3 + 3	21						
4 + 4	3 + 3	-	4 + 4	-	-	22						
4 + 4	3	-	4	3 + 3	-	21						
4 + 4 + 4	3	-	4 + 4	-	-	23						
4 + 4	3	2	4 + 4 + 4	-	-	25						
48	18	2	44	9	12	133						
	(9		-	2	10	122						
	00		2	55	12	133						
Major	Minor											
Courses in	Courses											
В												
4 + 4 + 4 +	-			-	-	20						
4 + 4						20						
4 + 4 + 4	4 + 4 + 4	12*		-	-	24						
- - -			* Instead of three Major courses									
- - -		stead of three	Major courses	5								
		stead of three	Major courses									
88 + 12 = 100		stead of three	Major courses			177						
	Courses in B 4 + 4 4 + 4 4 + 4 + 4 + 4 4 + 4 + 4 + 4 4 + 4	Major Courses in BGeneral Foundation Courses in B $4+4$ 3 $4+4$ 3 $4+4$ 3 $4+4$ 3 $4+4$ 3 $4+4$ 3 $4+4$ 3 $4+4$ 3 $4+4$ 3 $4+4$ 3 $4+4$ 3 $4+4$ 4 $4+4$ 4 $4+4$ 4 $4+4+4$ 4 $4+4+4+4$ $ 4+4+4+4+4+4+4+4+4+4+4+4+4+4+4+4+4+4+4+$	Major Courses in BGeneral Foundation Courses in BInternship/ Project in B $4 + 4$ 3 $ 4 + 4$ 3 $ 4 + 4$ $3 + 3$ $ 4 + 4$ $3 + 3$ $ 4 + 4$ 3 $ 4 + 4$ 3 $ 4 + 4$ 3 $ 4 + 4$ 3 $ 4 + 4$ 3 $ 4 + 4$ 3 $ 4 + 4$ 3 2 48 18 2 68Major Courses in B $4 + 4 + 4 + 4$ $ 4 + 4 + 4 + 4$ $-$	Major Courses in BGeneral Foundation Courses in BInternship/ Project in BMajor Courses in B $4+4$ 3-4 $4+4$ 3-4 $4+4$ 3-4+4 $4+4$ 3-4+4 $4+4$ 3-4+4 $4+4$ 3-4+4 $4+4$ 3-4+4 $4+4$ 3-4+4 $4+4$ 3-4+4 $4+4$ 3-4+4 $4+4$ 555Major Courses in BMinor Courses5 B $4+4+4+4$ $4+4+4+4+4$ $4+4+4+4+4+4+4+4+4+4+4+4+4+4+4+4+4+4+4+$	Major Courses in BGeneral Foundation Courses in BInternship/ Project in BCourses in Economics with Foreign TradeFoundation Courses in B $4 + 4$ 3-4- $4 + 4$ 3-4 + 4- $4 + 4$ 3-4 + 4- $4 + 4$ 3-4 + 4- $4 + 4$ 3-4 + 4- $4 + 4$ 3-4 + 4- $4 + 4$ 3-4 + 4- $4 + 4$ 3-4 + 4- $4 + 4$ 3-4 + 4- $4 + 4$ 3-4 + 4- $4 + 4$ 3-53-Major Courses in BMinor Courses $4 + 4 + 4 + 4$ $4 + 4 + 4$ $4 + 4 + 4 + 4$ $4 + 4 + 4 + 4$ $4 + 4 + 4 + 4$ $4 + 4 + 4 + 4$ $4 + 4 + 4 + 4$ $4 + 4 + 4 + 4$ $4 + 4 + 4 + 4$ $4 + 4 + 4 + 4$ $4 + 4 + 4 + 4$ $4 + 4 + 4 + 4$ $4 + 4 + 4 + 4$ $4 + 4 + 4 + 4$ $4 + 4 + 4 + 4$ $4 + 4 + 4 + $	Major Courses in BGeneral Foundation Courses in BInternship/ Project in BMajor Courses in Foreign TradeGeneral Foundation Courses in Economics with Foreign TradeAEC Foundation Courses in Economics with Foreign Trade $4 + 4$ 3-4-3 + 3 $4 + 4$ 3-4 + 43 + 3 $4 + 4$ 3 + 3-4 + 43 + 3 $4 + 4$ 3-4 + 4- $4 + 4$ 3-4 + 4- $4 + 4$ 324 + 4- $4 + 4$ 324 + 4- $4 + 4$ 324 + 4- $4 + 4$ 324 + 4- $4 + 4$ 324 + 4- $4 + 4$ 324 + 4- $4 + 4$ 324 + 4- $4 + 4$ 324 + 4- $4 + 4$ 324 + 4- $4 + 4$ 324 + 4- $4 + 4$ 324 + 4- $4 + 4$ 324 + 4- $4 + 4$ $4 + 4 + 4$ 68 $4 + 4 + 4 + 4$ $4 + 4 + 4 + 4$ $4 + 4 + 4 + 4$ $4 + 4 + 4 + 4$ $4 + 4 + 4$ <td< td=""></td<>						

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 with Foreign Trade 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 with Foreign Trade either completely in English or in Malayalam.

SI. No.	Nature o	of the Course		ation in Marks of the total) On the other 4 modules	External Exam on 4 modules (Marks)	Total 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	Internal Marks for the Theory Part of a Major / Minor Course of 4-credits						
	of Theory Part of a Major / Minor Course	Theory	' Only	Theory + Practical				
		4 Theory Modules	Open- ended Module	4 Theory Modules	Practical			
1	Test paper/ Mid- semester Exam	10	4	5	-			

2	Seminar/ Viva/ Quiz	6	4	3	-	
3	Assignment	4	2	2	-	
		20	10	10	20*	
Total		3()	30		

* 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 of Credit-1 in a Major / Minor Course	Marks for Practical	Weightage
1	Continuous evaluation of practical/ exercise performed in practical classes by the students	10	50%
2	End-semester examination and viva-voce to be conducted by teacher-in-charge along with an additional examiner arranged internally by the Department Council	7	35%
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 by the University based on 10-point grading system (refer section 5).

Duration	Туре	Total No. of Questions	No. of Questions to be Answered	Marks for Each Question	Ceiling of Marks
2 Hours	Short Answer	10	8 - 10	3	24
	Paragraph/ Problem	8	6 - 8	6	36
	Essay	2	1	10	10
				Total Marks	70

PATTERN OF QUESTION PAPER FOR MAJOR AND MINOR COURSES

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

- 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.
- 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 af EFTted 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 organisational 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 organisation. The project report shall be evaluated by faculty member delegated by the department council.
 - Students can choose following organisations 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 Organisations/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, Organisations 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 university 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 Evalua	Marks for Internship 2 Credits	Weightage	
1	Continuous evaluation of internship through interim	Acquisition of skill set	10	
2	presentations and reports by the committee internally	Interim Presentation and Viva-voce	5	40%
3	constituted by the Department Council	Punctuality	5	
4	Report of Institute Visit/ Stu	5	10%	
5	End-semester viva-voce	Quality of the work	6	
6	examinationtobeconductedbythecommitteeinternally	Presentation of the work	5	35%
7	constituted by the Department Council	Viva-voce	6	
8	Evaluation of the day-to-da internship supervisor, and f the end semester viva–voce committee internally constit Council	8	15%	
		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 University/ 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.

- 6. 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 & University Register Number
 - d. Name of the College
 - e. Month and year of the project report submission
 - \succ 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
- l. 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
 - 6. 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 University.
- 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 (Honours/ Honours with Research)	Weightage
Continuous evaluation of project work through interim presentations and reports by the committee internally constituted by the Department Council	90	30%
End-semester viva-voce examination to be conducted by the external examiner appointed by the university	150	50%
Evaluation of the day-to-day records and project report submitted for the end-semester viva–voce examination conducted by the external examiner	60	20%
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

Sl. No	Components of Evaluation of Project	Marks for the Project (Honours/ Honours with Research) 12 credits
1	Content and relevance of the Project,	
	Methodology, Quality of analysis, and	50
	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 with Foreign Trade are with only theory component.

4.1. INTERNAL EVALUATION

Sl. No.	Components of Internal Evaluation of a General Foundation Course in	Internal Marks of a General Foundation Course of 3-credits in Economics with Foreign Trade			
	Economics with Foreign Trade	4 Theory Open-ended Modu Modules			
1	Test paper/ Mid-semester Exam	10	2		
2	Seminar/ Viva/ Quiz	6	2		
3	Assignment	4	1		
	·	20	5		
	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 University based on 10-point grading system (refer section 5).

Duration	Туре	Total No. of Questions	No. of Questions to be Answered	Marks for Each Question	Ceiling of 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					

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.

Sl. No.	Percentage of Marks (Internal & External Put Together)	Description	Letter Grade	Grade Point	Range of Grade Points	Class
1	95% and above	Outstanding	0	10	9.50 - 10	First Class
2	Above 85% and below 95%	Excellent	A+	9	8.50 – 9.49	with
3	75% to below 85%	Very Good	А	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

LETTER GRADES AND GRADE POINTS

- 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) / Σi (Ci)

where Ci is the number of credits of the ith course and Gi is the grade point scored by the student in the ith 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.

$$SGPA = \frac{Sum of the credit points of all the courses in a semester}{Total credits in that semester}$$

Semester	Course	Credit	Letter	Grade	Credit Point
			Grade	point	(Credit x Grade)
Ι	Course 1	3	А	8	3 x 8 = 24
Ι	Course 2	4	B+	7	4 x 7 = 28
Ι	Course 3	3	В	6	3 x 6 = 18
Ι	Course 4	3	0	10	$3 \ge 10 = 30$
Ι	Course 5	3	С	5	3 x 5 = 15
Ι	Course 6	4	В	6	4 x 6 = 24
	Total	20			139
	SGPA				139/20 = 6.950

ILLUSTRATION - COMPUTATION OF SGPA

• 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 CUFYUGP shall be calculated by the following formula.

$$CGPA = \frac{Sum of the credit points of all the courses in six semesters}{Total credits in six semesters (133)}$$

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

$$CGPA = \frac{Sum of the credit points of all the courses in eight semesters}{Total credits in eight semesters (177)}$$

- 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 with Foreign Trade

Programme	B.A. Economics with	B.A. Economics with Foreign Trade					
Course Title	PRINCIPLES OF EC	CONOMICS					
Type of Course	Major						
Semester	Ι	I					
Academic Level	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 fundamental aspects of economics.						
	economic systems and	l other funda	mental aspect	s of economic	cs.		

CO	CO Statement	Cognitive Level*	Knowledge Category#	Evaluation Tools used		
CO1	Understand the basic principles of economics and its real-world applications.	U	С	Instructor-created exams / Quiz		
CO2	Develop and practice the skill of thinking like an economist.	Ар	Р	Practical Assignment / Observation of Practical Skills		
CO3	Help the beginning student master the principles essential for understanding the economizing problem, specific economic issues, and policy alternatives.	U	Р	Seminar Presentation / Group Discussion		
CO4	Understand and apply the economic perspective and reason accurately and objectively about economic matters.	Ap	С	Instructor-created exams / Home Assignments		
CO5	Instil in students a fascination with both the functioning of the economy and the power and breadth of economics	U	F	Writing assignments		
CO6	Demonstrate critical thinking and problem-solving skills by applying the acquired knowledge to address complex economic challenges in the contemporary world.	Ар	Р	Viva Voce		
# - Fa	 * - 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	SYLLA Unit	Content	Hrs	Marks
		Basic Principles of Economics	10	
	How	People Make Decisions		
	1	People Face Trade-Offs	1	
	2	The Cost of Something Is What You Give	1	
	3	Rational People Think at the Margin	1	
	4	People Respond to Incentives	1	
		People Interact	1	
	5	Trade Can Make Everyone Better Off	1	
Ι	6	Markets Are Usually a Good Way to Organize Economic	1	15
-	0	Activity	1	15
	7	Governments Can Sometimes Improve Market Outcomes	1	
	-	the Economy as a Whole Works	1	
	110 w		1	
	8	A Country's Standard of Living Depends on its Ability to Produce Goods and Services	1	
	0		1	
	9	Prices Rise When the Government Prints Too Much Money	1	
	10	Society Faces a Short-Run Trade-Off between Inflation and	1	
		Unemployment	10	
		Thinking like an Economist	10	
		The Economist as Scientist: The Scientific Method:		
		Observation, Theory, and More Observation, The Role of		
	11	Assumptions, Economic Models, The Circular-Flow	4	
		Diagram, The Production Possibilities Frontier,		
II		Microeconomics and Macroeconomics;		15
		The Economist as Policy Adviser: Positive versus		
	12	Normative Analysis, Why Economists' Advice Is Not	3	
		Always Followed;		
		Why Economists Disagree: Differences in Scientific		
	13	Judgments, Differences in Values, Perception versus	3	
		Reality		
		Limits, Alternatives, and Choices	10	
		The Economic Perspective: Scarcity and Choice,		
	14	Purposeful Behaviour, Marginal Analysis: Comparing	3	
		Benefits and Costs		
III	15	Individual's Economizing Problem	2	15
	16	Society's Economizing Problem	2	
		Unemployment, Growth, and the Future: A Growing		
	17	Economy, Present Choices and Future Possibilities, A	3	
		Qualification: International Trade		
		The Market System	15	
	18	Economic Systems: Laissez-Faire Capitalism, The	2	
	10	Command System, The Market System	2	
		Characteristics of the Market System: Private Property,		
IV		Freedom of Enterprise and Choice, Self-Interest,		25
1 1	19	Competition, Markets and Prices, Technology and Capital	2	43
		Goods, Specialization, Use of Money, Active but Limited		
		Government		
	20	Five Fundamental Questions: What Will Be Produced?	4	
	20	How Will the Goods and Services Be Produced? Who Will	4	

		Get the Output? How Will the System Accommodate Change? How Will the System Promote Progress?			
	21 The "Invisible Hand" : The Demise of the Comm Systems, The Incentive Problem				
	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		
		30			
		Discussion based on different economic systems prevailing in the world			
V		Practical Assignments on economic decision making in different economies in the world			
		Seminar on the influence of institutions, regional cooperations, blocks and international cartels on economic policies			

Note: The syllabus has five modules. There should be total 22 units in the first four modules together, composed of the theory topics. The number of units in the last module can vary. There are 45 instructional hours for the first four modules and 30 hrs for the final one. Module V is designed to equip students with practical skills. The 20 marks for the evaluation of practical will be based on Module V. Internal assessments (30 marks) are split between the practical module (20 marks) and the first four modules (10 marks). The end-semester examination for the theory part will be based on the 22 units in the first four modules. The 70 marks shown in the last column, distributed over the first four modules, are only for the external examination.

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: Microeconomics. Macmillan.
- 3. Sowell, T. (2015). Basic Economics: A Common Sense Guide to the Economy, FIFTH EDITION, 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	PSO7	PSO8	PSO9
CO 1	3	-	-	-	-	-	-	3	-
CO 2	-	2	2	-	-	-	3	2	-
CO 3	-	3	2	-	1	-	1	1	-
CO 4	-	3	-	-	-	-	-	2	-
CO 5	-	-	_	_	_	_	2	3	_
CO 6	-	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	\checkmark	\checkmark		\checkmark
CO 2	\checkmark		\checkmark	\checkmark
CO 3	\checkmark	\checkmark		\checkmark
CO 4	\checkmark	\checkmark		\checkmark
CO 5		\checkmark	\checkmark	
CO 6			\checkmark	

Programme	B.A. Economics with	B.A. Economics with Foreign Trade						
Course Title	BUDGET ANALYSIS	S						
Type of Course	Major							
Semester	II	II						
Academic Level	100 - 199							
Course Details	Credit	Lecture per week	Tutorial per week	Practical per week	Total Hours			
	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 process with reference to Central Budget in India.							

CO	CO Statement	Cognitive Level*	Knowledge Category#	Evaluation Tools used			
CO1	Understand the basic concepts and documents of budgeting.	U	С	Instructor- created exams / Quiz			
CO2	Develop and practice the skill of interpretation of budget.	Ap	Р	Practical Assignment / Observation of Practical Skills			
CO3	Understand the roles and responsibilities of various stakeholders in the budget process.	U	Р	Seminar Presentation / Group Discussion			
CO4	Appreciate the insights of public finance in the real world	Ap	С	Instructor- created exams / Home Assignments			
CO5	Develop critical thinking about policy issues by emphasizing the links between economic analysis and current political issues.	Ap	Р	Viva Voce			
	* - Remember (R), Understand (U), Apply (Ap), Analyse (An), Evaluate (E), Create (C)						
	# - Factual Knowledge(F) Conceptual Knowledge (C) Procedural Knowledge (P) Metacognitive						
Know	ledge (M)						

Module	Unit	Content	Hrs	Marks
		Introduction to the Budget	10	
	1	Budget: Definition, Budget in India	1	
		Features of Budget: Budget is prepared on Cash Basis,		
	2	Rule of Lapse, Realistic Estimation, Budget to be on	3	
	Z	Gross/Net Basis, Form of Estimates to correspond to	3	
		Accounts, Estimates to be on Departmental Basis		
Ι		Scope of Budget: Budget Estimates, Revised Estimates,		15
L	3	Actuals of the year preceding the current year,	3	15
	5	Consolidated Fund of India, Contingency Fund of India and	5	
		the Public Account, Revenue account and Capital account		
		Budget documents: Annual Financial Statement (AFS),		
	4	Demands for Grants (DG), Finance Bill, Statements	3	
	4	mandated under FRBM Act, Expenditure Budget, Receipt	5	
		Budget, Expenditure Profile		
		Roles and Responsibilities	10	
		Role of Legislature: Role of Parliament, President's		
	5	Approval, Summary for The President, Summary for The	2	
		Cabinet		
	6	Budget Presentation and Bills: Budget Presentation,		
		General Discussions, Cut-Motions, Guillotine,	2	
		Appropriation Bill, Finance Bill, Vote on Account		
		Role of Executive: Role of The Executive in The Budget		
II	7 8	Process, Role of Ministry of Finance, Role of Budget	2	15
		Division, Department of Expenditure, Administrative	2	
		Ministries, Financial Advisers		
		Role of Constitutional Authorities: Controller General of		
		Accounts, Niti Aayog, Finance Commission, Reserve Bank	2	
		of India, Comptroller and Auditor General of India		
		Parliamentary Control: Estimates Committee,		
	9	Department Related Standing Committees, Public	2	
		Accounts Committee		
	10	Budget Process	10	
	10	Budget Circular	1	
	11	Estimates of Receipts: Revenue Receipts, Estimates of	1	
		Capital Receipts		
		Estimates of Expenditure: General Guidelines for		
	12	Preparation of Estimates of Expenditure, Information for	2	
		Pre-Budget Discussions, Pre-Budget Discussions &		
TTT	10	Finalization of Provisional Estimates	1	15
III	13	Provisions for North Eastern Region and Sikkim	1	15
		Special Instructions for the Composite Demand for Civil 'Pensions': Arrangements for submission of		
	14	Civil 'Pensions': Arrangements for submission of	1	
		estimates, Compassionate Fund, Central Government		
		Employees' Insurance Scheme Estimates to be included in Demands for Grants		
	15		1	
		Controlled by Budget Division Instructions related to allocation for SC/ ST sub-		
	16		1	
	10	component		

	17	Disclosures under FRBM Act: Guarantees given by the		
	17	Government, Tax Revenues raised but not realized, Arrears	2	
		of Non -Tax Revenues, Asset Register		
		Budget Finalization	15	
	18	Budget Activities	1	
	19	Timelines for Budget Activities	2	
IV	20	Scrutiny of Statement of Budget Estimates (SBE): Centre's Expenditure, Centrally Sponsored Schemes and other Transfers, Expenditure Type (voted expenditure, charged expenditure, recovery, receipt)	5	25
	21 Outcome Budget / Output-Outcome Monitoring Framework (OOMF)		2	
	22	Budget in Parliament: Lok Sabha, Rajya Sabha	5	
	Open Ended Module			
		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		
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		

Note: The syllabus has five modules. There should be total 22 units in the first four modules together, composed of the theory topics. The number of units in the last module can vary. There are 45 instructional hours for the first four modules and 30 hrs for the final one. Module V is designed to equip students with practical skills. The 20 marks for the evaluation of practical will be based on Module V. Internal assessments (30 marks) are split between the practical module (20 marks) and the first four modules (10 marks). The end-semester examination for the theory part will be based on the 22 units in the first four modules. The 70 marks shown in the last column, distributed over the first four modules, are only for the external examination.

REFERENCE:

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). *Financial Budget Manual.*

MAPPING OF COS WITH PSOS:

	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6	PSO7	PSO8	PSO9
CO 1	3	-	-	-	-	-	-	-	-
CO 2	-	-	2	-	-	-	3	1	-
CO 3	-	-	-	-	-	-	-	3	-
CO 4	-	-	-	-	-	-	3	3	-
CO 5	-	2	-	-	2	-	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	\checkmark	\checkmark		\checkmark
CO 2	\checkmark		\checkmark	\checkmark
CO 3	\checkmark	\checkmark		\checkmark
CO 4	\checkmark	\checkmark		\checkmark
CO 5		\checkmark	\checkmark	

Programme	B.A. Economics with	B.A. Economics with Foreign Trade					
Course Title	ANALYTICAL TOO	ANALYTICAL TOOLS FOR ECONOMICS I					
Type of Course	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		
Pre-requisites	Basic Economics Cour	rse of 0 – 99	level		•		
Course Summary	Students shall acquire in-depth knowledge and able to explain the concepts of						
	sets, functions, Differentiation, Integration and their applications in						
	Economics.						

СО	CO Statement	Cognitive Level*	Knowledge Category#	Evaluation Tools used			
CO1	To Understand the basic concept of set theory and functions	U	С	Instructor-created exams / Quiz			
CO2	To Apply differentiation in solving economic problems	Ap	Р	Practical Assignment / Observation of Practical Skills			
CO3	To apply integration in solving economic problems	U	Р	Seminar Presentation / Group Discussion			
CO4	To analyse relationship between economic variables mathematically, analyze, optimize and interpret them	An	Р	Instructor-created exams / Home Assignments			
CO5	To equip the students to identify a problem investigate to find out						
* - 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
		Set theory and Functions	10	
	1	Set theory: concepts, set operations, relations, functions and their properties	4	
Ι	2	Elementary types of functions – linear, quadratic, cubic, polynomial, exponential and logarithmic	3	15
	3	Graphs of functions-linear and quadratic algebraic functions	1	
	4	Applications of functions in Economics	2	
		Differential Calculus	18	
	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	
II	8	Rate of change- Slope of a curve	2	25
	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	
		Integral Calculus	10	15
	14	Meaning of integral, The Definite Integral, Rules of Integration, Integration by substitution	3	
	15	Integration by parts	2	
III	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]
		Linear Models and Matrix	10	
	19	Matrix: Meaning, Types and operations	2	1
IV	20	Linear Models and Matrix Algebra and their Applications in Economics	3	- 15
	21	Rank of a Matrix- Solving linear equations using Matrix Inverse	2	
	22	Determinants, Properties of Determinants and Cramer's Rule and their applications	3	
		Open Ended Module	12	1
V	1	Develop critical thinking and problem-solving skills by applying statistical methods in Economic theories		

2	Discussion based on statistical tools	
3	Practical Assignments	
4	Seminar	

Note: The course is divided into five modules, with four modules together having total 22 fixed units and one open-ended module with a variable number of units. There are total 48 instructional hours for the fixed modules and 12 hours for the open-ended one. Internal assessments (30 marks) are split between the open-ended module (10 marks) and the fixed modules (20 marks). The final exam, however, covers only the 22 units from the fixed modules. The 70 marks shown in the last column, distributed over the first four modules, are only for the external examination.

REFERENCE:

- 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)
- 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.

	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6	PSO7	PSO8	PSO9
CO 1	3	-	-	-	-	-	-	-	-
CO 2	-	-	-	1	-	-	2	-	3
CO 3	-	-	-	1	-	-	2	-	3
CO 4	-	-	-	1	-	-	2	-	3
CO 5	-	2	-	-	-	-	2	-	3

MAPPING OF COS WITH PSOS:

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	\checkmark	\checkmark		\checkmark
CO 2	\checkmark		\checkmark	\checkmark
CO 3	\checkmark	\checkmark		\checkmark
CO 4	\checkmark	\checkmark		\checkmark
CO 5		\checkmark	\checkmark	

Programme	B.A. Economics with Foreign Trade						
Course Title	EVOLUTION OF EC	EVOLUTION OF ECONOMIC THEORIES					
Type of Course	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		
Pre-requisites	Basic Economics Courses of 100 – 199 level						
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			
CO1	Acquire 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	Trace the evolution of major ideas through time	An	Р	Seminar Presentation / Group Discussion			
CO4	Discuss the influence and value of different writers and their contributions	Ap	Р	Instructor-created exams / Home Assignments			
CO5	Place theories and ideas Practical						
# - Fa	emember (R), Understand (U), A actual Knowledge(F) Conceptua vledge (M)						

Module	Syllai Unit	Content	Hrs	Marks
		People and Markets (Microeconomics) – Market	13	
		mechanism, Competition, Price and Utility	15	
	The I	nvisible Hand of the Market		
	1	From Mercantilism to Market Economy	1	
	2	Monopolies and the Cournot Point	1	
	Com	petition in Theory and in Practice		
	3	From "Perfect Competition" to Dynamic Competition	1	
	4	Competition Policy: Harvard versus Chicago	1	
	5	Natural Monopolies and Government Market Access Barriers	1	
Ι	Price	s, Costs and Profits		19
	6	Alfred Marshall's Scissor Theorem	1	
	7	The Laws of Large-Scale Production and Their Limits	1	
	8	Turgot's Law of Returns and Marshall's Producers' Surplus	1	
	9	Trade Margins and Speculation	1	
	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,			
	13	Consumer Sovereignty and Merit Goods	1	
		ple and Markets (Microeconomics) –Market Failure,	10	
		Wage and Capital	10	
		Causes of Market Failure: Should the State Act as Night		
		Watchman? Natural Collective Goods, The Non-		
	1.4	Applicability of the Exclusion Principle, Externalities and	4	
	14	Environmental Problems, Are Environmental Taxes and	4	
		Charges Unjust? Voluntary Negotiations: The Coase		
		Theorem, The Environment and Politics		
II		Fair Wages and the Right to Work: Thunen's Equation		15
		for a Natural Wage, Karl Marx's Labour Theory of Value,		
	15	Problems of Socialism, The Pareto Curve, Minimum	3	
		Wages and Maximum Income Limits? Productivity and		
		Wage Rates		
		The Mystery of Capital and Interest: Interest Rates and		
	16	Bans on Interest, Who do Capital Gains Belong to? Bohm-	3	
	16	Bawerk's Third Reason, Paradoxes of Capital Theory,	3	
		Natural Interest Rates and Monetary Policy		
	Cris	ses of Market Economies (Macroeconomics) – Money	13	
		and Business Cycle	13	
		How Does Money Enter the Economy? From Shell		
	17	Money to the Peel Banking Act, Money Supply and Price	3	
III		Levels		19
		Business Cycles and Shortages in Demand: Francois		
		Quesnay's Tableau Economique, The Say Theorem,	_	
	18			
	18	Marx's Theory of Crises and the Theory of the Purchasing	5	

	19 Criss	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 Business Cycle	5	
	Crise	es of Market Economies (Macroeconomics) – Inflation, Unemployment and Growth	12	
	20	Inflation and Unemployment: The Quantity Theory, The Controversy about the Philips Curve, The Bullionist Controversy	4	
IV	21 Growth and Wealth: In Praise of Saving, Shortages of Capital and Underdevelopment, The Golden Rule of Accumulation, The Connection Between Interest Rates and Growth Rates		4	17
	22	Limits of Economic Growth: 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	
		Open Ended Module	12	
		Discussion based on reports about economic problems such as high unemployment or rising government debt.		
V		Practical Assignments to trace the evolution of major ideas through time		
		Seminar on the influence and value of different writers and their contributions to the development of modern economic thought		

Note: The course is divided into five modules, with four modules together having total 22 fixed units and one open-ended module with a variable number of units. There are total 48 instructional hours for the fixed modules and 12 hours for the open-ended one. Internal assessments (30 marks) are split between the open-ended module (10 marks) and the fixed modules (20 marks). The final exam, however, covers only the 22 units from the fixed modules. The 70 marks shown in the last column, distributed over the first four modules, are only for the external examination.

REFERENCE:

1. 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 development 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, Keynesian, and Marxian. MIT Press.
- 4. Buchholz, T. G. (2007). New Ideas from Dead Economists: An Introduction to Modern Economic Thought. Penguin.

MAPPING OF COS WITH PSOS:

	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6	PSO7	PSO8	PSO9
CO 1	3	-	-	-	2	-	-	2	-
CO 2	3	-	-	-	-	-	-	-	-
CO 3	-	-	1	-	-	-	3	-	-
CO 4	-	-	-	2	-	-	3	-	-
CO 5	-	-	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	\checkmark	\checkmark		\checkmark
CO 2	\checkmark			\checkmark
CO 3	\checkmark	\checkmark		\checkmark
CO 4	\checkmark	\checkmark		\checkmark
CO 5		\checkmark		

Programme	B.A. Economics with Foreign Trade						
Course Title	INTERMEDIATE MICROECONOMICS						
Type of Course	Major	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 o	f 100 – 199	level				
Course Summary	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.						

OURSE OUTCOMES (CO):

СО	CO Statement	Cognitive Level*	Knowledge Category#	Evaluation Tools used				
CO1	To understand the core concepts and methods of microeconomics	U	С	Instructor-created exams / Practical Assignment				
CO2	Understand the basic elements of consumption and production theories.	U	F	Writing assignments / Quiz				
CO3	To analyze the consumer choice under different conditions of preferences.	An	Р	Observation of Practical Skills / Group Discussion				
CO4	Apply the economic perspective and reason accurately in relation to different competitive market conditions.	Ap	Р	Observation of Practical Skills / Home Assignments				
CO5	To solve and interpret stylized problems based on microeconomic models.	An	Р	Group Discussion / Instructor-created exams				
CO6	Use microeconomic models to evaluate real-world microeconomic phenomena and issues.	Е	М	Practical Assignment Viva Voce				
* - Re	* - 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	Unit Content		Marks
		Choice Under Certainty	10	
				_
	1	Optimal Choice determination: Budget Line – Marginal Rate of Substitution;	2	
	2	Consumer's Equilibrium using indifference curves -	2	
Ι	3	Interior Optimum - Boundary Optimum.	2	15
	4	Optimisation: Perfect Substitutes and Perfect Complements.	2	
	5	Estimating Utility Functions and implication of the MRS condition.	2	
		Comparative Statics in Consumer Theory	14	
	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	
II	9	Revealed Preference Approach: WARP and SARP;	2	20
	10	The total change in demand: The substitution effect and income effect with suitable examples.	2	
	11	Rates of changes	1	
	12	Elasticity-Price elasticity of demand-The elasticity of linear demand curve-Income elasticity of demand; cross elasticity of demand;	2	
	13	Consumer Surplus.	1	
		Optimisation In Production	12	
ш	14	Short run and long run production function - Cost curves- Profit Maximisation in the Short Run and Long Run.	5	17
	15	Cost Minimisation - Returns to Scale and the Cost Function	5	'
	16	Cobb Douglas Production Function	2	

		The Analysis of Competitive Markets	12	
	17	Short run and long run Equilibrium in perfectly competitive firm and industry	3	
IV	18	18Monopoly – linear demand curve – Mark up pricing – Inefficiency of monopoly-Dead Weight Loss-		18
IV	19	Price Discrimination-bundling-Two-part tariffs	2	10
	20	Monopolistic Competition-Product differentiation-selling cost	2	
	21	Oligopoly-collusive versus non collusive oligopoly-	2	
	22	Kinked demand curve model.	1	
		Open ended module	12	
		Discussion based on different market structures in the world		
V		Seminars to analyse changing equilibrium conditions under different market structures.		
		Practical Assignments to compare and relate market of different products with different market structures.		

Note: The course is divided into five modules, with four modules together having total 22 fixed units and one open-ended module with a variable number of units. There are total 48 instructional hours for the fixed modules and 12 hours for the open-ended one. Internal assessments (30 marks) are split between the open-ended module (10 marks) and the fixed modules (20 marks). The final exam, however, covers only the 22 units from the fixed modules. The 70 marks shown in the last column, distributed over the first four modules, are only for the external examination.

REFERENCE:

- 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	PSO7	PSO8	PSO9
CO 1	3	1	-	-	-	-	-	1	1
CO 2	3	1	-	1	-	-	1	1	1
CO 3	3	2	-	1	-	-	1	2	1
CO 4	-	3	2	1	1	-	1	2	2
CO 5	2	1	-	1	-	-	2	2	3
CO 6	-	2	2	2	2	-	3	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	\checkmark	\checkmark		\checkmark
CO 2	\checkmark	\checkmark		\checkmark
CO 3	\checkmark	\checkmark	\checkmark	\checkmark
CO 4	\checkmark	\checkmark		\checkmark
CO 5		\checkmark	\checkmark	
CO 6			\checkmark	

Programme	B.A. Economics with Foreign Trade							
Course Title	INTERMEDIATE N	INTERMEDIATE MACROECONOMICS						
Type of Course	Major	Major						
Semester	IV	IV						
Academic Level	200 - 299	200 - 299						
Course Details	Credit	Lecture	Tutorial	Practical	Total			
		per week	per week	per week	Hours			
	4	4	-	-	60			
Pre-requisites	Basic Economics Co	ourse of 100 -	– 199 level					
Course	This course explores important concepts, basic theories and models and							
Summary	other fundamental n	nacro aspects	of economics	s.				

СО	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.	Ар	Р	Practical Assignment / Observation of Practical Skills			
CO3	Help the student 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	To make the students curious about the functioning of the economy and the power and breadth of economics	U	F	Writing assignments			
CO6	Demonstrate critical thinking and problem-solving skills by applying the acquired knowledge to address complex economic challenges in the contemporary world.	Ар	Р	Viva Voce			
# - Fa	 * - 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	
		Classical Macroeconomics	12		
	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,	2		
Ι	3	The Quantity Theory of Money: The Equation of Exchange, The Cambridge Approach to the Quantity Theory,	2	17	
	4	Theory, The Classical Aggregate Demand Curve, The Classical Theory of the Interest Rate,	3		
	5	Policy Implications of the Classical Equilibrium Model: Fiscal Policy, Monetary Policy	3		
	The Keynesian System				
	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	2		
II	8	Determining Equilibrium Income, Changes in Equilibrium Income	1	17	
	9	Fiscal Stabilization Policy	1		
	10	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		
	12	The Keynesian Theory of Money Demand, The Effects of an Increase in the Money Supply	2		
		The orthodox Keynesian school	12		
	13	The IS–LM model for a closed economy: Money Market Equilibrium: The LM Schedule, Product Market Equilibrium:	2		
	14	The IS Schedule, The IS and LM Schedules Combined, Underemployment equilibrium in the Keynesian model,	2		
	15	Factors That Affect Equilibrium Income and the Interest Rate:	1		
	16	Monetary Influences: Shifts in the LM Schedule, Real Influences: Shifts in the IS Schedule,	1	17	
III	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	17	
	18	The IS–LM model for an open economy,	2		
	19	The Phillips curve and orthodox Keynesian economics, The central propositions of orthodox Keynesian economics	2		

		Aggregate Supply and Demand	13	
	20	The Keynesian Aggregate Demand Schedule, The Keynesian Aggregate Demand Schedule Combined with the Classical Theory of Aggregate Supply,	3	
IV	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	19
	22	The Keynesian Aggregate Supply Schedule with a Variable Money Wage, Policy Effects in the Variable- Wage Keynesian Model,		
	23	The Effects of Shifts in the Aggregate Supply Schedule: Factors That Shift the Aggregate Supply Schedule	4	
		Open ended module	12	
v		Discussion based on different schools of thought		
		Practical Assignments		
		Seminar		

Note: The course is divided into five modules, with four modules together having total 22 fixed units and one open-ended module with a variable number of units. There are total 48 instructional hours for the fixed modules and 12 hours for the open-ended one. Internal assessments (30 marks) are split between the open-ended module (10 marks) and the fixed modules (20 marks). The final exam, however, covers only the 22 units from the fixed modules. The 70 marks shown in the last column, distributed over the first four modules, are only for the external examination.

REFERENCE:

- 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	PSO 7	PSO 8	PSO 9
CO 1	3	-	-	1	-	-	-	-	-
CO 2	1	1	1	1	-	-	2	1	-
CO 3	3	2	-	2	-	-	2	1	-
CO 4	3	2	-	2	-	-	3	2	-
CO 5	2	1	-	-	-	-	-	1	-
CO 6	1	-	2	1	3	-	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	\checkmark	\checkmark		\checkmark
CO 2	\checkmark		\checkmark	\checkmark
CO 3	\checkmark	\checkmark		\checkmark
CO 4	\checkmark	\checkmark		\checkmark
CO 5		\checkmark	\checkmark	
CO 6			\checkmark	

Programme	B.A. Economics with	B.A. Economics with Foreign Trade					
Course Title	ANALYTICAL TO	ANALYTICAL TOOLS FOR ECONOMICS II					
Type of Course	Major						
Semester	IV						
Academic	200-299	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	ourse of $0 - 9$	99 level				
Course	This course introduc	es students a	about statistic	cal methods for	or economic		
Summary	analysis. Students sh	all acquire i	n-depth knov	wledge in the	concepts of		
	probability, probabil	lity distributi	ons, theory	of estimation	, hypothesis		
	testing and their appl	lications in e	conomic ana	alysis.			

СО	CO Statement	Cognitive Level*	Knowledge Category#	Evaluation Tools used				
CO1	Basic understanding of computation of probability.	U	С	Instructor- created exams / Quiz				
CO2	Identify various probability distributions and its applications	Ap	Р	Practical Assignment / Observation of Practical Skills				
CO3	Understand estimation of mean, variance and population of parameters of sampling distributions	U	Р	Seminar Presentation / Group Discussion				
CO4	Understand and Apply hypothesis testing for economics theories	Ap	С	Instructor- created exams / Home Assignments				
CO5	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/Project				
# - Fa	 * - 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				
		Elementary Probability Theory	14					
	1	Concepts- Set theory- Permutations and Combinations, Definitions of Probability - classical, empirical and axiomatic approaches- Addition and multiplication laws						
Ŧ	2	Conditional probability- Bay's theorem						
Ι	3	Random variables- probability distribution- Mathematical expectation- moments	3	21				
	4	Two random variables: joint, Marginal and conditional probability functions	3					
	5	Computing expected values- Covariance and correlation coefficients	3					
	1	Probability Distributions	11					
	6	Discrete Probability Distributions, Binomial, Poisson, Uniform - simple applications	4					
II	7	Continuous probability distributions- Normal, Lognormal and Exponential Distributions (Derivations are not expected)	4	16				
	8	Concept of law of large numbers and Central limit theorem	1					
	9	Distribution function-Distribution function of one random variable	2					
		Theory of Estimation	12					
	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						
III	12	Small and large sample properties of Z, t, Chi Square and F	2	17				
111	13	Estimation of population parameters using method of OLS	1	17				
	14	Estimation of population parameters using method of maximum likelihood procedures	1					
	15	Point and interval estimation- Confidence intervals for population parameters						
	16	Properties of estimators	1					
		Testing of Hypothesis	11					
	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					
IV	19	Test procedure - Test of significance in respect of Mean, Proportion, Variance and Correlation coefficient and their differences	2	16				
	20	Chi Square test of goodness of fit, and test for independence of attributes	2					
	21	Non parametric tests - Sign test, Wilcoxon- Mann Whitney U Test, Signed rank test	3					
	22	Kruskal Wallis test, Wald-Wolfowitz test	2					
V	1	Open Ended Module Develop critical thinking and problem-solving skills by applying	12					
-	-	statistical methods in Economic theories						

2	Discussion based on statistical tools	
3	Practical Assignments	
4	Seminar	

Note: The course is divided into five modules, with four modules together having total 22 fixed units and one open-ended module with a variable number of units. There are total 48 instructional hours for the fixed modules and 12 hours for the open-ended one. Internal assessments (30 marks) are split between the open-ended module (10 marks) and the fixed modules (20 marks). The final exam, however, covers only the 22 units from the fixed modules. The 70 marks shown in the last column, distributed over the first four modules, are only for the external examination.

REFERENCE:

- 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 & amp; Row, Edition 3,1973
- 2. Hoel PG: Introduction to Mathematical Statistics, John Wiley & amp; 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	PSO7	PSO8	PSO9
CO 1	3	-	-	-	-	-	-	-	-
CO 2	-	-	-	1	-	-	3	1	
CO 3	1	-	-	1	-	-	-	-	3
CO 4	-	-	1	2	-	-	2	-	3
CO 5	-	-	-	-	-	-	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	\checkmark	\checkmark		\checkmark
CO 2	\checkmark		\checkmark	\checkmark
CO 3	\checkmark	\checkmark		\checkmark
CO 4	\checkmark	\checkmark		\checkmark
CO 5		\checkmark	\checkmark	

Programme	B.A. Economics	B.A. Economics with Foreign Trade						
Course Title	ADVANCED MI	ADVANCED MICROECONOMICS						
Type of Course	Major							
Semester	V							
Academic Level	300-399							
Course Details	Credit	Lecture	Tutorial	Practical	Total Hours			
		per week	per week	per week				
	4	4	-	-	60			
Pre-requisites	Basic Economics	Course of 0	– 99 level					
Course Summary	This course focu	ses on mark	et on factor	inputs, variou	is aspects of general			
	equilibrium and	equilibrium and economic efficiency, the behaviour of consumers under						
	uncertain conditi	ons and basi	c concepts o	f behavioural	economics.			

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CO	CO Statement	Cognitive Level*	Knowledge Category#	Evaluation 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	Р	Observation of Practical Skills / Home Assignments
CO5	To evaluate consumer behaviour under uncertain conditions	Е	Р	Group Discussion / Instructor- created exams

CO6	Develop microeconomic models to evaluate real-world microeconomic phenomena and issues.	С	М	Practical Assignment Viva Voce				
* - 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	
	Market for Factor Inputs		13		
	1	Competitive Factor Markets - Demand for a Factor input with a single variable input	3	<u>3</u> 18	
Ι	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		
	General Equilibrium and Economic Efficiency		15		
	6	Efficiency in Exchange - The Advantages of trade	2	20	
	7	Edgeworth Box Diagram - Efficient Allocations	2		
	8	Contract Curve - Economic Efficiency of Competitive Markets	2		
II	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		
	Uncertainty and Consumer Behaviour		10		
	14	Describing Risk- Probability- Expected Value – Variability -	1	1 2 2 2 3	
	15	Preferences towards Risk – Risk Averse- Risk Neutral – Risk Loving	2		
III	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		
	Behavioural Economics		10		
	19	Reference Points and Consumer's preferences	3	3 16	
IV	20	Endowment Effect – Loss Aversion – Framing- Fairness	3		
	21	Rules of Thumb and Biases in Decision making –	2		
	22	Anchoring – Rules of Thumb – Law of Small Numbers	2		

	Open Ended Module	12
N7	Discussion based on different market securities and its valuation.	
V	Practical Assignments about firms' decision making in calculating the worthiness of a capital investment.	

Note: The course is divided into five modules, with four modules together having total 22 fixed units and one open-ended module with a variable number of units. There are total 48 instructional hours for the fixed modules and 12 hours for the open-ended one. Internal assessments (30 marks) are split between the open-ended module (10 marks) and the fixed modules (20 marks). The final exam, however, covers only the 22 units from the fixed modules. The 70 marks shown in the last column, distributed over the first four modules, are only for the external examination.

REFERENCE:

- 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 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.

	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6	PSO7	PSO8	PSO9
CO 1	3	-	-	-	-	-	-	-	-
CO 2	3	1	-	1	-	-	1	1	-
CO 3	3	2	-	1	-	-	1	1	-
CO 4	-	3	2	1	1	-	1	2	2
CO 5	2	1	-	1	-	-	2	2	2
CO 6	-	2	2	2	2	-	3	2	2

MAPPING OF COS WITH PSOS:

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	\checkmark	\checkmark		\checkmark
CO 2	\checkmark	\checkmark		\checkmark
CO 3	\checkmark	\checkmark	\checkmark	\checkmark
CO 4	\checkmark	\checkmark		\checkmark
CO 5		\checkmark	\checkmark	
CO 6			\checkmark	

Programme	B.A. Economics with Foreign Trade						
Course Title	FOREIGN TRADE DOCUMENTATION AND LOGISTICS						
Type of Course	Major						
Semester	V						
Academic Level	300-399						
Course Details	Credit	Lecture per week	Tutorial per week	Practical per week	Total hours		
	4	4	-	-	60		
Pre-requisites	Economics	Course of 200 –	299 level				
Course Summary		This course covers the procedures, documents, intermediaries, trade terms and logistics in the context of exporting and importing of goods and services.					

CO	CO Statement	Cognitive Level*	Knowledge Category#	Evaluation Tools used			
CO1	Understand the different documents used in international trade	U	С	Instructor-created exams / Quiz			
CO2	Identify the rationale behind documentation	Ap	С	Practical Assignment / Observation of Practical Skills			
CO3	Analyse the procedures involved in exporting and importing	An	Р	Writing assignments			
CO4	Develop an idea about the concept of logistics and its various facets.	С	М	Instructor-created exams / Home Assignments			
CO5Analyse the procedures involved in excise and custom clearance of cargoAPSeminar Presentation / Group Discussion							
 * - Understand (U), Apply (Ap), Analyse (An), Create (C) # - Conceptual Knowledge (C) Procedural Knowledge (P) Metacognitive Knowledge (M) 							
		6		<i>U</i> ()			

Module	Unit	Content	Hrs	Marks
		Documentation in Foreign Trade	12	
	1	Foreign trade documentation -Meaning,	2	
	2	Need and importance of Foreign trade documentation	2	15
Ι	3	Types of documents as commercial and regulatory documents	2	
	4	Aligned Documentation System.	2	
	5	INCO TERMS	2	
	6	C &F Agents -export and import	2	
		Export Procedures	13	
	7	Export preliminaries-obtaining Reserve Bank Code Number,	2	
	/	registration with Export Promotion Councils -IEC number -RCMC	3	
п	8	Export licensing	2	20
II	9	Processing of an export order-Getting an export order-Pre shipment,		20
	9	Shipment, Post shipment	4	
	10	Customs clearance of export cargo	2	
	11	Excise clearance of export cargo	2	
		8		
	12 Import licensing		2	
III	13	Procedure for import in detail	3	20
	14	Customs clearance of import cargo	2	
	15	1		
		15		
	16	Logistics- definition, concept, types and importance	3]
	17	Overview of logistics in international trade	2	
IV	18	Logistics operations -transportation management	2	15
1 V	19	Logistics operations -Inventory management	2	- 13
	20	Logistics operations -Warehousing	2	
	21	Logistics operations -distribution	2	
	22	Reverse logistics, Make or buy decision in business	2	
		Open Ended Module		
	Inter	national trade and the role of export import management in global	12	
		business	12	
		DiscussionandSeminar on		
		- The role of export promotion organizations and bodies in the		
V		international trade of India		
•	1	- Current list of EPC's in India		
		- The influence of logistics and supply chain management in modem		
		world		
		- Usage of different documents in international trade		
	2	Practical applicationson		

- Hands on experience with documentation	
- Site visit to logistic companies	
- Visit to different government offices related to export and import	

Note: The course is divided into five modules, with four modules together having total 22 fixed units and one open-ended module with a variable number of units. There are total 48 instructional hours for the fixed modules and 12 hours for the open-ended one. Internal assessments (30 marks) are split between the open-ended module (10 marks) and the fixed modules (20 marks). The final exam, however, covers only the 22 units from the fixed modules. The 70 marks shown in the last column, distributed over the first four modules, are only for the external examination.

REFERENCE:

- 1. C. Rama Gopal –Export Import Procedure, Documentation and Logistics– New Age Publications
- 2. Usha Kiran Rai Export, Import and Logistics Management– PHI learning Pvt.Ltd.
- 3. M.I. Mahajan Foreign Trade Procedures and Documentation Snow White Publishers.

ADDITIONAL READINGS

- 1. P.K.Khurana Export Management PHI learning Pvt. Ltd.
- 2. Khurana P K, Export Management, Galgotia Publications.
- 3. Justin Paul & Rajiv Aserkar, Export Import management, Oxford Publication
- 4. Rakesh Mohan Joshi, International Business, Oxford Publication.
- 5. E. Johnson, Export/Import Procedures And Documentation (Export/Import Procedures & Documentation)

NIRYATBANDHUSCHEME (2023-24)

https://www.dgft.gov.in/CP/

https://commerce.gov.in/

https://www.cbic.gov.in/

MAPPING OF COS WITH PSOS:

	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6	PSO7	PSO8	PSO9
CO 1	-	-	2	-	-	-	-	-	-
CO 2	-	-	3	-	-	2	-	-	-
CO 3	-	-	3	-	-	3	-	-	-
CO 4	-	-	1	-	-	2	2	3	-
CO 5	-	-	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%)
- Final Exam (70%)

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

Programme	B.A. Ecor	B.A. Economics with Foreign Trade						
Course Title	EXPORT	EXPORT MARKETING						
Type of Course	Major							
Semester	V							
Academic Level	300-399							
Course Details	Credit	Lecture per week	Tutorial per week	Practical per week	Total hours			
	4	4	-	-	60			
Pre-requisites	Economic	es Course of 200	– 299 level					
Course Summary	foreign m	The course covers international market dynamics, strategies for entering foreign markets and other crucial marketing aspects for successful business expansion.						

CO	CO Statement	Cognitive Level*	Knowledge Category#	Evaluation Tools used
CO1	Examine the concept, factors influencing, importance, risk involved in export marketing,	U	С	Instructor-created exams / Quiz
CO2	Understand how to manage export marketing activities in international market.	U	С	Practical Assignment / Observation of Practical Skills
CO3	Explain the new product development and pricing in global market.	R	F	Seminar Presentation / Group Discussion
CO4	Recognize the promotional strategies and channels of distribution in international market.	R	F	Instructor-created exams / Home Assignments
CO5	Evaluate different modes of entry into foreign market	Е	М	Writing assignments
CO6	Apply the market entry and export marketing strategy in international market.	Ар	Р	Viva Voce

* - Remember (R), Understand (U), Apply (Ap), , Evaluate (E),

- Factual Knowledge(F) Conceptual Knowledge(C) Procedural Knowledge(P) Metacognitive Knowledge (M)

Module	Unit	Content	Hrs	Marks	
		10			
	1	Concept and features of Export Marketing	2		
Ι	2	Domestic Marketing Vs Export Marketing,		15	
	3	Factors influencing Export Marketing;			
	4 Risks involved in Export Marketing		2		
	5	Export Marketing Development through Internet	2		
		Export marketing Mix	8		
II	5	Export marketing Mix - 4Ps	3	15	
11	6	4Cs of export marketing mix	1	15	
	7	International Market entry strategies	4		
		Product and pricing for export marketing	18		
	8	Product: Meaning- product planning - product design strategy- Product Life Cycle - product mix- product line.	3		
	9	Packaging– Functions and Types	2	20	
	10	Branding- objectives, brand types and brand piracy,	2		
III	11	Labeling and marking in exports.	2		
	12	Meaning of Price	1		
	13	Factors determining Export Price	2		
	14	Objectives of Export Pricing	2		
	15	Export Pricing methods	2		
	16	Export Pricing Strategies	2		
		Place and Promotion in export marketing	12		
	17	Place- meaning and importance	2		
	18	Channels of distribution in export markets	2		
IV	19	Need and importance of warehousing	2	20	
	20	Promotion: Meaning and Importance	2		
	21	21 Promotional mix and strategies			
	22	Promotional strategies	2		
		Case studies and practical applications	12		
V		Analyzing successful and unsuccessful export marketing campaigns			
v		Developing an export marketing plan			
		Analyzing the market entry strategies of global companies			

Note: The course is divided into five modules, with four modules together having total 22 fixed units and one open-ended module with a variable number of units. There are total 48 instructional hours for the fixed modules and 12 hours for the open-ended one. Internal assessments (30 marks) are split between the open-ended module (10 marks) and the fixed modules (20 marks). The final exam, however, covers only the 22 units from the fixed modules. The 70 marks shown in the last column, distributed over the first four modules, are only for the external examination.

REFERENCE:

- 1. Export Marketing, Dr.Neelam Arora
- 2. Export management, DC Kapoor, Vikas Publishing
- 3. Kumar Aseem, Export and Import Management, , Excel Books, New Delhi
- 4. B. S. Rathor Export Marketing Himalaya Publishing House

ADDITIONAL READINGS

- 1. International Business, P. Subha Rao, 2023
- 2. Export Import and logistics Management, Usha Kiran Rai
- 3. International Business Oded Shankar & YadongLuo John Wiley & sons Inc Noida
- 4. International Marketing Michael R Czinkota and iikkaRonkainen South Western Cengag Learning India Pvt Ltd – NewDelhi
- 5. International Business Cherunilan, F, Prentice Hall Of India, NewDelhi
- 6. International Marketing Cateora PR, and Graham, J.L , Tata MC Grow Hill NewDelhi
- 7. Onkvist, S.and J.J. Shaw, International Marketing; Analysis and Strategy, Prentice Hall, New Delhi
- 8. https://www.dgft.gov.in/CP/

	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6	PSO7	PSO8	PSO9
CO 1	-	-	3		-	-	-	-	
CO 2	-	2	3	-	-	-		-	-
CO 3	-	-	3		-	-	-	-	-
CO 4	-	3	3	-	-	-	-	-	-
CO 5	-	-	3	-	-	-	2	-	-
CO 6	-	-	3	-	-	-	3	1	-

MAPPING OF COS WITH PSOS:

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	 ✓ 		1	 ✓
CO 3	 ✓ 	\checkmark		 ✓
CO 4	 ✓ 	\checkmark		 ✓
CO 5	 ✓ 	\checkmark	1	
CO 6			1	

Programme	B.A. Ec	B.A. Economics with Foreign Trade							
Course Title	ECONC	ECONOMICS OF SHIPPING AND INSURANCE PRACTICES							
Type of Course	Major	Major							
Semester	VI								
Academic Level	300-399								
Course Details	Credit	Lecture per week	Tutorial per week	Practical per week	Total hours				
	4	4	-	-	60				
Pre-requisites	Econom	ics Course of 200	– 299 level						
Course Summary	This course includes prospects and implications of Indian and world shipping, marine insurance, container shipping, credit insurance knowledge and the role of ECGC in smoothing international trade.								

CO	CO Statement	Cognitive Level*	Knowledge Category#	Evaluation Tools used
C01	Understand about Practices and processes involved in shipping	U	С	Instructor-created exams / Quiz
CO2	Understand the latest trends, developments and problems of Indian shipping	U	С	Seminar Presentation / Group Discussion.
CO3	Analyse information about various insurance policies related to shipping and its claim procedure	An	Р	Seminar Presentation / Group Discussion.
CO4	Understanding of the role of ECGC in facilitating and promoting international trade	U	С	Instructor-created exams / Quiz
CO5	Evaluate different types of risks in international trade	Е	М	Writing assignments/ group discussion

* Understand (U), Analyse (An), Evaluate (E)

- Factual Knowledge(F) Conceptual Knowledge (C) Procedural Knowledge (P) Metacognitive Knowledge (M)

Module	Unit	Content	Hrs	Marks	
		Introduction to Shipping Economics	12		
	1	Nature of export cargo	2		
	2	Mode of transportation -Types	2		
Ι	3	Mode of transportation: Merits and Demerits	2	15	
	4	Types of ships and market structure in shipping-Liner, Tramp ,Chartering and Conference shipping	4		
	5	Emerging issues in shipping economics	2		
		World and Indian Shipping	11		
	6	Overview of maritime industry-Historical development and evolution in the world	2		
	7	Shipping and international trade-Key players ,Importance,	1		
II	8	Major commodities trading in international shipping	2	15	
	9	Indian shipping-Importance, Problems and Challenges and opportunities.	3		
	10	Indian ports and shipping infrastructure-Major ports in India and their significance2			
	11	Shipping Corporation of India	1		
		Containerization	11		
	12	Containerisation-Historical context, Types, Importance, Merits and Demerits	4		
TTT	13	Multimodal transport document and Dry Port	2	20	
III	14	Procedure for export import through ICD and CFS	2	20	
	15	Procedure for excise and customs clearance in respect of containerisation	2		
	16	16 CONCOR			
		Marine Insurance and ECGC	14		
	17	Marine insurance -Definition, Scope,	2		
	18	Marine insurance: Parties, and Principles	2		
IV	19	Types of marine insurance policies and claim procedure-hull and machinery insurance, cargo 2 insurance, freight insurance		20	
	20	Underwriting and risk management-Risk factors in marine insurance, Underwriting process	n 2		
	21	Different types of risk in international trade	1		
	22	ECGC-objectives, functions and policies in detail	5		

	Practical applications and case studies	12	
	Discussion/ Seminar/ assignment on		
	-Current trends and future developments in Indian shipping		
	- Environmental sustainability in shipping		
	-Role of containers in E -commerce logistics		
	Practical applications and case studies		
	-Case studies on technology adoption in shipping industry		
V	Case studies on different port projects		
	Case studies about environmental regulations in Indian shipping		
	Case study on successful containerised trade routes		
	Case studies on eco friendly initiatives in containisation		
	Case study sound legal challenges in marine insurance		
	Case studies on trade finance arrangements with ECGC involvement		
	Case study on successful credit risk management by exporters through ECGC		

Note: The course is divided into five modules, with four modules together having total 22 fixed units and one open-ended module with a variable number of units. There are total 48 instructional hours for the fixed modules and 12 hours for the open-ended one. Internal assessments (30 marks) are split between the open-ended module (10 marks) and the fixed modules (20 marks). The final exam, however, covers only the 22 units from the fixed modules. The 70 marks shown in the last column, distributed over the first four modules, are only for the external examination.

REFERENCE:

1.C. Rama Gopal –Export Import Procedure, Documentation and Logistics– New Age Publications

2.International Logistics - Pierre David -Bizatantra - New Delhi

ADDITIONAL READINGS:

- 1. International trade and Export Management Francis cherunilam
- 2. Logistics Management Vinod U. Sople Pearson Education New Delhi.
- 3. Logistics Management Raj Ismail Excel Books New Delhi.
- 4. Foreign Trade Policy Business Date info Publishing Company New Delhi
- 5. Export Management S. R Ullal
- 6. Export Management TAS Balagopal
- 7. Alan E.Branch. 2008, Elements of Shipping. Chapman and Hall, Fairplay Publications, U.K.
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- 11. https://www.imo.org/en/
- 12. https://www.dgshipping.gov.in/
- 13. https://www.shipindia.com/
- 14. https://shipmin.gov.in/
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MAPPING OF COS WITH PSOS:

	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6	PSO7	PSO8	PSO9
CO 1	3	-	2	-	2	-	1	2	-
CO 2	-	-	3		-	3	2	2	-
CO 3	-	-	2	-	-	-	2	3	-
CO 4	3	-	3	-	-	2	2	3	-
CO 5	3	-	2	-	-	3	3	3	-
CO 6	-	-	3	-	-	-	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	1	✓ ✓	1	\checkmark
CO 2	1	✓ ✓	✓	\checkmark
CO 3	1	✓		✓
CO 4	1	✓	1	✓
CO 5	1	✓		
CO 6	1	✓	~	

Programme	B.A. Economics with Foreign Trade							
Course Title	FOREIGN TRADE	FOREIGN TRADE FINANCING AND PROCEDURE						
Type of Course	Major	Major						
Semester	VI							
Academic	300 - 399							
Level								
Course Details	Credit	Lecture	Tutorial	Practical	Total			
		per week	per week	per week	Hours			
	4	3	-	2	75			
Pre-requisites	Economics Course o	f 200 – 299	level					
Course	The paper aims to equip with the updated information on various methods							
Summary	and procedures of Foreign trade financing.							
		2	e					

со	CO Statement	Cognitiv e Level*	Knowledg e Category#	Evaluation Tools used			
CO1	Understand about various sources of foreign trade finance.	U	С	Instructor-created exams / Quiz			
CO2	Understand various institutions involved in export finance.	U	С	Practical Assignment / Observation of Practical Skills			
CO3	Explain the various methods of payment involved in export finance.	А	Р	Seminar Presentation / Group Discussion			
CO4	Understand about various methods and procedures of pre shipment and post shipment finance.	U	С	Instructor-created exams / Home Assignments			
CO5	Describe the various incentives and assistance offered by Indian government to Indian Exporters.	R	F	Writing assignments			
CO6	Apply the knowledge of trade finance solutions and mitigating risks involved with foreign trade.	Ap	С	Viva Voce			
	 * - Remember (R), Understand (U), Apply (Ap), # - Factual Knowledge(F) Conceptual Knowledge (C) Procedural Knowledge (P) 						

Module	Unit	Content	Hrs	Marks			
		Introduction to Foreign Trade Financing	10				
	1						
I	2	Need for foreign trade finance	2	15			
	3	Financing of imports in India	2	15			
	4	Financing of exports in India	2				
	5	Foreign exchange regulations- FEMA	2				
		Export Financing	9				
п	6	Role of RBI, commercial banks, Export Credit Guarantee Corporation, Export Import Bank and other institutional arrangement in providing export finance and promoting India's exports.	4	15			
11	7	Terms of payment in foreign trade finance	2	15			
	8	Methods of payment- Payment in advance, open account, documentary bills- Document against payment and Document against payment, documentary credit under letter of credit.	3				
		Pre Shipment and Post Shipment Finance	11				
	9	Pre-shipment: Meaning	1				
	10	Post-shipment Finance: Meaning	1				
III	11	Need for pre shipment finance	1	20			
	12	Need for post shipment finance	1	20			
	13	Pre shipment finance: Methods and procedures	2				
	14	Post shipment finance: Methods and procedures	2				
	15	Export Finance in Foreign Currency.	3				
		Export Assistance and Incentives	15				
	16	Major current Export Incentives extended to Exporters by the Indian Government – Duty Drawback, EPCG Scheme, MDA, MAI, GST Refund etc. for Exporters.	3				
	17	Deemed Exports benefits	2				
IV	18	Institutional Assistance to Indian Exporters	2	20			
	19	Federation of Indian Export Organisations (FIEO)	2				
	20	Export Promotion Councils (EPCs) & Commodity Boards (CBs),	2				
	21	Indian Institute of Foreign Trade(IIFT)	2				
	22	Director General of Foreign Trade.	2				
		Case studies and practical applications	30				
\mathbf{V}		Analyzing the problems of Indian exporters in availing foreign trade finance					
		Assignments related specific aspect of foreign trade finance					
		Analysing digitalization in foreign trade finance.					

Note: The syllabus has five modules. There should be total 22 units in the first four modules together, composed of the theory topics. The number of units in the last module can vary. There are 45 instructional hours for the first four modules and 30 hrs for the final one. Module V is designed to equip students with practical skills. The 20 marks for the evaluation of practical will be based on Module V. Internal assessments (30 marks) are split between the practical module (20 marks) and the first four modules (10 marks). The end-semester examination for the theory part will be based on the 22 units in the first four modules. The 70 marks shown in the last column, distributed over the first four modules, are only for the external examination.

REFERENCE:

- 1. Export Marketing, Dr.Neelam Arora
- 2. Export management, DC Kapoor, Vikas Publishing
- 3. Export Import and logistics Management, Usha Kiran Rai
- 5. B. S. Rathor Export Marketing Himalaya Publishing House

ADDITIONAL READINGS

- 1. Elements of International Economics Giancarlo Springar International Finance gasdolfo Springer
- 2. International Economies, Mundell, R.A Macmillan, New York
- 3. International Business Environment Francis Cherunilam Himalaya Publishing House
- 6. International Economic Problems Leonark Gomes Macmillan, London
- 7. Kumar Aseem, Export and Import Management, New Delhi, Excel Books, 2007.
- 8. https://www.dgft.gov.in/CP/

	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6	PSO7	PSO8	PSO9
CO 1	2	-	-	-	-	-	-		
CO 2	2	-	-	-	-	-	-	1	
CO 3	-	-	3	-	-	-	-	2	
CO 4	-	1	-	-	-	-	-	3	
CO 5	-	2	-	-	-	-	-	2	
CO 6	-	-	-	-	-	-	3	3	

MAPPING OF COS WITH PSOS:

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	1	✓		1
CO 2	1	1		1
CO 3	1	1		1
CO 4	1	✓		✓
CO 5	1	1		
CO 6			1	

Programme	B.A. Economics v	B.A. Economics with Foreign Trade						
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 Mac	Intermediate Macroeconomics course of 200 – 299 level						
Course Summary	This course explo	This course explores important concepts, theories, models and other						
	fundamental mac	ro aspects of	economics.					

СО	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	Help the student master the macroeconomic aspects essential for understanding the economic climate, specific economic issues, and policy alternatives.	AN	Р	Seminar Presentation / Group Discussion			
CO4	Apply the macroeconomic perspectives and reason accurately and objectively about economic matters.	EV	С	Instructor- created exams / Home Assignments			
CO5	To make the students curious about the functioning of the economy and the power and breadth of economics	С	F	Writing assignments			
CO6	Demonstrate critical thinking and problem-solving skills by applying the acquired knowledge to address complex economic challenges in the contemporary world.	Ар	Р	Viva Voce			
 * - 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			
		The Orthodox Monetarist School	11				
	1	The quantity theory of money approach,	2				
I	2	2 The expectations-augmented Phillips curve analysis,					
1	3	3	16				
	4	The orthodox monetarist school and stabilization policy	3				
	Т	he New Classical School and the Real Business Cycle School	12				
	5	The structure of new classical models,	1				
	6	Equilibrium business cycle theory,	2				
п	7	The policy implications of the new classical approach,	3	18			
	8	The real business cycle school: Real business cycle theory, The structure of a real business cycle model,	3	10			
	9	A real business cycle aggregate demand and supply model,	2				
	10	The policy implications of real business cycle theory	1				
		The New Keynesian School	10				
	11	The fall and rise of Keynesian economics, New Keynesian economics,	3				
ш	12	Core propositions and features of new Keynesian economics, Nominal rigidities,	2	15			
	13	Dornbusch's overshooting model,	2				
	14	Real rigidities,	1				
	15	New Keynesian business cycle theory, Policy implications	2				
		The New Political Macroeconomics	15				
	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				
IV	19	The Nordhaus opportunistic model, The Hibbs partisan model,	2	21			
	20	The decline and renaissance of opportunistic and partisan models, Rational political business cycles,	2				
	21	Rational partisan theory Opportunistic and partisan behaviour a					
	22	Politics, time inconsistency, credibility and reputation, Policy implications of politico-economic models	3				
		Open Ended Module	12				
	1	Consumer theories after Keynes					
V	2	Investment Theories					
	3	Theories of demand for money and supply of money					
	5						

Note: The course is divided into five modules, with four modules together having total 22 fixed units and one open-ended module with a variable number of units. There are total 48 instructional hours for the fixed modules and 12 hours for the open-ended one. Internal assessments (30 marks) are split between the open-ended module (10 marks) and the fixed modules (20 marks). The final exam,

however, covers only the 22 units from the fixed modules. The 70 marks shown in the last column, distributed over the first four modules, are only for the external examination.

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	PSO7	PSO 8	PSO 9
CO 1	3	1	-	-	-	-	-	-	-
CO 2	1	2	-	1	-	-	2	2	-
CO 3	3	-	-	1	-	-	-	2	-
CO 4	-	3	1	2	-	-	3	1	-
CO 5	3	-	-	-	-	-	2	1	-
CO 6	-	2	2	3	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
- Practical Assignments (20%)
- Final Exam (70%)

	Internal Exam	Quiz / Assignment/ Viva Voce/ Discussion / Seminar	Practical Assignment	End Semester Examination
CO 1	\checkmark	\checkmark		\checkmark
CO 2	\checkmark		\checkmark	\checkmark
CO 3	\checkmark	\checkmark		\checkmark
CO 4	\checkmark	\checkmark		\checkmark
CO 5		\checkmark	\checkmark	
CO 6			\checkmark	

Programme	B.A. Economics with	n Foreign Tra	ade			
Course Title	TIME SERIES ECO	DNOMETR	ICS			
Type of Course	Major					
Semester	VII					
Academic	400-499					
Level						
Course Details	Credit	Lecture	Tutorial	Practical	Total	
		per week	per week	per week	Hours	
	4	3	-	2	75	
Pre-requisites	Econometrics course	e of 300-399	level			
Course	This course introduc	es students to	o the econom	netric method	s using time	
Summary	series data to condu	series data to conduct empirical analysis in Economics. The course is				
	designed to provide the students with the basic econometric techniques					
	needed to undertake	applied resea	rch projects ı	using macroed	conomic time	
	series data.					

CO	CO Statement	Cognitive Level*	Knowledge Category#	Evaluation Tools used			
CO1	To Understand the basic concepts of Time series Econometrics	R,U	С	Instructor-created exams / Quiz			
CO2	To analyse dynamic econometric models	An	Р	Instructor-created exams- Practical Assignment			
CO3	To understand and evaluate the stochastic processes	Ε	Р	Seminar Presentation / Quiz /Practical sessions			
CO4	To analyse the models of stochastic processes	E	Р	Instructor-created exams / Home Assignments			
CO5	To understand the nature of financial time series and apply the models to measure volatility	Ap	F	Writing assignments			
the models to measure volatility P CO6 Forecasting using estimated C P Practical models - Demonstrate sessions/Viva Voce sessions/Viva Voce econometric models and analysing skills by applying the sessions/Viva Voce acquired knowledge to address economic phenomena in the sessions/Viva Voce							
# - Fa	emember (R), Understand (U), Ap actual Knowledge(F) Conceptual cognitive Knowledge (M)						

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

Note: The syllabus has five modules. There are 22 units in the first four modules composed of the theory topics. There are 45 instructional hours for the first four modules and 30 hrs for the final one. Module V is an open module designed to equip students to analyse simultaneous equations in macroeconomic models. The 10 marks for the evaluation will be based on Module V. The end-semester examination will be based on the 22 units in the first four modules.

REFERENCE:

- 1. Damodar N Gujarati, Dawn C Porter, Sangeetha Gunasekar (2012): Basic Econometrics (fifth edition) McGrawHill (Module I,II,III,IV,V)
- Damodar N Gujarati and Dawn C Porter (2009): Basic Econometrics Fifth Edition, McGraw Hill International Edition (Module I,II,III)
- Gujarati, D. (2014). Econometrics by example, 2nd ed. Palgrave Macmillan. (Module II,III,IV)
- A Koutsoyiannis (1977): Theory of Econometrics- An introductory exposition of Econometric Methods, 2nd Edition, Palgrave
- Jack Johnston, John Dinardo, Econometric Methods, McGraw Hill International Edition (Modules I, III,IV)

ADDITIONAL READINGS

- 1. Dougherty, C. (2011). Introduction to econometrics, 4th ed. Oxford University Press.
- 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.
- Wooldridge, J. (2014). Introduction to econometrics: A modern approach, 5th ed. Cengage Learning.
- Lawrence R Klein (1975), A Text Book of Econometrics, Fourth Edition, Prentice Hall, Inc,Englewood cliffs, NJ, USA
- James H Stock and Mark W Watson (2008): Introduction to Econometrics- Pearson, Addison Wesley.
- 8. Christopher Dougherty (2007): Introduction to Econometrics, Third Edition, Oxford University Press.
- 9. 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	PSO6	PSO7	PSO8	PSO9
CO 1	3	-	-	-	-	-	-	-	-
CO 2	-	2	-	3	-	-	2		
CO 3	-	-	-	-	-	-	2	2	3
CO 4	-	-	-	-	-	-	2	2	3
CO 5	-	-	-	2	-	-	3	3	3
CO 6	_	_	-	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 (20%)
- Final Exam (70%)

	Internal Exam	Quiz / Assignment/ Viva Voce/ Discussion / Seminar	Practical Assignment	End Semester Examination
CO 1	\checkmark	\checkmark		\checkmark
CO 2	\checkmark	\checkmark	\checkmark	\checkmark
CO 3	\checkmark	\checkmark	\checkmark	\checkmark
CO 4	\checkmark	\checkmark		\checkmark
CO 5	\checkmark	\checkmark		\checkmark
CO 6	\checkmark	/	\checkmark	

Programme	B.A. Economics with Foreign Trade						
Course Title	GAME THEORY A	GAME THEORY AND ECONOMIC BEHAVIOUR					
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	Advanced Microecon	nomics cour	se of 300 – 2	399 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	С	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	Ар	Р	Viva
# - Fa	emember (R), Understand (U), Apply (A ctual Knowledge(F) Conceptual Knowledge (M)			

Module	Unit	Content	Hrs	Marks
		Introduction to Game Theory	5	
	1	What is game theory?	1	
Ι	2	History of game theory	1	8
	3	Theory of rational choice	2	
	4	Interacting decision makers	1	
		Strategic Games and Nash Equilibrium	14	
	5	Strategic games: examples	3	
II	6	Nash equilibrium: concept and examples	2	22
	7	Best response functions	2	
	8	Dominated Actions	2	

	9	Symmetric games and symmetric equilibria	2	
	10	Illustrations of Nash equilibrium-Cournot and		
	10	Bertrand's model of duopoly market	3	
		Mixed Strategy Equilibrium	15	
	11	Introduction	2	
	11		$\frac{2}{2}$	
		Strategic games with randomisation	$\frac{2}{2}$	
	13	Mixed strategy Nash equilibrium: concept and	Z	
III	1.4	examples		23
	14	Dominated Actions	2	
	15	Pure equilibria when randomization is allowed Equilibrium in a single population	3	
	16	2		
	17	Formation of Players' beliefs	2	
		Extensive Games with perfect information	11	
	18	Introduction to extensive games	2	
	19	Strategies and outcomes	2	
IV	20	Nash equilibrium- Subgame perfect Nash equilibrium	2	17
	21	Backward induction	2	
	22 Illustrations of Extensive Games and Nash Equilibrium-Stackelberg model of duopoly markets		3	
		Open Ended Module	30	
	1	Seminar on other examples like ; Bach or		
• • •	1	Stravinsky, Matching Pennies the Stag Hunt etc		
V	Discussion on the importance of game theory in			
	2	modern economy		
	3	Exercises- saddle point		

Note: The syllabus has five modules. There should be total 22 units in the first four modules together, composed of the theory topics. The number of units in the last module can vary. There are 45 instructional hours for the first four modules and 30 hrs for the final one. Module V is designed to equip students with practical skills. The 20 marks for the evaluation of practical will be based on Module V. Internal assessments (30 marks) are split between the practical module (20 marks) and the first four modules (10 marks). The end-semester examination for the theory part will be based on the 22 units in the first four modules. The 70 marks shown in the last column, distributed over the first four modules, are only for the external examination.

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 Perspectives* 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	PSO7	PSO8	PSO9
CO 1	3	2	-	-	1	-	-	-	-
CO 2	-	-	2	3	-	-	-	-	-
CO 3	-	-	2	1	2	-	-	-	-
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 /Survey
- Internal Exam
- Practical Assignments
- Final Exam (70%)

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

Programme	B.A. Economics with	B.A. Economics with Foreign Trade					
Course Title	DEVELOPMENT	DEVELOPMENT THEORIES AND MODELS					
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	Microeconomics and Macroeconomics course of 200 – 299 level						
Course Summary	To understand the theoretical aspects of development and the factors						
	influencing it.		-	_			

СО	CO Statement	Cognitive Level*	Knowledge Category#	Evaluation Tools used			
CO1	Understand the process of economic development	U	С	Instructor-created exams / Quiz			
CO2	Analyze the theoretical aspects of development	An	Р	Practical Assignment			
CO3	Evaluate various development theories	Ар	F	Seminar Presentation			
CO4	Apply the theoretical knowledge into understanding the development process	Ap	С	Instructor-created exams / Home Assignments			
CO5	Create complete understanding of the development process	U	F	Viva			
* - Re	* - Remember (R), Understand (U), Apply (Ap), Analyse (An), Evaluate (E), Create (C)						
# - Fa	# - Factual Knowledge(F) Conceptual Knowledge (C) Procedural Knowledge (P)						
Meta	cognitive Knowledge (M)						

Module	Unit	Content	Hrs	Marks
		The Concept of Economic Development	10	
	1	Development and underdevelopment	1	
	2	Development gap	1	
	3	Measurement of poverty	2	
Ι	4	Views of Amartya Sen	2	15
	5	Capability approach	1	
	6	Development and institutions	2	
	7	Human capital with reference to gender gap in development	1	
		process	1	
		Theories of Development	16	
	8	Rostow's stages of growth	2	
II	9	Kaldor's six characteristics of growth	2	26
	10	Structural change model – Prebish-Singer model, Lewis	4	20
	11	Dependency theories – Emmanuel dualism	3	
	12	False Paradigm	1	

	13	Dualism-financial, technical and social Jorgenson's theory of dual economy	2	
	14	Jorgenson's theory of dual economy	2	
		Contemporary Development Theories	10	
	15	Big push theory	2	
III	16	Underdevelopment as coordination failure	1	15
	17	Multiple equilibria	3	15
	18	O ring theory	1	
	19	Leibenstein's Theory of Critical Minimum Efforts	3	
		Regional Development Models	9	
IV	20	Growth Pole theory – Francois Perroux	3	14
1 V	21	Gunnar Myrdal- Theory of cumulative causation	3	14
	22	Friedman- Core Periphery theory	3	
		Open Ended Module	30	
		Discussion Developing experience of third world economies		
		Practical Assignments Study about the relevance of theories		
V		in explaining the development experience of third world		
		countries		
		Seminar present the student's understanding of development		
		indicators using a particular economy's experience.		

Note: The syllabus has five modules. There should be total 22 units in the first four modules together, composed of the theory topics. The number of units in the last module can vary. There are 45 instructional hours for the first four modules and 30 hrs for the final one. Module V is designed to equip students with practical skills. The 20 marks for the evaluation of practical will be based on Module V. Internal assessments (30 marks) are split between the practical module (20 marks) and the first four modules (10 marks). The end-semester examination for the theory part will be based on the 22 units in the first four modules. The 70 marks shown in the last column, distributed over the first four modules, are only for the external examination.

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	PSO7	PSO8	PSO9
CO 1	3	-	-	-	-	-	-		2
CO 2	-	-	-	1	-	-	-	3	-
CO 3	-	-	-	3		-	-	3	-
CO 4	-	3	1	2	-	-	3	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	\checkmark	\checkmark		\checkmark
CO 2	\checkmark		\checkmark	\checkmark
CO 3	\checkmark	\checkmark		\checkmark
CO 4	\checkmark	\checkmark		\checkmark
CO 5	\checkmark	\checkmark	\checkmark	\checkmark

Programme	B.A. Economics w	B.A. Economics with Foreign Trade					
Course Title	BALANCE OF PA	BALANCE OF PAYMENTS AND EXCHANGE MARKET					
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	Microeconomics as	nd Macroeco	onomics cou	rse of $200 - 2$	299 level		
Course Summary	This course explores the important principles and theories of balance of payment, foreign exchange transactions and working of current International Monetary system. It also explores the foreign exchange management in Indian 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	Ар	F	Seminar Presentation / Group Discussion		
CO4	Apply the theoretical knowledge to current international Monetary system	Ар	С	Instructor-created exams / Home Assignments		
CO5	Create complete understanding of the BoP and forex Management in India.	U	F	Viva		
# - Fact	 * - 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
		Balance of Payment and Balance of Trade	10	
	1	Balance of trade & Balance of Payment: Accounts in BOP	2	
I	2	Equilibrium and Disequilibrium is BoP and Measures to correct BoP	3	15
	3	Marshall Lerner Condition, J curve effect and Absorption approach	3	
	4	Foreign Trade Multiplier	2	
		Foreign Exchange Rate	11	
	5	Evolution and Functions of foreign exchange market	2	
п	6	Theories of Exchange Rate Determination-Mint Parity, Purchasing Power Parity and Balance of Payment theory	2	17
	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	
	Ар	proaches to Balance of Payment and Exchange Rate	15	
	10	Monetary Approach to Balance of Payment	2	
	11	Portfolio Balance Approach	2	24
III	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	
	Ba	alance 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	
IV	20	Currency Convertibility	1	14
	21	Exchange control Measures in India	2	
	22	Foreign Exchange Management in India- Fiscal, monetary and trade policy.	2	
		Open Ended Module	30	
		Discussion - International Monetary System –Present and Future		
v		 Practical Assignments 1) Study about the recent trends of 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.		

Note: The syllabus has five modules. There should be total 22 units in the first four modules together, composed of the theory topics. The number of units in the last module can vary. There are 45 instructional hours for the first four modules and 30 hrs for the final one. Module V is designed to equip students with practical skills. The 20 marks for the evaluation of practical will be based on Module V. Internal assessments (30 marks) are split between the practical module (20 marks) and the first four modules (10 marks). The end-semester examination for the theory part will be based on the 22 units in the first four modules. The 70 marks shown in the last column, distributed over the first four modules, are only for the external examination.

REFERENCE:

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

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.

	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6	PSO7	PSO8	PSO9
CO 1	3	-	-	-	-	-	-	-	-
CO 2	-	3	-	2	2	-	2	3	3
CO 3			-	2	-		-		2
CO 4	-		1	2	3		3	3	2
CO 5	3	-	-	-	3		2	-	2

MAPPING OF COS WITH PSOS:

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	\checkmark	\checkmark		\checkmark
CO 2	\checkmark	\checkmark	\checkmark	\checkmark
CO 3	\checkmark	\checkmark	\checkmark	\checkmark
CO 4	\checkmark	\checkmark	\checkmark	\checkmark
CO 5	\checkmark	\checkmark	\checkmark	

Programme	B.A. Economics with	h Foreign Tra	ade					
Course Title	DEVELOPMENT I	DEVELOPMENT ISSUES IN KERALA						
Type of Course	Major							
Semester	VII							
Academic Level	400 - 499							
Course Details	Credit	Lecture per week	Tutorial per week	Practical per week	Total Hours			
	4	3	-	2	75			
Pre-requisites	Economics course of	of 200 – 299	level					
Course Summary	The course covers developmental experiences of Kerala, Demography, Human Development and Social Inclusion, Population and Human Development, Development Issues, state finance and planning. It also covers assignment on identification of data base on Kerala Economy and discussion regarding the Economic Review and the State Budgets and Prepare reports based on discussions.							

СО	CO Statement	Cognitive Level*	Knowledge Category#	Evaluation Tools used			
CO1	To understand the developmental experiences of Kerala Economy.	U	F	Instructor-created exams / Discussions/ Quiz			
CO2	To examine the population changes, Human Development and Inclusive growth in Kerala	Е	F	Instructor-created exams/ Discussions/Quiz			
CO3	To understand and examine the major development issues of Kerala.	Е	Р	Instructor-created exams/ Seminar Presentation / Discussion/Quiz			
CO4	To evaluate state finances and planning in Kerala and enable them to be a part of policy implementation.	Е	Р	Instructor-created exams / Group Discussion/ Assignments/ Quiz			
CO5	To understand data base on Kerala Economy, conduct a discussion and prepare reports	U	F	Group Discussion/ Viva Voce			
# - Fact	 * - 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
		Development Experiences of Kerala	10	
	1	Economic Growth in Kerala	2	
_	2	Structural Transformation in Kerala		1 2
I	3	Kerala		15
	4 Kerala Model of Development		2	
	5	Rebuild Kerala Initiative		
	De	emography, Human Development and Social Inclusion	14	
	6	Changing Demographic Profile in Kerala	2	
	7	Labour, Employment and Skill Development	2	
II	8	Migration: Types, Causes, Trends and Impacts	2	22
	9	Urbanization: Causes, Trends and Challenges	2	
	10	Education and Health	2	
	11	Gender and Development	2	
	12	Social Security Measures in Kerala	2	
		11		
	12	Unemployment: Causes, Trend and Consequences	2	
	13	Growth of Informal Sector in Kerala	2	10
III	14	Greying Population: Trend, Concern and Challenges	2	18
	15	Banking and Tourism	2	
	16	External Sector in Kerala: External Trade- Pattern and Trend.	3	
		State Finance and Planning	10	
	18	Financial Indicators of State Government	2	
	19	Fiscal Deficit and Public Debt	2	
IV	20	People's Plan Campaign and Decentralized Planning	2	15
	21	Fiscal Decentralization: Achievements and Challenges in Kerala	2	
	22	Inclusive Growth in Kerala	2	
		Open Ended Module uggested Exercises (Arrange any two appropriately)	30	
T 7	1	Assignment on identification of data base on Kerala Economy and interpretation of the given data		
V	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		

Note: The syllabus has five modules. There should be total 22 units in the first four modules together, composed of the theory topics. The number of units in the last module can vary. There are 45 instructional hours for the first four modules and 30 hrs for the final one. Module V is designed to equip students with practical skills. The 20 marks for the evaluation of practical will be based on Module V. Internal assessments (30 marks) are split between the practical module (20 marks) and the first four modules (10 marks). The end-semester examination for the theory part will be based on the 22 units in the first four modules. The 70 marks shown in the last column, distributed over the first four modules, are only for the external examination.

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.

	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6	PSO7	PSO8	PSO9
CO 1	1	-	-	-	-	-	3	-	-
CO 2	-	2	-	-	-	-	3	-	-
CO 3	-	2	-	-	-	-	3	-	-
CO 4	1	2	-	-	-	-	3	-	-
CO 5	1	-	-	-	-	-	3	-	-

MAPPING OF COS WITH PSOS:

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	\checkmark	\checkmark		\checkmark
CO 2	\checkmark	\checkmark		\checkmark
CO 3	\checkmark	\checkmark		\checkmark
CO 4	\checkmark	\checkmark		\checkmark
CO 5		\checkmark		

Programme	B.A. Economics w	ith Foreign T	Trade				
Course Title	MACROECONO	MACROECONOMIC MODELS AND MEASUREMENT					
Type of Course	Major	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 C	Course of lev	el 300 – 399)			
Course Summary	macroeconomic m	This course is a modern approach to macroeconomics by building macroeconomic models from microeconomic principles, consistent with the way that macroeconomic research is conducted today.					

СО	CO Statement	Cognitive Level*	Knowledge Category#	Evaluation Tools used			
CO1	Allows deeper insights into economic growth processes and business cycles.	U	С	Instructor- created exams / Quiz			
CO2	Integrates the study of macroeconomics with approaches in courses in microeconomics and in field courses in economics	Ар	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			
# - Fa	 * - 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
		Measurement Issues in Macroeconomics	13	
	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	
Ι	5	Labour Market measurement : unemployment rate, participation rate, employment/population ratio	2	20
	6	Business 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	
	7	Competitive equilibrium	2	
	8	Optimality	2	
II	9	Sources of social inefficiency	2	18
	10	2		
	11	Effects of change in total factor productivity	2	
	12	Effects of a distorting labour income tax	2	
]	wo Period Model of Consumption-Savings Decision	11	
	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	18
	17	How the consumer responds to changes in his or her current income, future income, and the market real interest rate	2	10
	18	Competitive equilibrium	2	
	19	The Ricardian Equivalence Theorem	2	
		Money, Banking, Prices and Monetary Policy	9	
	20	Monetary Intertemporal Model – Fisher relation – Competitive equilibrium	3	14
IV	21	Money neutrality in the monetary intertemporal model.	3	14
	22	Conventional Monetary Policy, the Liquidity Trap, and Unconventional Monetary Policy	3	
	Cor	nstruction of Macroeconomic Models with reference to Indian Economy	30	
V		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 M	lonetary Policy	

Note: The syllabus has five modules. There should be total 22 units in the first four modules together, composed of the theory topics. The number of units in the last module can vary. There are 45 instructional hours for the first four modules and 30 hrs for the final one. Module V is designed to equip students with practical skills. The 20 marks for the evaluation of practical will be based on Module V. Internal assessments (30 marks) are split between the practical module (20 marks) and the first four modules (10 marks). The end-semester examination for the theory part will be based on the 22 units in the first four modules. The 70 marks shown in the last column, distributed over the first four modules, are only for the external examination.

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	PSO7	PSO8	PSO9
CO 1	3	-	-	-	-	-	-	-	-
CO 2	-	-	-	-	-	-	3	2	-
CO 3	-	-	-	-	-	-	2	3	-
CO 4	-	-	1	-	-	-	2	3	-
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
- Final Exam (70%)

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

Programme	B.A. Economics with Foreign Trade						
Course Title	APPLIED MICRO	APPLIED MICROECONOMICS AND EVALUATION					
Type of Course	Major						
Semester	VIII						
Academic Level	400 - 499	400 - 499					
Course Details	Credit	Lecture	Tutorial	Practical	Total		
		per week	per week	per week	Hours		
	4	4	-	-	60		
Pre-requisites	Microeconomics c	ourse of 300	– 399 level				
Course Summary	This course provide	es different a	spects of mic	roeconomic a	nalysis while		
	emphasizing real-world economic problems and incorporating coverage						
	of the most innova	tive subjects	in the discip	oline.	_		

СО	CO Statement	Cognitive Level*	Knowledge Category#	Evaluation Tools used			
CO1	Understand mechanism of market	U	F	Instructor-created exams / Quiz			
CO2	Analyse the market situation when externality is present	An	Р	Instructor-created exams / Quiz			
CO3	Evaluate market working with asymmetric information	Е	Р	Seminar Presentation / Group Discussion			
CO4	Apply economic theory to solve welfare maximization problems and for fair allocation	Ap	Р	Instructor-created exams / Home Assignments/Viva-voce			
CO5	Create a model for depicting the real nature of welfare of society	С	М	Practical Assignment / Observation of Practical Skills			
# - Factua	 * - 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			Hrs	Marks
		Exchange	18	
	1	Market Trade	2	
	2	The Algebra of Equilibrium	2	
	3	Walras' Law	2	
I	4	Relative Prices	2	25
I	5	The Existence of Equilibrium	2	25
	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	
		Welfare	10	
	10	Aggregation of Preferences	2	
п	11	Social Welfare Functions	2	15
11	12	Welfare Maximization	2	15
	13	Individualistic Social Welfare Functions	2	
	14	Fair Allocations, Envy and Equity	2	
		Externalities	10	
	15	Quasilinear Preferences and the Coase Theorem	3	
III	16	Production Externalities	3	15
	17	Market Signals	2	
	18	The Tragedy of the Commons	2	
		Asymmetric Information	10	
	19	The Market for Lemons, Quality Choice, Adverse Selection	4	
IV	20	Moral Hazard, Moral Hazard and Adverse Selection	3	15
	20	Signalling	2	
	21	Incentives	1	
		Application of Microeconomic Theories in India	1 12	
	1	Discussion based on welfare effects of pollution and	14	
		environmental degradation in India		
v		Practical Assignments on calculation of producer and		
•		consumer welfare in a given market		
		Seminar on how changes in policy alter the market		
		equilibrium and impact social welfare		
		equinorium and impact social wenate		

Note: The course is divided into five modules, with four modules together having total 22 fixed units and one open-ended module with a variable number of units. There are total 48 instructional hours for the fixed modules and 12 hours for the open-ended one. Internal assessments (30 marks) are split between the open-ended module (10 marks) and the fixed modules (20 marks). The final exam, however, covers only the 22 units from the fixed modules. The 70 marks shown in the last column, distributed over the first four modules, are only for the external examination.

REFERENCE:

1. Varian, H. R. (2014). Intermediate Microeconomics with Calculus: A Modern Approach: International 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.

	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6	PSO7	PSO8	PSO9
CO 1	3	-	-	-	-	-	-	-	-
CO 2	-	-	-	-	-	-	3	2	-
CO 3	-	-	-	-	-	-	2	3	-
CO 4	-	-	-	-	-	-	3	-	-
CO 5	-	-	-	-	-	-	-	-	3

MAPPING OF COS WITH PSOS:

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	\checkmark	\checkmark		\checkmark
CO 2	\checkmark	\checkmark		\checkmark
CO 3	\checkmark	\checkmark		\checkmark
CO 4	\checkmark	\checkmark		\checkmark
CO 5			\checkmark	

Programme	B.A. Economics wi	B.A. Economics with Foreign Trade			
Course Title	HETERODOX EC	CONOMICS			
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	Advanced economi	c course on N	Aicroeconom	ics, Macroeco	onomics and
	Development Econ	omics of 30	0 – 399 leve	1	
Course Summary	This course intends	This course intends to provide an alternative perception to the economic			
	theories, principles	and concept	s.		

СО	CO Statement	Cognitive Level*	Knowledge Category#	Evaluation Tools used		
CO1	To understand the alternative approach to economics	U	С	Instructor-created exams / Practical Assignment		
CO2	Understand the various theories of value and the heterodox theories of distribution.	U	С	Assignments / Quiz		
CO3	To discern the micro-macro links from the perspective of heterodox economics.	Ap	Р	Observation of Practical Skills / Group Discussion		
CO4	To view aggregation problems from a different perspective and redefine welfare accordingly	Ap	Р	Observation of Practical Skills / Home Assignments		
CO5	Use systemist framework to evaluate real-world economic problems and issues.	Е	Р	Group Discussion / Instructor-created exams		
CO6	To explore feminist, ecological and radical discourses.	Е	Р	Group Discussion / Practical Assignment Viva Voce		
# - Factu	 * - 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	
		A Heterodox View of the Economy	8		
	1	What is heterodox economics?	1		
	2	Evolution of heterodox economics	2	- 12	
	3	From classical political economy to neoclassical economics	1		
Ι	4	From classical political economy to heterodox economics	1	12	
	5	Heterodox economic theory and the social provisioning process.	3		
		Heterodox Theories of Value	10		
	6	Theory of Value by Adam Smith	2		
II	7	Ricardo's conception of value	2	14	
	8	Marxian approach to value	2		
	9	Sraffa's approach	4		
		Heterodox Theories of Distribution	15		
	10	Recent developments in heterodox theories	3	-	
	11	Classical and Marxian theory	3		
	12	Cambridge theory	2	22	
III	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		
		Micro- Macro Link in Heterodox Economics	15		
	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		
IV	18	Relations matter: There is real novelty	2	22	
	19	Aggregation and Welfare	2		
	20	Systemism as a general frame work	2		
	21	Systemism and heterodoxy - key ideas and concepts	2		
	22	Heterodox economics in a systemist framework	2		
		Open Ended Module	12		
		Discussion based on Feminist Economics, Ecological Economics and Radical Economics			
V		Seminars to discuss and evaluate the state of affairs and		1	
		policy related to women and ecology.			
		Group discussion and Assignments to understand radical economics.			
		cononnes.			

Note: The course is divided into five modules, with four modules together having total 22 fixed units and one open-ended module with a variable number of units. There are total 48 instructional hours for the fixed modules and 12 hours for the open-ended one. Internal assessments (30 marks) are split between the open-ended module (10 marks) and the fixed modules (20 marks). The final exam, however, covers only the 22 units from the fixed modules. The 70 marks shown in the last column, distributed over the first four modules, are only for the external examination.

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.

	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6	PSO7	PSO8	PSO9
CO 1	3	-	-	-	-	-	2	-	-
CO 2	3	-	-	-	-	-	2	-	-
CO 3	-	-	-	-	-	-	3	2	-
CO 4	-	-	-	-	-	-	-	3	2
CO 5	-	-	-	1	1	-	2	3	-
CO 6	-	3	-	-	-	-	3	3	-

MAPPING OF COS WITH PSOS:

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	\checkmark	\checkmark		\checkmark
CO 2	\checkmark	\checkmark	\checkmark	\checkmark
CO 3	\checkmark	\checkmark	\checkmark	\checkmark
CO 4	\checkmark	\checkmark		\checkmark
CO 5	\checkmark	\checkmark		\checkmark
CO 6		\checkmark	\checkmark	

Programme	B.A. Economics with	B.A. Economics with Foreign Trade						
Course Title	METHODS FOR QUANTITATIVE RESEARCH IN ECONOMICS							
Type of Course	Major	Major						
Semester	VIII							
Academic Level	400 - 499							
Course Details	Credit	Lecture	Tutorial	Practical	Total Hours			
		per week	per week	per week				
	4	4	-		60			
Pre-requisites								
Course	This course provide	s a compreh	ensive found	lation in rese	arch design and			
Summary	statistical analysis tec	chniques for	economic res	search, coveri	ng topics such as			
	research methodology, data collection methods, statistical analysis, software							
	applications, and advanced topics including regression analysis and							
	econometrics, with a	econometrics, with a focus on ethical considerations throughout the research						
	process.			_				

СО	CO Statement	Cognitive Level*	Knowledge Category#	Evaluation Tools used
CO1	Demonstrate a solid understanding of the fundamental principles of research design, including different types of research methodologies and sampling techniques.	U	F	Instructor- created exams / Quiz
CO2	to apply various statistical analysis techniques, such as hypothesis testing, regression analysis, and econometric methods, to real-world economic research problems	Ар	Р	Practical Assignment
CO3	critically analyze research problems, identifying gaps in existing literature, formulating meaningful research questions, and selecting appropriate research designs to address these questions.	E	F	Seminar Presentation / Group Discussion
CO4	Synthesize information from various sources, including primary and secondary data, to create well- constructed and logically organized research proposals and projects.	Ap	Р	Instructor- created exams / Home Assignments
CO5	Evaluate the reliability and validity of research findings, interpret statistical	Е	С	Instructor- created exams /

	results, and communicate their			Home	
	research effectively through written			Assignments	
	reports and presentations. They will				
	also.				
	Create comprehensive research				
CO 6	projects that demonstrate a mastery of	٨٣	Р		
000	quantitative research methods in the	Ар			
	field of economics				
* - Remember (R), Understand (U), Apply (Ap), Analyse (An), Evaluate (E), Create (C)					
# - Factual Knowledge(F) Conceptual Knowledge (C) Procedural Knowledge (P)					
Metacog	nitive Knowledge (M)				

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Note: The course is divided into five modules, with four modules together having total 22 fixed units and one open-ended module with a variable number of units. There are total 48 instructional hours for the fixed modules and 12 hours for the open-ended one. Internal assessments (30 marks) are split between the open-ended module (10 marks) and the fixed modules (20 marks). The final exam, however, covers only the 22 units from the fixed modules. The 70 marks shown in the last column, distributed over the first four modules, are only for the external examination.

REFERENCE:

- 1. Research Methodology: A Step-by-Step Guide for Beginners" by Ranjit Kumar New age international Publishers.
- 2. Research Methodology in Social Sciences Paperback by Shridhar Patil & Aditya New India Publishing Agency
- 3. Methodology of Research In Social Sciences, Krishnaswamy, O.R. Himalya publishing House,
- 4. 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.
- Bairagi, V., &Munot, M. V. (Eds.). (2019). Research methodology: A practical and scientific approach. CRC Press.
- 4. Creswell, J. W., & Creswell, J. D. (2017). Research design: Qualitative, quantitative, and mixed methods approaches. Sage publications

	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6	PSO7	PSO8	PSO9
CO 1	3	1	-	-	-	-	-	-	-
CO 2	-	-	-	-	-	-	-	3	
CO 3	-	-	-	3	-	-	-	-	2
CO 4	-	-	-	-	-	-	3	1	-
CO 5	-	-	-	-	-	2	-	-	2
CO6	-	-	-	-	-	-	3	-	3

MAPPING OF COS WITH PSOS:

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	\checkmark	\checkmark		\checkmark
CO 2	\checkmark	\checkmark	\checkmark	\checkmark
CO 3	\checkmark	\checkmark	\checkmark	\checkmark
CO 4	\checkmark	\checkmark	\checkmark	\checkmark
CO 5	\checkmark	\checkmark	\checkmark	

Programme	B.A. Economics with Foreign Trade							
Course Title	METHODS FOR QUALITATIVE RESEARCH IN ECONOMICS							
Type of Course	Major	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								
Course	This course provides	a comprehe	ensive overv	iew of qualita	tive research			
Summary	methods in economic	es, covering to	opics such as	philosophica	l foundations,			
	research design, sa	ampling, d	ata collecti	on techniqu	es, analysis .			
	techniques, interpre	tation, and	advanced	topics inclu	ding ethical			
	considerations and th	ne integration	n of qualitat	ive methods	with big data			
	approaches.	-	-		-			

CO	CO Statement	Cognitive Level*	Knowledge Category#	Evaluation Tools used
CO1	Articulate the philosophical foundations of qualitative research, distinguishing between post-positivism, critical realism, and constructivism.	U	F	Instructor- created exams / Quiz
CO2	Conduct data analysis skillfully, through advanced approaches like discourse analysis and ethnographic content analysis, synthesizing information from diverse sources.	An	Р	Practical Assignment
CO3	Critically evaluate ethical challenges in advanced qualitative research designs and assess the strengths and limitations of various qualitative methods.	E	F	Seminar Presentation / Group Discussion
CO4	Proficiently design and justify complex qualitative research studies utilizing advanced methodologies	Ар	Р	Instructor- created exams / Home Assignments

	such as multi-method approaches and case studies.							
CO5	Produce an original publishable-quality research paper, creatively applying emerging trends in qualitative research, including big data and digital ethnography.	Ap	F	Instructor- created exams / Home Assignments				
* - 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 Qualitative Research in Economics	16	
	1	Overview of Research Methods – Quantitative and qualitative strength and limitations of Qualitative research.	2	
	2	Philosophical Foundations - Understanding ontology and epistemology in qualitative research - Positivism - constructivism – Critical realism	3	
Ι	3	Review of literature	2	22
-	4	Formulation of research problem - Identification conceptualization and operationalization of the problem	3	
	5	Research Design in Qualitative Research - Defining research questions and objectives	3	
	6	Choosing appropriate qualitative research designs - Case study, grounded theory, ethnography, and phenomenology	3	
	Samp	ling and Data Collection Techniques in Qualitative Research	12	
	7	Sampling methods: Purposeful sampling technique- Snowball sampling - Critical case sampling-Theoretical sampling.	3	
II	8	Data collection methods: In-Depth Interviews - Focus Group Discussions - Observation	3	18
	9	Document Analysis -Examining primary and secondary sources	2	
	10	Multi method approach	2	
	11	Case study approach	2	
		Data Analysis in Qualitative Research	10	
	12	Techniques: Thematic analysis - Content analysis - Constant comparative analysis	2	
III	13	Coding and categorization- Discourse analysis- Narrative analysis.	2	15
	14	Scaling Techniques: Likert Scale – Thurstone scale – Guttman scale	2	
	15	Introducing Qualitative Data Software	2	

	16	Interpretation and Writing	2	
	17	Hermeneutics. The role of theory in qualitative research in	2	
		economics		
		Advanced Topics in Qualitative Research in Economics	10	
	18	Recent trends and issues in Qualitative research	2	
IV	19	Power Dynamics And reflexivity	2	15
1 V	20	Big data and qualitative Research methods	2	15
	21	Ethical considerations specific to qualitative research.	2	
	22	Evaluating the impact of economic policies	2	
V		Open Ended Module	12	
v		Discussion : Identify a research paper (Qualitative research work)		
		Practical Assignments: Preparation of interview Shedule/		
		questionnaire		
		Seminar: Review a research paper and present it		

Note: The course is divided into five modules, with four modules together having total 22 fixed units and one open-ended module with a variable number of units. There are total 48 instructional hours for the fixed modules and 12 hours for the open-ended one. Internal assessments (30 marks) are split between the open-ended module (10 marks) and the fixed modules (20 marks). The final exam, however, covers only the 22 units from the fixed modules. The 70 marks shown in the last column, distributed over the first four modules, are only for the external examination.

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 Publishing Agency
- 3. Krishnaswamy, O.R. Methodology of Research In Social Sciences, Himalya publishing House, 1993

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.
- Bairagi, V., & Munot, M. V. (Eds.). (2019). Research methodology: A practical and scientific approach. CRC Press.
- 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	PSO7	PSO8	PSO9
CO 1	1	1	-	-	-	-	-	-	-
CO 2	-	-	-	3	-	-	-	2	
CO 3	-	-	-	-	-	-	3	-	2
CO 4	-	-	-	-	-	-	-	3	-
CO 5	-	-	-	-	-	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	\checkmark	\checkmark		\checkmark
CO 2	\checkmark	\checkmark		\checkmark
CO 3	\checkmark	\checkmark	\checkmark	\checkmark
CO 4	\checkmark	\checkmark	\checkmark	\checkmark
CO 5	\checkmark	\checkmark	\checkmark	

Elective Courses in Economics with Foreign Trade

Programme	B.A. Economics with	B.A. Economics with Foreign Trade						
Course Title	GENDER ANALYSIS IN ECONOMICS							
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	Basic Economics Co	ourse of 200	– 299 level					
Course Summary	-	Basic Economics Course of 200 – 299 level 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					
CO1	Understand the basic concepts of gender and gender economics and to recognise the gender mainstreaming initiatives.	U	С	Instructor-created exams / Quiz/Assignment					
CO2	Examine the peculiarities, role and challenges of gender in the labour market participation	Е	С	Instructor-created exams / Practical Assignment / Observation of Practical Skills					
CO3	Analyse the basic tools of gender Economics	An	Р	Instructor-created exams / Seminar Presentation / Group Discussion					
CO4	Develop the attitude and ability to preserve the concept of women empowerment and gender equality in the society.	Ар	Р	Instructor-created exams / Home Assignments					
CO5	Suggest and practice certain measures for protecting gender equality and gender well being	Ар	Р	Writing assignments/Survey/Debate					
# - Fa	* - 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 Gender Economics	12	
I	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 rd and &74 th 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	17
	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	
		Gender and Labour Market	12	
	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	
II	10	Time use and Indian Time Use survey (1999-2000& 2019) for assessing women's labour at home and workplace	3	17
	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	
		Tools for Gender Economics	10	
III	14	Gender Planning-Definition, importance, process and stakeholders	3	- 15
111	15	Gender Budgeting: Definition, Importance, process and stakeholders	3	13
	16	Gender Auditing: Definition, Importance and process	4	
		Tools for Women Empowerment	14	
	17	Women and education- GER ratio in India -Addressing gender inequalities in education	3	
TX 7	18	Gender equity in health-access to nutrition	2	
IV	19	Women's participation in decision making	2	21
	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		Open Ended Module	12	

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			

Note: The course is divided into five modules, with four modules together having total 22 fixed units and one open-ended module with a variable number of units. There are total 48 instructional hours for the fixed modules and 12 hours for the open-ended one. Internal assessments (30 marks) are split between the open-ended module (10 marks) and the fixed modules (20 marks). The final exam, however, covers only the 22 units from the fixed modules. The 70 marks shown in the last column, distributed over the first four modules, are only for the external examination.

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.
- A. Venkateswarlu, et al. (2013), Dimensions of Female Sex Ratio: Interstate Variations in India, Serials Publications, New Delhi.
- 4. Desai, N and M.K Raj (1974), Women and Society in India, SNDT University, Mumbai.
- 5. Sen, Amartya. (1990), *More than 100 million Women are Missing*, New York Review of Books, vol.37, No.20, 1990.
- 6. Govt.of India (2009), *Gender Equality and Women Empowerment in India*, National Family Health Survey 2005-06 (NFHS-3), IIPS, Mumbai.
- 7. John Mary. E (1996), Gender and Development in India, EPW, 31(47), PP 3071-77).
- 8. Pal, Manoranjan et.al (Ed) (2011), *Health, Nutritional Status and Role of Women in India*, Oxford University Press, New Delhi.
- 9. 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	PSO7	PSO8	PSO9
CO 1	3	1	-	-	2	-	-	-	-
CO 2	1	2	-	3	-	-	2	-	-
CO 3	-	-	1	3	-	-	2	-	-
CO 4	-	-	-	2	-	-	3	2	-
CO 5	-	-	-	-	-	2	3	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	\checkmark	\checkmark		\checkmark
CO 2	\checkmark	\checkmark	\checkmark	\checkmark
CO 3	\checkmark	\checkmark	\checkmark	\checkmark
CO 4	\checkmark	\checkmark	\checkmark	\checkmark
CO 5		\checkmark	\checkmark	

Programme	B.A. Economics with Foreign Trade						
Course Title	ENVIRONMENT AND SUSTAINABLE DEVELOPMENT						
Type of Course	Elective						
Semester	V						
Academic Level	300 - 399						
Course Details	Credit	Lecture	Tutorial	Practical	Total		
	per week per week Hours						
	4	4	-	-	60		
Pre-requisites	Economics Course of 200 – 299 level						
Course Summary	This course explores the relationship between environment and economy						
	and through which students put forward various sustainable development						
	models						

CO	CO Statement	Cognitive Level*	Knowledge Category#	Evaluation Tools used		
CO1	Understand the concept of environmental economics and its importance	U	C	Instructor-created exams / Quiz		
CO2	Analyze various theories on		Р	Practical Assignment / Observation of Practical Skills		
CO3	Evaluate the problem of pollution	U	Р	Seminar Presentation / Group Discussion		
CO4	CO4 Apply the theoretical knowledge in reducing environmental degradation		С	Instructor-created exams / Home Assignments		
CO5	Assess various environmental issues	U	F	Writing assignments		
CO6	Create/ suggest various sustainable development models	Ap	Р	Visiting and writing reports		
 * - 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		Content	Hrs	Marks
		Environment and Economy	12	
	1	The Environment and Economy- meaning and scope of environmental economics-	3	
Ι	2	Major environmental problems, types of pollutions, Global warming and Ozone depletion.	3	17
	3	The environmental Kuznet curve-	3	
	4	Limit to growth theory- Green GDP	3	
		Externalities and Regulations	15	
	5	Market failure and causes	2	
	6	Kinds of Externalities	1	
	7	Negative externalities and inefficiency	1	
п	8	Positive externalities and inefficiency	1	22
11	9	Regulating externalities -prices- Fixing Emission standard and Emission Fees, Tradeable emission permits, recycling	4	22
	10	Pigouvian taxes	1	
	11	Optimum level of pollution control	2	
	12	Property rights and Coase Theorem	3	
		Measuring Environmental Values	10	
	13	Environmental impact assessment- preventive expenditure technique- replacement cost technique- travel cost method-contingent valuation	4	15
III	14	National income accounting for the environment	2	15
	15	The harvesting of renewable resources and maximum sustainable yield	2	
	16	Non-renewable resources and optimal depletion	2	
		Sustainable Development	11	
	17	Sustainable development: concepts and practices- measurement	4	
TX 7	18	Earth summits	1	16
IV	19	Sustainable developmental goals	1	16
	20	Agenda 21	1	
	21	Sources and use of non-conventional and renewable energy	2	
	22	Organic farming	2	
	┣──	Open ended Module	12	
		Report on waste management by visiting local dumping yards of the local		
V		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		
	I	, ist organic runn nouses and make report on its economic side		

Note: The course is divided into five modules, with four modules together having total 22 fixed units and one open-ended module with a variable number of units. There are total 48 instructional hours

for the fixed modules and 12 hours for the open-ended one. Internal assessments (30 marks) are split between the open-ended module (10 marks) and the fixed modules (20 marks). The final exam, however, covers only the 22 units from the fixed modules. The 70 marks shown in the last column, distributed over the first four modules, is only for the external examination.

REFERENCE:

- 1. Charles D Kolstad, (2010). *Intermediate environmental economics*, 2nd 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.
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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 theenvironment:Selectedreadings,5th ed. W. W. Norton

	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6	PSO7
CO 1	3	-	-	-	-	-	-
CO 2	-	3	-	1	-	-	2
CO 3	3	-	-	1	-	-	-
CO 4	-	3	1	2	-	-	3
CO 5	3	-	-	-	-	-	2
CO 6	-	2	2	3	3	-	3

MAPPING OF COS WITH PSOS:

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	\checkmark	\checkmark		\checkmark
CO 2	\checkmark		\checkmark	\checkmark
CO 3	\checkmark	\checkmark		\checkmark
CO 4	\checkmark	\checkmark		\checkmark
CO 5		\checkmark	\checkmark	
CO 6			\checkmark	

Programme	B.A. Economics with Foreign Trade					
Course Title	ECONOMIC DATA	ABASE MA	NAGEMEN	Т		
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	Intermediate Level Economics Courses of 200 – 299 level					
Course Summary	Explore the intersection of economics and database systems, covering					
	data sources, case st	udies, and ed	conomic ana	lysis.		

СО	CO Statement	Cognitive Level*	Knowledge Category#	Evaluation Tools used				
CO1	Understand the fundamentals of database management and its importance in economics	U	С	Instructor-created exams / Quiz				
CO2	Learn how to query a database to extract relevant economic data	U	С	Seminar Presentation / Group Discussion				
CO3	Check reliability and quality of data	E	Р	Seminar Presentation / Group Discussion				
CO4	Comparison of different data sources	An	Р	Instructor-created exams / Home Assignments				
CO5	Develop skills in data analysis using database tools and technologies	Ap	Р	Practical Assignment / Observation of Practical Skills				
# - Fac	 * - 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 Sources Of Data	15			
	1	An introduction to the role of data in economic history-the physiocrats- Quesnay- Hume- William Petty- Kuznets	5			
	2	Modern data sources	2			
-	3	Scale of measurement	2	22		
Ι	4	4 Data transformations; level v/s growth rates				
	4 Data transformations; level v/s growth rates 5 Sources of data		1			
	6	6 Data reporting delay				
	7	Length of data	1	1		
	8	Accuracy of data	1			
		India's Specific Data Sources	15			
	9	The role of National Sample Survey Organisation	1			
	10	Central statistical organization	1			
	11	Annual Survey of Industries	1			
	12	RBI- Handbook of Statistics on Indian Economy	2			
II	13	SEBI handbook of statistics	2	22		
	14	Data set- Employee Provident Fund Organization	2			
	15	Ministry of Corporate affairs	2			
	16	Database on Indian economy - Census dataset- open government data platform in India	2			
	17	National family health survey	2			
	17	Global Data Sources	<u>2</u> 8			
		UN data- monthly -Monthly bullets of statistics-SDG	0	1		
	18	indicators- UN comtrade data base-UN conference on trade	4			
		and development- Climate change indicators- dashboard	-			
III		International financial statistics- financial access survey-		12		
	19	government finance statistics- the World bank data				
		catalogue- the global index data base- Federal Reserve	4			
		economic data base (FRED)				
		Case Studies and Controversies	10			
		The minimum wage controversy-the backward bending]		
	20	supply curve for labour- GDP calculation-Inflation	4			
		Calculation-Purchasing Power Parity calculations				
IV	21	Reinhart-ROGOFF controversy- public data manipulation	3	14		
		Greece's public deficit figures-controversies about				
	22	Argentina's inflation statistics- the Brazilian fiscal pedaling-	3			
	22	limitations of publicly available data (case studied of	5			
		relevant economies)				
		Open Ended Module	12			
		Discussion on reliability of data from different sources		ļ		
V		Practical Assignments to extract data from various sources		ļ		
		Seminar on the influence and value of data-based evaluation				
		of different schemes, situations and problems				

Note: The course is divided into five modules, with four modules together having total 22 fixed units and one open-ended module with a variable number of units. There are total 48 instructional hours for the fixed modules and 12 hours for the open-ended one. Internal assessments (30 marks)

are split between the open-ended module (10 marks) and the fixed modules (20 marks). The final exam, however, covers only the 22 units from the fixed modules. The 70 marks shown in the last column, distributed over the first four modules, are only for the external examination.

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	PSO7	PSO8	PSO9
CO 1	3	-	-	-	-	-	-	-	-
CO 2	3	-	-	2	-	-	2	-	1
CO 3	-	-	-	-	-	-	3	1	-
CO 4	3	-	-	1	-	-	-	-	-
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	\checkmark	\checkmark		\checkmark
CO 2	\checkmark			\checkmark
CO 3	\checkmark	\checkmark		\checkmark
CO 4	\checkmark	\checkmark		\checkmark
CO 5			\checkmark	

Programme	B.A. Economics with	n Foreign Tra	ade		
Course Title	ECONOMICS OF I	LABOUR M	IARKET		
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	Course on Microeco	nomics and	Macroecono	mics of level	200 - 299
Course	This course explores	the intricate	dynamics of	labour marke	ets, providing
Summary	students with a comprehensive understanding of the functioning of labour				
	markets, and coveri	ng fundame	ntal concept	s, historical d	levelopment,
	labour market outcom	mes and con	temporary is	ssues.	

СО	CO Statement	Cognitive	Knowledge	Evaluation Tools			
CO	CO Statement	Level*	Category#	used			
CO1	Understand the basic concept of labour economics, labour markets and labour force participation.	U	С	Instructor-created exams / Quiz			
CO2	Analyze theories of labour supply, labour demand and wage discrimination	An	Р	Practical Assignment			
CO3	Evaluate wage determination in different market conditions and the impact of labour unions	Е	F	Seminar Presentation / Group Discussion			
CO4	Apply the theories and contribute to better labour market outcomes.	Ap	Р	Instructor-created exams / Home Assignments			
CO5	CO5 CO5 CO5 CO5 CO5 CC5 CC5 CC5 CC5 CC5		F	Viva Voce			
	* - Remember (R), Understand (U), Apply (Ap), Analyse (An), Evaluate (E), Create (C)						
	al Knowledge(F) Conceptus ive Knowledge (M)	al Knowledge	(C) Procedur	al Knowledge (P)			

Module	Unit	Content	Hrs	Marks
		Labor Market and Labour Supply	10	
	1	Labour Market and the Economy - Unique features of Labour market	1	
	2	Evolution of Labour Market Theory-Labour market Process.	2	
Ι	3	Labour Supply-The Theory of Labour/Leisure Choice- Income taxes and Labour supply	2	14
	4	Supply of Salaried and Contract Labourers- Labour Supply Curve.	2	
	5	Labour Force Participation- Its Measurement- Convergence of Participation Rates	3	
		Labour Demand	15	
	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	
II	8	Short-run Equilibrium in Labour Demand	2	23
	9	Elasticity of Demand for Labour	3	
	10	Demand for Labour in the Long Run- Long Run Equilibrium -	2	
	11	Determinants of Elasticity of Labour Demand- Technological Change and Labour Demand.	4	
	Wage	e Determination, Wage Differential and Discrimination	15	
	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	22
III	16	Compensating Wage Differentials	1	23
	17	Hedonic Theory of Compensating Wage Differentials	1	
	18	Economics of Employee Benefits	1	
	19	Issues of Occupational Segregation-Duncan Index	3	
	20	4		
		Union Membership and Collective Bargaining	8	
IV	21	Type of Labour Unions- The Determinants of Union Membership: Demand and Supply Model -Equilibrium level of Union Membership.	4	10
	22	The Union-Management Bargaining Process-Contract Zone-Union and Employer Reaction Function- Bargaining Process Outcomes	4	

	Open Ended Module	12			
	Discussion : Measurement, Types of Unemployment and				
N7	Causes of Unemployment				
v	Practical Assignments on Unemployment Statistics of				
	India and Kerala				
	Seminar on Government Employment Programmes				

Note: The course is divided into five modules, with four modules together having total 22 fixed units and one open-ended module with a variable number of units. There are total 48 instructional hours for the fixed modules and 12 hours for the open-ended one. Internal assessments (30 marks) are split between the open-ended module (10 marks) and the fixed modules (20 marks). The final exam, however, covers only the 22 units from the fixed modules. The 70 marks shown in the last column, distributed over the first four modules, are only for the external examination.

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

	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6	PSO7	PSO 8	PSO 9
CO 1	3	-	-	-	-	-	-	-	-
CO 2	3	3	-	2	1	-	2	-	-
CO 3	-	3	-	2	-	-	-	-	-
CO 4	-	3	1	2	-	_	3	3	-
CO 5	-	3	-	2	-	-	1	2	-

MAPPING OF COS WITH PSOS:

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	\checkmark	\checkmark		\checkmark
CO 2	\checkmark	\checkmark	\checkmark	\checkmark
CO 3	\checkmark	\checkmark	\checkmark	\checkmark
CO 4	\checkmark	\checkmark	\checkmark	\checkmark
CO 5	\checkmark	\checkmark	\checkmark	

Programme	B.A. Economics with	h Foreign Tra	ade		
Course Title	HEALTH ECONO	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 cou	urse of 200 -	- 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				

СО	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					
# - Fa	 * - 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 Health Economics	12	19
	1	Definition and scope of health economics	1	
	2	Significance of Health Economics	1	
	3	Essential features of health economics	1	
Ι	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	
		Supply and Demand for Health Care	15	
	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	
II	11	Nature of demand for health- Determinants of demand for health	2	23
	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	
		Market for Health Insurance	10	
	15	Economics of health insurance- Demand for health insurance	1	
	16	setting insurance premium	1	
III	17	Insurance concepts -Co-payments. Co-insurance rates, deductibles. Method of pricing insurance;	3	14
	18	Health insurance challenges: Information asymmetry – Adverse selection -Moral hazard;	3	
	19	Private vs social health insurance.	2	
		Economic Evaluation of Health Interventions	11	
	20	Evaluating Health Intervention- Direct and indirect costs of healthcare	2	
IV	21 Issues in the measurement of cost; Purpose and methods of evaluating a health intervention		4	14
	22	Health policy of WHO - National health policy- NRHM- Health as a State subject.	5	
		Open Ended Module	12	
\mathbf{V}	1	An overview of the health scenario in India and Kerala		
V	2	Indian health care sector; Health Scenario in India and Kerala- issues – Kerala model of health.		

Note: The course is divided into five modules, with four modules together having total 22 fixed units and one open-ended module with a variable number of units. There are total 48 instructional hours for the fixed modules and 12 hours for the open-ended one. Internal assessments (30 marks) are split

between the open-ended module (10 marks) and the fixed modules (20 marks). The final exam, however, covers only the 22 units from the fixed modules. The 70 marks shown in the last column, distributed over the first four modules, are only for the external examination.

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. Santre 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.

	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6	PSO7	PSO 8	PSO 9
CO 1	3	-	-	-	-	-	-	-	-
CO 2	-	3	-	2	-	-	2	-	-
CO 3		2	-	2	-		-	2	-
CO 4	-	3	2	3	-	2	3	3	2
CO 5	3	-	-	-	-	2	2	1	1

MAPPING OF COS WITH PSOS:

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	\checkmark	\checkmark		\checkmark
CO 2	\checkmark	\checkmark	\checkmark	\checkmark
CO 3	\checkmark	\checkmark	\checkmark	\checkmark
CO 4	\checkmark	\checkmark	\checkmark	\checkmark
CO 5	\checkmark	\checkmark	\checkmark	

Programme	B.A. Economics with	B.A. Economics with Foreign Trade			
Course Title	HUMAN CAPITAI	L AND ECO	NOMIC DE	EVELOPMEN	NT
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	Course on Intermediate Economics of level 200 - 299				
Course Summary	This course explores the intersection between development economics				
	and the economics of	of human cap	oital		

СО	CO Statement	Cognitive Level*	Knowledge Category#	Evaluation Tools used			
CO1	Understand the relationship between human capital and economic development	U	С	Instructor-created exams / Quiz			
CO2	Analyze the various theories of human capital and economic development	An	Р	Practical Assignment			
CO3	Evaluate the different theoretical models	Ap	F	Seminar Presentation / Group Discussion			
CO4	Apply the theoretical models to real situations	Ap	С	Instructor-created exams / Home Assignments			
CO5	Create empirical research						
 * - 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	10	
	1	Human Capital : Definition and Concepts	2	
Ι	2	Relation between Human Capital and Economic Development	2	15
L	3	Measurement of Human Development	2	
	4	HDI and India		
	5 Problems of Human Capital Formation		2	
		Theoretical Aspects	12	
	6	Solow Model and Effective Capital	2	
II	7	Convergence Hypothesis	2	20
	8	Solow Residual	2	
	9	Research on Human Capital and Economic Growth	3	
	10	India's Experience	3	
		Advanced Theories	12	
	11	Theoretical models on Human capital and Economic Growth		
	12	Human Capital formation		
ш	13	Endogenous growth models	2	20
	14	Multiple equilibrium and Non-linearity in Human Capital and Economic growth	3	20
	15	Overlapping Generations model- Paul Samuelson & Peter Diamond	2	
		Empirical Aspects	14	
	16	The Empirics	2	
	17	Linear and Non-linear Specifications	2	
IV	18	Non –parametric method and their application	2	15
- '	19	Migration and regional economic growth	3	
	20	Demographic characteristics and economic growth Economic Policy and Human capital	2	
	21	2		
	22	Human Capital and Development experiences of Kerala	1	
v		Open Ended Module	12	
v		Assignments, Empirical studies, Problem Discussion		

Note: The course is divided into five modules, with four modules together having total 22 fixed units and one open-ended module with a variable number of units. There are total 48 instructional hours for the fixed modules and 12 hours for the open-ended one. Internal assessments (30 marks) are split between the open-ended module (10 marks) and the fixed modules (20 marks). The final exam, however, covers only the 22 units from the fixed modules. The 70 marks shown in the last column, distributed over the first four modules, are only for the external examination.

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	PSO7
CO 1	3	-	-	-	2	-	-
CO 2	-	-	-	2	-	-	2
CO 3	-	2	-	2	-	-	3
CO 4	-	2	-	1	1	-	3
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 Assignment		End Semester Examination
CO 1	\checkmark	\checkmark		\checkmark
CO 2	\checkmark			\checkmark
CO 3	\checkmark	\checkmark		\checkmark
CO 4	\checkmark	\checkmark	\checkmark	\checkmark
CO 5	\checkmark	\checkmark	\checkmark	

Programme	B.A. Economics with	B.A. Economics with Foreign Trade				
Course Title	FOREIGN TRADE	IN INDIA				
Type of Course	Elective					
Semester	V					
Academic Level	300 - 399	300 - 399				
Course Details	Credit	Lecture	Tutorial	Practical	Total .	
	Clean	per week	per week	per week	Hours	
	4	4	-	-	60	
Pre-requisites	Economics Courses of 200 – 299 level					
Course	This course aims to provide students with a broad based knowledge of					
Summary	foreign trade practice	es in India.				

СО	CO Statement	Cognitiv e Level*	Knowledg e Category#	Evaluation Tools used		
CO1	Understand economic concepts of international trade	U	С	Instructor-created exams / Quiz		
CO2	Understand the pattern and composition of India's external trade	U	С	Seminar Presentation / Group Discussion		
СО3	Recognize direction and future prospects of international trade of India.	R	F	Seminar Presentation / Group Discussion		
CO4	Provide knowledge of the foreign trade policy in India.	Ap	С	Instructor-created exams / Home Assignments		
C05	Identify the role, structure and functioning of international institutions related to foreign trade	R	F	Seminar Presentation / Group Discussion		
CO6	Understand the role of bilateral and multilateral trade agreements in foreign trade	U	С	Seminar Presentation / Group Discussion		
 * - Remember (R), Understand (U), Apply (Ap), # - Factual Knowledge(F) Conceptual Knowledge (C) 						

Module	Unit	Content	Hrs	Marks
		Introduction to Foreign Trade	11	
	1	Trade: its meaning and types.	2	
	2	Difference between internal and international trade		
I	3	Advantages of International Trade.	2	15
1	4	India's Internal Trade- Characteristics and Problems.	2	15
	5	Balance of trade(concept only)	1	
	6	Balance of payment(concept only)	1	
	7	India's Balance of Trade and Balance of Payments.	2	
		Foreign Trade in India	11	
	8	Recent trends in India's Foreign Trade since 1991	3	
II	9	Major Items of Exports: Composition, Direction and Future Prospects	3	20
	10	Major Items of Imports: Composition, Direction and Future Prospects.	3	
	11	India's Major trading partners	2	
		Foreign Trade Policy in India	14	
	12	Foreign trade policy: Major Provisions	3	
	13	Evaluation of the current FTP	3	
III	14	India's Import Policy	2	20
	15	India's export policy	2	
	16	Exchange rate policy in India.	2	
	17	Convertibility of Rupee and Impact on Foreign Trade.	2	
		Trade Agreements and Foreign Investment	12	
	18	Bilateral and Multilateral Trade Agreements-GATT and its impact on foreign trade of India	3	
IV	19	WTO- Origin, objectives, structure and functions	3	15
T 4	20	Foreign Investment Policy: Past and Present	2	15
	20	FDI in India	2	
	21	FII in India	2	
V		studies and practical applications	12	
v		Analyzing emerging trends in India's foreign trade.		

Note: The course is divided into five modules, with four modules together having total 22 fixed units and one open-ended module with a variable number of units. There are total 48 instructional hours for the fixed modules and 12 hours for the open-ended one. Internal assessments (30 marks) are split between the open-ended module (10 marks) and the fixed modules (20 marks). The final exam, however, covers only the 22 units from the fixed modules. The 70 marks shown in the last column, distributed over the first four modules, are only for the external examination.

REFERENCE:

- 1. Bhagwati J. Srinivasan Foreign Trade regimes and Economics development
- 2. Jaiswal Bimal & A.K.Singh Foreign Trade of India
- 3. Plaekar Trade of India
- 4. Salvi P.G. New Directions on India's Trade policy.
- 5. Cherrunilam F. International Trade Export Management
- 6. Singh, M India's Export trends
- 7. Varshney R.L. India's Foreign Trade

MAPPING OF COS WITH PSOS:

	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6	PSO7	PSO8	PSO9
CO 1	3	-	-	-	-	-	-	2	-
CO 2	-	1	1	-	-	-	-	2	-
CO 3	-	-	1	-	-	-	-	2	-
CO 4	2	-	-	-	-	-	-	2	-
CO 5	-	-	-	-	-	-	-	3	-
CO 6	-	-	-	-	-	-	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	1	1		✓ ✓
CO 2	1	1	\checkmark	1
CO 3	1	1	1	✓
CO 4	1	1		 ✓
CO 5	1	1	\checkmark	
CO 6			\checkmark	

Programme	B.A. Economics with Foreign Trade				
Course Title	INTERNATIONAL	ECONOMI	CS		
Type of Course	Elective				
Semester	V				
Academic Level	300 - 399				
Course Details	Credit	Lecture per week	Tutorial per week	Practical per week	Total Hours
	4	4	-	-	60
Pre-requisites	Economics Courses of 200 – 299 level				
Course	This course aims to provide students with a broad based knowledge of basics of international trade, theories of international trade and balance of payment.				
Summary	of international trade,	theories of in	nternational t	rade and bala	nce of payment.

COURSI	CO Statement	Cognitive Level*	Knowledge Category#	Evaluation Tools used
C01	Understand the fundamental principles of international 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	Help the beginning student master the fundamental ideas essential for understanding the international situations, specific international economic issues.	U	Р	Seminar Presentation / Group Discussion
CO4	Understand and apply the economic perspective and judge scientifically about international economic matters in a theoretical and practical level.	Ap	С	Instructor- created exams / Home Assignments
C05	Understand about the functioning of International economy and its working	U	С	Writing assignments
CO6	Develop critical thinking and problem-solving ability by applying the skills and knowledge to address complex international economic issues in the real world.	Ap	Р	Viva Voce
	and (U), Apply (Ap) ptual Knowledge (C) Procedura	l Knowledge (P)		

Module	Unit	Content	Hrs	Marks
	1	Basic Ideas of International Trade	12	
	2	Why we study the topic international trade	2	
I	3	Why do people engage in trade	2	15
1	4	Why do nations engage in trade	2	15
	5	What are the gains from international trade	2	
	6	Barriers of international trade	2	
		Thinking Like an Economist	12	
	7	Globalisation and international trade	2	
	8	Globalisation and Knowledge Economy	2	
II	9	Concept of Intellectual Property -IPRs and TRIPS	3	15
	10	Forms of IPRs: Patents, Trademarks, Copyrights, Designs & Geographical Indications	3	
	11	World Intellectual Property Organisation (WIPO)	2	
		Theories of International Trade	11	
	12	Mercantalist view on trade,	2	
	13	Absolute advantage theory of international trade	2	25
III	14	Comparative advantage theory	2	25
	15	Heckscher-ohlin theory	3	
	16	Leontief paradox	2	
		Balance of Payments	13	
	17	Balance of Payment- Meaning	1	
	18	Balance of Trade: meaning	2	
IV	19	Components of Balance of Payments: Current account, Capital account & Official settlement accounts	3	15
	20	Equilibrium and Disequilibrium in BOP	2	
	21	Methods of correcting Disequilibrium in BOP	3	
	22	Terms of trade	2	
		Case Studies and Practical Applications	12	
		Discussion on international trade in real world		
\mathbf{V}		Assignments based on international trade data		
		Seminar on the effect of international trade on an		
		economy		

Note: The course is divided into five modules, with four modules together having total 22 fixed units and one open-ended module with a variable number of units. There are total 48 instructional hours for the fixed modules and 12 hours for the open-ended one. Internal assessments (30 marks) are split between the open-ended module (10 marks) and the fixed modules (20 marks). The final exam, however, covers only the 22 units from the fixed modules. The 70 marks shown in the last column, distributed over the first four modules, are only for the external examination.

REFERENCE:

- 1. Krugman P., Obstfeld M. Melitz M. (KOM) International Economics: Theory and Policy,
- 2. Salvatore, Dominick, 'International Economics', Weily India New Delhi
- 3. Sodersten B., Reed G. (SR) International Economics, 3rd ed. Macmillan, 1994.

ADDITIONAL READINGS

- 1. C.P. Kindle Berger 'International Economics'.
- 2. Francis Cherumilam 'International Economics'.
- 3. Mannur, H.G. 'International Economics'

MAPPING OF COS WITH PSOS:

	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6	PSO7	PSO8	PSO9
CO 1	3	-	-	-	-	-	-	1	-
CO 2	-	-	-	-	-	-	3	3	-
CO 3	3	3	-	1	-	-	-	2	-
CO 4	-	-	-	-	-	-	3	3	-
CO 5	2	-	-	-	-	-	-	3	-
CO 6	-	3	-	1	-	-	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	\checkmark	\checkmark		\checkmark
CO 2	\checkmark	\checkmark	\checkmark	\checkmark
CO 3	\checkmark	\checkmark	\checkmark	\checkmark
CO 4	\checkmark	\checkmark	\checkmark	\checkmark
CO 5	\checkmark	\checkmark		\checkmark
CO 6	\checkmark	\checkmark		\checkmark

Programme	B.A. Economics with	h Foreign Tr	ade		
Course Title	INDUSTRIAL ECC	DNOMICS			
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	f 200 – 299	level		
Course Summary	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	Cognitive Level*	Knowledge Category#	Evaluation Tools used			
CO1	Identify the basic concepts and scope of Industrial Economics	U	С	Instructor- created exams / Quiz			
CO2	Analyse the different forms of organisation and its motives	An	С	Instructor- created exams /Practical Assignment			
CO3	Examine the general determinants and approaches of industrial location and explore the motives of mergers and acquisition	An	С	Instructor- created exams/ Semina r Presentation / Group Discussion/			
CO4	Evaluate the major source of industrial finance, financial statements, Ratio analysis and break- even analysis procedures in the Indian context.	Е	р	Instructor- created exams / Home Assignments/ Practical Assignment			
C05	Analyse basic investment decisions on the basis of project evaluation methods and cost benefit analysis	An	р	Instructor Created exams/Practica l Assignment /Writing assignments			
CO6	Access industrial practices prevailing in India on the basis of Industrial policy 1991, Labour rules, Industry innovations, Special economic zone, Ratio analysis and break-even point calculation etc	Ap	Р	Debate/panel discussion/ survey /Assignments			
# - Factu	 * - 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
		Basics and Scope of Industrial Economics	12	
	1	Nature and Scope of Industrial Economics	1	
	2	The organizational form and alternative motives of the firm	3	
Ι	3	The concept of Production function and optimal input	3	15
	4	Efficiency and Size of the firm	3	
	5	The effect of Firm size on other performance indicators and conduct	2	
		Industrial Location Analysis	12	
	6	The General determinants of industrial location	1	
	7	Geographical approaches to industrial location	3	
п	8	Economic theories of industrial location	4	15
11	9	Operational approaches to industrial location	1	15
	10	Industrial location trends in India	1	
	11	Concepts and motives for industrial diversification, vertical integration and mergers	2	
		Industrial Finance and Accounting	12	
	12	Types of finance and Sources of Industrial Finance (internal and external)	2	
	13	Contribution of various sources of finance in Indian Situation	2	20
III	14	Basic accounting procedure and financial statements (balance sheet and Profit &Loss account only)	3	20
	15	Assessment of Financial soundness and Ratio analysis	3	
	16	Breakeven analysis and its application in financial management	2	
		Investment Decisions	12	
	17	Nature and types of Investment decisions	1	
	18	Preparation of time profile of a project	2	
IV	19	Methods of project evaluation	4	20
	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	
		Open Ended Module	12	
	1	Conduct Student-led seminar on New Industrial policy 1991		
	2	Organize discussion on Industry and Innovation (Startup, Unicorn etc.		
V	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		

Note: The course is divided into five modules, with four modules together having total 22 fixed units and one open-ended module with a variable number of units. There are total 48 instructional hours for the fixed modules and 12 hours for the open-ended one. Internal assessments (30 marks) are split between the open-ended module (10 marks) and the fixed modules (20 marks). The final exam, however, covers only the 22 units from the fixed modules. The 70 marks shown in the last column, distributed over the first four modules, are only for the external examination.

REFERENCE:

- 1. Barthwal, R.R (2018), Industrial Economics, 3RD 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 Manufacturing: A Fresh Look- Working Paper No. 259, Thiruvananthapuram.

	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6	PSO7	PSO8	PSO9
CO 1	3	-	-	-	-	-	-	-	-
CO 2	1	2	-	2	-	-	-	-	-
CO 3	-	3	-	2	-	-	-	-	-
CO 4	-	-	-	3	-	-	-	2	-
CO 5	-	-	-	2	-	-	2	3	-
CO 6	-	-	-	-	-	-	2	3	

MAPPING OF COS WITH PSOS:

CORRELATION LEVELS:

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

ASSESSMENT RUBRICS:

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

	Internal Exam	Quiz / Assignment/ Viva Voce/ Discussion / Seminar	Practical Assignment	End Semester Examination
CO 1	\checkmark	\checkmark		\checkmark
CO 2	\checkmark	\checkmark		\checkmark
CO 3	\checkmark	\checkmark	\checkmark	\checkmark
CO 4	\checkmark	\checkmark	\checkmark	\checkmark
CO 5	\checkmark	\checkmark	\checkmark	\checkmark
CO 6			\checkmark	

Programme	B.A. Economics with	n Foreign Tr	ade		
Course Title	AGRICULTURAL	ECONOMI	ICS		
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	level		
Course Summary	This course provides an overview of the role of agriculture in the economic development, Economics of agricultural production, Pricing of agricultural products and the features associated to agricultural productivity and Marketing.				

СО	CO Statement	Cognitive Level*	Knowledge Category#	Evaluation Tools used			
CO1	Understand the basic concepts and models of agricultural economics related to the economic development of a country	U	С	Instructor- created exams / Quiz/ Assignments			
CO2	Analyse the theoretical foundations and optimization strategies of economics of agricultural production	An	С	Instructor- created exams /Practical Assignment			
CO3	Evaluate the behaviour of demand, supply and agricultural product price and judge the relevance of government intervention in the price fixation	Е	С	Instructor- created exams /Seminar Presentation / Group Discussion			
CO4	Demonstrate the structure and techniques of agriculture marketing in Indian context	An	С	Instructor- created exams / Home Assignments			
CO5 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			
# - Factual K	 * - 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 Agricultural Economics	12	
	1	Meaning, Nature and Scope of Agricultural Economics.	2	
	2	Role of agriculture in economic development	1	
Ι	3	Models of agricultural development (Schultz, Lewis, Fei& Ranis, Mellor, and Boserup)	5	20
	4	Interdependence between agriculture and industry	1	
	5	Terms of trade between agriculture and industry	1	
	6	Types of farming	2	
	0	Economics of Agricultural Production	<u></u> 18	
		Application of production function in Agriculture- Increasing	10	
		and decreasing production function, Law of variable proportion,		
	7	and the application of Cobb-Douglas production function in	4	
		Agriculture		
	8	Factor- Product relationship	2	
II			$\frac{2}{2}$	25
	9	Factor-Factor relationship		
	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	
		Behaviour of Demand, Supply and Agricultural prices	10	
		Instability of agriculture-price instability, income instability,		
	15	inelastic demand for and supply of agricultural products and	2	
		measures for reducing instability in agriculture		
III	16	Different views about supply response in agriculture	2	15
	17	Objectives and elements of agricultural price policy	2	
	18	Features of an ideal agricultural price policy	2	
		Agricultural price policy in India and the need for revision of		
	19	agricultural price policy in India	2	
		Agricultural Marketing	8	
	20	Types of agricultural marketing	2	
IV		Efficiency of agricultural marketing and the measures to		10
. ,	21	improve the efficiency of agricultural marketing in India	4	10
	22	Measurement of marketable and marketed surplus	2	
		Open Ended (Arrange any two activities)	12	
		Student led seminar on green revolution and ever green	14	
	1	revolution		
	2			
	3	Discussion on rural unemployment and rural indebtedness Assignment on land reforms and its impact on agriculture		
V	3			
	1	Critically evaluate the role of WTO in Indian agriculture by		
	4	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		

Note: The course is divided into five modules, with four modules together having total 22 fixed units and one open-ended module with a variable number of units. There are total 48 instructional hours for the fixed modules and 12 hours for the open-ended one. Internal assessments (30 marks) are split

between the open-ended module (10 marks) and the fixed modules (20 marks). The final exam, however, covers only the 22 units from the fixed modules. The 70 marks shown in the last column, distributed over the first four modules, are only for the external examination.

REFERENCE:

- Soni R N (2013), Leading Issues in Agricultural Economics, 10th Edition, Vishal publishing co. Jalandhar. (Module 1,2,3,4&5)
- Gupta P K (2018), Agricultural Economics, 2ND 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, 2nd 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, 32ND Edition, New Age International (p) Ltd. New Delhi.

	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6	PSO7	PSO8	PSO9
CO 1	3	1	-	-	-	-	-		
CO 2	1	3	-	1	-	-	1		
CO 3	1	2	-	3	-	-	-		
CO 4	1	3	1	2	-	-	-		
CO 5	1	2	-	3	-	-	3		

MAPPING OF COS WITH PSOS:

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	\checkmark	\checkmark		\checkmark
CO 2	\checkmark	\checkmark	\checkmark	\checkmark
CO 3	\checkmark	\checkmark		\checkmark
CO 4	\checkmark	\checkmark	\checkmark	\checkmark
CO 5		\checkmark	\checkmark	

Programme	B.A. Economics with Foreign Trade							
Course Title	INDIAN FINANCIAL MARKET							
Type of Course	Elective	Elective						
Semester	VI	VI						
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	Basic Economics Co	urse of 200	- 299 level					
Course	This course delves							
Summary	markets, providing	students wit	h a compre	hensive unde	erstanding of			
	fundamental concep	ts, financial	linstruments	s, market str	ructures, and			
	services.							

СО	CO Statement	Cognitive Level*	Knowledge Category#	Evaluation Tools used		
CO1	Understand the basic concepts of financial markets, financial instruments, and financial services.	U	С	Instructor- created exams / Quiz		
CO2	Analyze theories of market efficiency, investment strategies, and risk management.	An	Р	Practical Assignment		
CO3	Evaluate the impact of market regulations, financial intermediaries, and technological advancements on financial markets.	E	F	Seminar Presentation / Group Discussion		
CO4	Apply financial theories and concepts to analyze market trends, make investment decisions, and manage financial risks.	Ap	Р	Instructor- created exams / Home Assignments		
CO5	Foster critical thinking on financial market reforms, corporate governance, and ethical considerations in finance.	Ар	F	Viva Voce		
# - Fact	* - 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	
		An Introduction to Indian Financial System	10		
	1	Financial System- definitions- functions	1		
	2	Key elements of well-functioning financial system	2		
	3	Formal and Informal financial sectors in India - Structures	2		
Ι	4	Components of Formal Financial Sector in India -	1	12	
	5	Financial Institutions-	1		
	6	Financial Markets	1		
	7	Financial Instruments - Financial services	1		
	8	Components of Informal financial sector in India	1		
		Indian Financial System - An Overview	15		
	9	Phase I - Pre 1951 Organisation	2		
	10	Phase II - 1951 to mid-eighties	3		
II	11	Phase III - Post Nineties	2	24	
	12	Economic Reforms	2		
	13	Financial Sector Reforms	3		
	14	Committees and Recommendations	3		
		Money Market in India	15		
	15	Money Market - Definition- Functions	1		
	16	Role of Reserve Bank of India-	2		
	17	Steps to develop Money Market in India	1		
ш	18	Money Market Instruments - T-Bills, Commercial Papers, Commercial Bills, Certificates of Deposits-Call/Short Notice Money- Collaterised Borrowing and Lending Obligation (CBLO)	5	24	
	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	6		
		Capital Market in India	8		
	20	Capital Market - Definition- Functions - Components - Capital Market Instruments - History of Indian Capital Market - Reforms in Indian Capital Market	3	10	
IV	21 Me	Primary Market and Secondary Market - Instruments, Methods of raising capital, Role of Stock Exchanges - BSE and NSE, Trading Mechanism in Stock Exchanges	3	10	
	22	Derivative Market – Instruments	2		
V		Open Ended Module	12		
*		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		

Note: The course is divided into five modules, with four modules together having total 22 fixed units and one open-ended module with a variable number of units. There are total 48 instructional hours for the fixed modules and 12 hours for the open-ended one. Internal assessments (30 marks) are split between the open-ended module (10 marks) and the fixed modules (20 marks). The final exam, however, covers only the 22 units from the fixed modules. The 70 marks shown in the last column, distributed over the first four modules, are only for the external examination.

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	PSO7	PSO 8	PSO 9
CO 1	3	-	-	-	-	-	-	-	-
CO 2	3	3	-	2	1	-	2	-	-
CO 3	-	3	-	2	-	-	-	-	-
CO 4	-	3	1	2	-	-	3	3	-
CO 5	-	3	-	2	-	-	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	\checkmark	\checkmark		\checkmark
CO 2	\checkmark	\checkmark	\checkmark	\checkmark
CO 3	\checkmark	\checkmark	\checkmark	\checkmark
CO 4	\checkmark	\checkmark	\checkmark	\checkmark
CO 5	\checkmark	\checkmark	\checkmark	

Programme	B.A. Economics with	h Foreign Tr	ade					
Course Title	DEMOGRAPHY	DEMOGRAPHY						
Type of Course	Elective							
Semester	VI							
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) level		•			
Course Summary	The course covers the dynamics of population growth, theoretical aspects							
	of population, demographic data sources, empirical and policy							
	implications of demo	ographic issu	les in a deve	loping countr	y like India.			

СО	CO Statement	Cognitive	Knowledge	Evaluation Tools				
co	eo statement	Level*	Category#	used				
CO1	Understand the basic concepts, theories, policies and data sources of demography	U	С	Instructor-created exams / Quiz				
CO2	Analyse the population dynamics with respect to fertility, mortality, nuptiality, migration and urbanisation	An	р	Instructor-created exams/ Practical Assignment /				
CO3	Examine the age and sex composition of population in developed and less developed countries	Е	С	Instructor-created exams/ Seminar Presentation / Observation of Practical Skills				
CO4	Evaluate the effectiveness of India's current population policy in addressing the country's demographic challenges.	Е	С	Instructor-created exams / Group Discussion Home Assignments/				
CO5	Equip the students with practical skills needed to interpret contemporary demographic issues and to frame suitable demographic policies	С	Р	Writing assignments/Group Discussion/ Viva Voce				
	* - Remember (R), Understand (U), Apply (Ap), Analyse (An), Evaluate (E), Create (C) # - Factual Knowledge(F) Conceptual Knowledge (C) Procedural Knowledge (P)							
	cognitive Knowledge (M)							

Module	Unit	Content	Hrs	Marks
		Introduction to Demography	12	
	1	Nature and scope of population studies, population studies and Demography	1	
	2	Interrelation between Population studies and other Disciplines	1	
Ι	3	Development of population studies	2	17
1	4	Theories of Population - Malthusian Theory, Optimum theory of population and theory of demographic transition	4	17
	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	
		Population Dynamics	16	
	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	
II	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	23
	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	
		Age and Sex Composition of population	10	
	13	Age pyramids: types, concepts of stationary, stable and quasi - stationary population	2	
III	14	Patterns of sex and age structure in developed and developing countries	2	15
	15	Age and sex structure in India	2	
	16	Benefits and issues associated with Demographic dividend	2	
	17	Ageing of population	2	
IV		Population policy in India	10	15
T A	18	History of Family planning in India	2	10

	19	family planning methods and achievements		
	20	The child survival and safe motherhood (CSSM) Programme	2	
	21	Reproductive and child health programme (RCH	1	
	22	National Population Policy 2000	2	
		Open Ended Module	12	
	1	construct and interpret life tables based upon the latest population data		
V	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.		

Note: The course is divided into five modules, with four modules together having total 22 fixed units and one open-ended module with a variable number of units. There are total 48 instructional hours for the fixed modules and 12 hours for the open-ended one. Internal assessments (30 marks) are split between the open-ended module (10 marks) and the fixed modules (20 marks). The final exam, however, covers only the 22 units from the fixed modules. The 70 marks shown in the last column, distributed over the first four modules, is only for the external examination.

REFERENCE:

- 1. Asha A. Bhende & Tara Kanitkar (2019). Principles of Population Studies. Nineteenth Edition, Himalaya Publishing house, Mumbai (Module 1 ,2, 3 &4)
- 2. S. N. Agarwala (1997) India's Population Problems. Second Edition McGraw-Hill Publishing company 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	PSO7	PSO8	PSO9
CO 1	3	-	-	-	-	-	-	-	-
CO 2	-	2	-	3	2	-	2	-	-
CO 3	-	2	-	3	-	-	2	-	-
CO 4	-	1	-	2	-	-	3	3	-
CO 5	-	3	-	2	-	-	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	\checkmark	\checkmark		\checkmark
CO 2	\checkmark	\checkmark	\checkmark	\checkmark
CO 3	\checkmark	\checkmark	\checkmark	\checkmark
CO 4	\checkmark	\checkmark		\checkmark
CO 5		\checkmark	\checkmark	

Programme	B.A. Economics with	B.A. Economics with Foreign Trade				
Course Title	BASIC METHODS	FOR ECO	NOMIC RE	SEARCH		
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 level					
Course Summary	This course seeks basic information about research and its ideas,					
	literature, formation,	analysis, in	terpretation,	and presentat	tion.	

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	Р	Practical Assignment		
CO3	To apply scientific Methods in research.	Ар	F	Seminar Presentation / Group Discussion		
CO4	To analyse and interpret data with appropriate tools	Ар	С	Instructor- created exams / Home Assignments		
CO5Create new research tools, concepts, and theories and apply to present world situation.EMViva						
* - 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
		Fundamentals of Research	11	
	1	Research- Meaning, Objectives, Importance, characteristics of good research	1	
	2	The relation between theory and research	1	
	3	Research methods v/s Methodology	1	15
I	4	Types of research– Descriptive v/s Analytical, Applied v/s Fundamental, Quantitative v/s Qualitative, Conceptual v/s Empirical	4	
	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	
		Research Design	13	
	9	Research Formulation – Identifying, defining and formulating the research problem	2	
	10	Importance of literature review in defining a problem - Identifying research gap - Development of working hypothesis	4	
II	11	Research design – Basic Principles- Need of research design — Features of good research design – Components of Research Design	3	20
	12	Methods of Research Design- Exploratory, diagnostic and experimental studies- Deductive and inductive method- Static and dynamic method- Historical and dialectical method- Case study method	3	
	13	Interdisciplinary research.	1	
		Sources and Collection of Data	9	
	14	Execution of the research - Observation and Collection of data	1	
ш	15	Methods of data collection – Primary data and Secondary data	1	13
	16	Primary Data - Meaning, sources, merits and demerits, collection of Data - survey method, observation method, Interview method, questionnaires, schedules	5	13
	17	Secondary data – Meaning, sources, merits and demerits	1	
	18	Concepts of Universe, Population and sample.	1	
		Analysis of Data and Presentation	15	
	19	Data preparation and preliminary analysis - editing, coding, data entry, exploring, displaying.	5	
IV	20	Examining data - frequency tables, bar charts, pie charts, histograms, use of percentages	4	22
	21	Reporting and report writing	1	
	22	Components – prefatory items, introduction, methodology, findings, conclusions, appendices,	5	

		bibliography, referencing and footnotes.		
		Open Ended Module	12	
V	1	Application of statistical tools in economic research		
v	2	Develop and present a comprehensive economic research paper.		

Note: The course is divided into five modules, with four modules together having total 22 fixed units and one open-ended module with a variable number of units. There are total 48 instructional hours for the fixed modules and 12 hours for the open-ended one. Internal assessments (30 marks) are split between the open-ended module (10 marks) and the fixed modules (20 marks). The final exam, however, covers only the 22 units from the fixed modules. The 70 marks shown in the last column, distributed over the first four modules, are only for the external examination.

REFERENCE:

1. C.R. Kothari, Research Methodology – Methods and Techniques (Second revised edition), New Age International Publishers 2010.

ADDITIONAL READINGS:

- 1. Bryman A. (2012). Social Research Methods, Oxford University Press
- 2. Bernard R. (2013). Social Research Methods: Qualitative and Quantitative Approaches, Sage
- 3. Garg, B.L., Karadia, R., Agarwal, F. and Agarwal, U.K., 2002. An introduction to Research Methodology, RBSA Publishers.
- 4. Neumann, W. L. (2007). Basics of Social Research: Qualitative and Quantitative Approaches. Boston, MA: Pearson Education.
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- 6. Trochim, W.M.K., 2005. Research Methods: the concise knowledge base, Atomic Dog Publishing.
- 7. Wadehra, B.L. 2000. Law relating to patents, trademarks, copyright designs and geographical indications. Universal Law Publishing.
- 8. Anthony, M., Graziano, A.M. and Raulin, M.L., 2009. Research Methods: A Process of Inquiry, Allyn and Bacon.
- 9. Coley, S.M. and Scheinberg, C. A., 1990, "Proposal Writing", Sage Publications.
- 10. Day, R.A., 1992. How to Write and Publish a Scientific Paper, Cambridge University Press.
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- 12. Adler, E. S. And Clark, R. (2011). An Invitation to Social Research. Belmont, CA:
- 13. Cengage Learning
- 14. Babbie, E. (2008). Basics of Social Research. Belmont, CA: Thomson Learning. Ch 1-Human Inquiry and Science (pp. 3-31).

MAPPING OF COS WITH PSOS:

	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6	PSO7	PSO8	PSO9
CO 1	3	-	-	-	-	-	-	-	-
CO 2	-	3	-	2	-	-	2	3	3
CO 3		2	-	2	-		-	2	3
CO 4	-	3	2	3	-	2	3	3	-
CO 5	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	\checkmark	\checkmark		\checkmark
CO 2	\checkmark	\checkmark	\checkmark	\checkmark
CO 3	\checkmark	\checkmark	\checkmark	\checkmark
CO 4	\checkmark	\checkmark	\checkmark	\checkmark
CO 5	\checkmark	\checkmark	\checkmark	

Programme	B.A. Economics w	ith Foreign 7	Frade		
Course Title	ECONOMIC GE	OGRAPHY			
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 – 29	9 level		
Course Summary	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	To remember the knowledge to 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	Discuss and 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	Ар	С	Instructor- created exams / Home Assignments			
CO6	Discuss policy options for overcoming						
# - Factu	 * - 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
		Space and Economy: Some facts	8	
I	1	Spatial Inequalities: A Brief Historical Overview	3	
	2	The Space-Economy and the Industrial Revolution	2	12
	3	Regional Disparities: When an Ancient Phenomenon Becomes Measurable	3	
		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	
II	8	Recent trends and approaches in economic geography.	2	31
	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	
		Economic Activity and Space	6	
	14	Location of Economic Activity-Agricultural Location theory of Von Thunen.	2	
III	15	Location of Secondary Activity- Industrial Location Theory of A.Weber and E. Hoover	2	9
	16	Location of Tertiary Activity-Contribution of Walter Christaller and August Losch.	2	
		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	
IV	19	Baldwin-Forslid Model	2	18
·	20	Venables Model	2	-
	21	Helpman-Krugman Model	2	
	22	Melitz Model	2	
_		Open Ended Module	12	
V		Investigate and analyse economic disparities between two regions using various indicators		

Note: The course is divided into five modules, with four modules together having total 22 fixed units and one open-ended module with a variable number of units. There are total 48 instructional hours for the fixed modules and 12 hours for the open-ended one. Internal assessments (30 marks) are split between the open-ended module (10 marks) and the fixed modules (20 marks). The final exam, however, covers only the 22 units from the fixed modules. The 70 marks shown in the last column, distributed over the first four modules, are only for the external examination.

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].
- 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].
- 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.
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- 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.
- 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.
- 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

	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6	PSO7	PSO8	PSO9
CO 1	3	-	-	-	-	-	-	-	-
CO 2	-	3	-	2	-	-	2	3	3
CO 3		2	-	2	-		-	2	3
CO 4	-	3	2	3	-	2	3	3	-
CO 5	3	-	-	-	-	2	2	_	3

MAPPING OF COS WITH PSOS:

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	\checkmark	\checkmark		\checkmark
CO 2	\checkmark	\checkmark	\checkmark	\checkmark
CO 3	\checkmark	\checkmark	\checkmark	\checkmark
CO 4	\checkmark	\checkmark	\checkmark	\checkmark
CO 5	\checkmark	\checkmark	\checkmark	

Programme	B.A. Economics with	B.A. Economics with Foreign Trade						
Course Title	FOREIGN EXCHANGE MANAGEMENT							
Type of Course	Elective	Elective						
Semester	VI	VI						
Academic Level	300-399							
Course Details	Credit	Lecture	Tutorial	Practical	Total			
	Clean	per week	per week	per week	Hours			
	4	4	-	-	60			
Pre-requisites	Economics Courses	of 200 – 299	9 level					
Course	This course help st	udents to u	nderstand ho	ow the foreig	gn exchange			
Summary	markets operate, dif	markets operate, different exchange systems that exist, analyse global						
	currency dynamics a	nd strategies	for managin	g foreign exc	hange risks.			

СО	CO Statement	Cognitive Level*	Knowledge Category#	Evaluation Tools used				
CO1	Give a specialized knowledge on basic concepts of Foreign exchange	U	С	Instructor- created exams / Quiz				
CO2	Examine the features and characteristics of foreign exchange market.	U	С	Practical Assignment / Observation of Practical Skills				
CO3	Understand exchange rate fluctuation and exchange rate determination	U	Р	Seminar Presentation / Group Discussion				
CO4	Analyse exchange control measures, polices and regulations	An	Р	Instructor- created exams / Home Assignments				
CO5	Understand the foreign exchange risks and its management.	U	F	Writing assignments				
CO6Create an understanding of foreign exchange Management in IndiaCMV								
# - F	 * - Remember (R), Understand (U), Analyse (An), Analyse (An), Create (C) # - Factual Knowledge(F) Conceptual Knowledge (C) Procedural Knowledge (P) Metacognitive Knowledge (M) 							

Module	Unit	Content	Hrs	Marks
		Foreign Exchange Markets	13	
	1	Foreign exchange: meaning and significance	2	
	2	Foreign exchange market : meaning and functions	2	
I	3	Participants of foreign exchange market	2	20
	4	Transactions in foreign exchange market	3	
	5	Foreign exchange management: meaning and importance	2	
	6	Scope of Foreign exchange management	2	
		Exchange Rate	20	
	5	Exchange rate- concept	2	
	6	Determination of equilibrium exchange rate	2	
	7	Exchange rate changes	2	
	8	Determinants of exchange rate	2	
	9	Exchange rate regimes –Fixed exchange rate,	2	
II	10	Flexible exchange rate	2	20
	11	Hybrid exchange rate	2	
	12	Theories of exchange rate determination-Purchasing power	2	
		parity theory	2	
	13	Theories of exchange rate determination - Mint Parity theory	2	
	14	Theories of exchange rate determination- Balance of payment	2	
		theory	Z	
		Foreign Exchange Control and its Impact	7	
	15	Exchange control measures: Need and Forms	2	
III	16	Foreign exchange reserves in India	2	15
	17	Monetary and fiscal policy initiatives for exchange rate	3	
		management in India	3	
		Foreign Exchange Risks	8	
	18	Definition of Foreign exchange risks	2	
IV	19	Types of exchange rate risk- transaction risk, translation risk,	3	15
		economic risk		
	20	Management of exchange rate risks	3	
		Real World and Barriers to International Trade	12	
		Discussion on foreign exchange management in India		
V		Assignments on forward contracts		
		Seminar on the effect of trade barriers and exchange rates on		
		trade and economy		

Note: The course is divided into five modules, with four modules together having total 22 fixed units and one open-ended module with a variable number of units. There are total 48 instructional hours for the fixed modules and 12 hours for the open-ended one. Internal assessments (30 marks) are split between the open-ended module (10 marks) and the fixed modules (20 marks). The final exam, however, covers only the 22 units from the fixed modules. The 70 marks shown in the last column, distributed over the first four modules, are only for the external examination.

REFERENCE:

- 1. Shapiro C. Alan Multinational Financial Management-Wiley India Pvt. Ltd.
- 2. Maurice D. Levi International Finance Routledge.
- 3. K. S. Sharma- Institutional Structures of Capital Markets in India-Writers and Publishers, Corp.; sole distributors: Sterling Publishers, Delhi.
- 4. Rodriguez & Carter. International Financial Management-Prentice Hall
- 5. Keith Pilbeam. International Finance Palgrave Macmillan.
- 6. V.A.Avadhani. Marketing of Financial Services and Market-Himalaya Publishing House.
- 7. V.A.Avadhani- International Financial Management- Himalaya Publishing House.
- 8. P G Apte International Financial Management -Tata McGraw Hill Publishing Company Ltd.
- 9. Vyuptakesh Sharan International Financial Management-Prentice Hall India.
- 10. Jeff Madura International Financial Management- Cengage Learning India Pvt. Ltd., New Delhi.

ADDITIONAL READINGS

- 1. Kevin S-Fundamentals of International Financial Management-Prentice Hall India.
- 2. Dun and Broadstreet- Foreign exchange Markets- Tata McGraw Hill Publishing Company Ltd.
- 3. Bekartgeert and drick J. Robert-International financial Managemen- PHI Learning Pvt. Ltd., New Delhi.
- 4. Rajwade A.V.-Cash & Derivatives markets in foreign exchange-Tata McGraw Hill education Pvt. Ltd., New Delhi.
- 5. Eiteman K. David et al- Multinational Business finance-Dorling Kindersley India Pvt. Ltd., New Delhi.
- 6. Eun School and Resnick Bruce-International Financial Management- Tata McGraw hill publishing company Ltd., New Delhi.
- 7. Francis Cherunmilam International Business- Prentice Hall India

	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6	PSO7	PSO8	PSO9
CO 1	3	1	-	-	-	-	1	2	-
CO 2	1	-	-	-	-	-	1	2	-
CO 3	1	-	-	-	-		-	2	-
CO 4	1	-		-		-	2	3	-
CO 5	2	-	-	-	-	-	1	3	-
CO 6	-	-	3	-	-	-	3	3	-

MAPPING OF COS WITH PSOS:

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	\checkmark	\checkmark		\checkmark
CO 2	\checkmark	\checkmark		\checkmark
CO 3	\checkmark	\checkmark		\checkmark
CO 4	\checkmark	\checkmark		\checkmark
CO 5			\checkmark	
CO 6			\checkmark	

Programme	B.A. Economics with Foreign Trade							
Course Title	COMPUTER APPL	COMPUTER APPLICATIONS IN FOREIGN TRADE.						
Type of Course	Elective							
Semester	VI							
Academic Level	300-399							
Course Details	Credit	Lecture per week	Tutorial per week	Practical per week	Total Hours			
	4	4	-	-	60			
Pre-requisites	Economics Courses	Economics Courses of 200 – 299 level						
Course Summary	This course designed to provide some basic computer skills that is useful in the field of foreign trade							

СО	CO Statement	Cognitive Level*	Knowledge Category#	Evaluation Tools used
CO1	Develop basic idea about computer	С	М	Instructor- created exams / Quiz
CO2	Develop proficiency in using basic computer applications like Word Processer and Spread sheet.	С	М	Practical Assignment / Observation of Practical Skills
CO3	Develop skills in using spreadsheet for analysing trade statistics	С	М	Seminar Presentation / Group Discussion
CO4	Analyse the role of computer and internet applications in e- commerce platforms	An	Р	Instructor- created exams / Home Assignments
CO5	Understand the use of computer applications in international trade documentation	U	F	Writing assignments
CO6	Develop awareness about cyber security considerations in foreign trade	С	М	Viva Voce
	erstand (U), Analyse (An), Create (C) tual Knowledge(F) Procedural Knowledg	e (P) Metacog	gnitive Knowled	lge (M)

Module	Unit	Content	Hrs	Marks	
		9			
I	1	Basic understanding of computer Hardware and Software	3		
	2	Introduction to common operating systems	2	15	
	3	Introduction to programming languages	2		
	4	File management	2		
		10			
	5	Using word processing software(MS word, Google Docs)	2		
II	6	Document creation, editing, formatting and saving.	3	15	
11	7	Inserting -a table, graph, image and video, header, footer and page number, equations.	3	15	
	8	Use of Word Processer in foreign trade	2		
		Spreadsheet	15		
	9	Introduction to excel(MS Excel, Google Sheets)	2		
	10	Basic data entry and formatting skills	2		
	11	Introduction to basic excel formulas	2	20	
III	12	Basic data visualization using charts and graphs.	3	20	
	13	Use of excel in foreign trade and financial management	2		
	14	Creating simple tables for documenting trade transactions	2		
	15	Basic tracking of shipments and inventory using Excel	2		
	E-con	nmerce and Online Platforms in Foreign Trade	14		
	16	Introduction to E-commerce-Basic understanding of E- Commerce and its role in trade- Introduction to popular E- commerce platforms.			
	17	Online Marketplaces importance and impact	2		
IV	18	Cyber security in international trade- Awareness of online security threats-	2	20	
	19	Basic cyber security practices in e-commerce	2		
	20	Digitalization of trade documents	2		
	21	Understanding about block chain and its application&	2		
	22	Emerging technologies in foreign trade like AI and machine learning	1		
		Case Studies and Practical Applications	12		
V		Discussion Cyber security awareness Digital transformation in international trade			
		Impact of emerging technologies in trade			

	Practical Assignments -Application of learned skill to a real project - Software's used in foreign trade	
	Seminar on considerations of ethical and social aspects related to technology in international trade Practical applications of AI in foreign trade	

Note: The course is divided into five modules, with four modules together having total 22 fixed units and one open-ended module with a variable number of units. There are total 48 instructional hours for the fixed modules and 12 hours for the open-ended one. Internal assessments (30 marks) are split between the open-ended module (10 marks) and the fixed modules (20 marks). The final exam, however, covers only the 22 units from the fixed modules. The 70 marks shown in the last column, distributed over the first four modules, are only for the external examination.

REFERENCES

- 1. Computer Fundamentals" by P.K. Sinha:
- 2. "Information Technology for Management" by Henry C. Lucas Jr. and S. K. Bhatia:
- 3. Computer Applications in Management" by P. K. Yajnik:
- 4. "Computer Fundamentals and Applications" by Dr. Anita Goel and Dr. S. K. Srivastava:
- 5. "Computer Fundamentals" by B. Ram:
- 6. Introduction to Computers and C Programming" by S. K. Bajpai and P. B. Kotur:

ADDITIONAL READINGS

- 1. "Information Technology for Management: Advancing Sustainable, Profitable Business Growth" by Efraim Turban, Linda Volonino, and Gregory R. Wood:
- 2. International Business: Environments and Operations" by John D. Daniels, Lee H. Radebaugh, and Daniel P. Sullivan:

	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6	PSO7	PSO8	PSO9
CO 1	3	-	-	-	-	-	-	2	-
CO 2	-	-	-	3	-	3	-	2	-
CO 3	-	-	-	3	-	3	-	3	-
CO 4	-	-	2	3	-	-	3	2	-
CO 5	-	-	-	2	-	-	-	3	-
CO 6	-	2	-	_	-	-	-	3	-

MAPPING OF COS WITH PSOS:

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	\checkmark		\checkmark	\checkmark
CO 2	\checkmark		\checkmark	\checkmark
CO 3	\checkmark		\checkmark	\checkmark
CO 4	\checkmark		\checkmark	\checkmark
CO 5	\checkmark		\checkmark	\checkmark
CO 6		\checkmark		

Programme	B.A. Econ	B.A. Economics with Foreign Trade							
Course Title	SOCIAL	SOCIAL CHOICE THEORY							
Type of Course	Elective	Elective							
Semester	VIII	VIII							
Academic Level	400 - 499								
Course Details	Credit	Lecture per week	Tutorial per week	Practical per week	Total Hours				
	4	4	-	-	60				
Pre-requisites	Course or	Microecond	mics and Ma	croeconomics	s of level 300 – 399				
Course Summary	This course is intended to introduce various topics in social choice theory, which is a formal analysis of general preference aggregation and voting rules.								

СО	CO Statement	Cognitive Level*	Knowledge Category#	Evaluation Tools used				
C01	To understand the historical background and development of social choice theory.	U	F	Discussion / Debates				
CO2	To discuss and develop the concepts in social choice theory.	Ар	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.	Ар	С	Instructor- created exams / Home Assignments				
CO6	Empirical analysis of social choice theory in political decision-making processes.	Е	М	Project				
# - Factu	 * - 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
		Elements of Social Choice Theory	9	
I	1	Historical Background and development of social choice theory.	3	13
	2	A special case with two alternatives- Simple Majority.	2	15
	3	May's Theorem	2	
	4	Condorcet winner criterion	2	
		General Difficulties of Preference Aggregation	20	
	5	Binary relations	2	
	6	Preference Aggregation rule	2	
	6	Arrow's Theorem	2	
	7	Possibilities of preference aggregation	2	
II	8	The liberal paradox	2	29
	9	The Gibbard-Satterthwaite theorem	2	
	10	The aggregation of welfare measures or qualitative	2	
	11	Sen's extension of Arrow's framework	2	
	12	The aggregation of judgments	2	
	13	The paradoxes of judgment aggregation	2	
		Voting Rules	10	
	14	Majoritarian methods- Sequential majority	2	
Ш	15	Copeland voting rule	2	15
111	16	Positional Methods- Plurality	2	15
	17	Approval Voting	2	
	18	Borda Score Voting rule	2	
		Liberal Paradox	9	
	19	Sen's Libral Paradox	3	
IV	20	Gibbard's modification	2	13
	21	Escape routes	2	
	22	Game Forms and Liberal Paradox.	2	
		Open ended module	12	
	1	Social choice in political contexts: Parliamentary systems		
\mathbf{V}		Economic implications of voting rules in legislatures		
	2	Empirical analysis of political decision-making processes		

Note: The course is divided into five modules, with four modules together having total 22 fixed units and one open-ended module with a variable number of units. There are total 48 instructional hours for the fixed modules and 12 hours for the open-ended one. Internal assessments (30 marks) are split between the open-ended module (10 marks) and the fixed modules (20 marks). The final exam, however, covers only the 22 units from the fixed modules. The 70 marks shown in the last column, distributed over the first four modules, are only for the external examination.

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 IndividualValues, 2nd ed., Wiley.
- 2. K. Suzumura (1983), *Rational Choice, Collective Decisions and social Welfare*, Cambridge UniversityPress.
- 3. Wriglesworth (1985), Libertarian Conflicts in SocialChoice, Cambridge University Press.
- 4. M. Richter (1966), Revealed Preference Theory,

a. Econometrica.

5. M. Richter (1967), Rational Choice in Chipman et al. (ed)

a. Preference, Utility and Demand.

- 6. Prasanta K. Pattanaik (1994), Some non-welfaristic issues in Welfare Economics in Dutta (ed) *Welfare Economics*, OUP.
- 7. Gaertner, Pattanaik and Suzumura (1992), IndividualRights Revisited, Economica.
- 8. A. Gibbard (1974), A Pareto Consistent Libertarian Claim, a. Journal of Economic Theory.

	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6	PSO7	PSO8	PSO9
CO 1	3	-	-	-	-	-	-	-	-
CO 2	-	3	-	2	-	-	2	3	3
CO 3		2	-	2	-		-	2	3
CO 4	-	3	2	3	-	2	3	3	-
CO 5	3	-	-	-	-	2	2	-	3

MAPPING OF COS WITH PSOS:

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	\checkmark	\checkmark		\checkmark
CO 2	\checkmark	\checkmark	\checkmark	\checkmark
CO 3	\checkmark	\checkmark	\checkmark	\checkmark
CO 4	\checkmark	\checkmark	\checkmark	\checkmark
CO 5	\checkmark	\checkmark	\checkmark	

Programme	B.A. Economics with Foreign Trade					
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	
Pre-requisites	Economics Course o	f 200 – 299	level			
Course Summary	Students understand	the banking	and insuranc	e practices. Ai	nd at the end	
	of the Course student will be able to evaluate banking procedure and also					
	take up job in banks	and insuran	ce sector.			

СО	CO Statement	Cognitive Level*	Knowledge Category#	Evaluation Tools used			
CO1	Understand the concept of banking and insurance	U	С	Instructor-created exams / Quiz			
CO2	Analyze various banking services and insurance policies	Ap	Р	Practical Assignment / Observation of Practical Skills			
CO3	Evaluate different insurance and banking services	U	Р	Seminar Presentation / Group Discussion			
CO4	Apply the knowledge in day-to-day banking practices	Ap	С	Instructor-created exams / Home Assignments			
CO5	Understand the practical knowledge in banking services	U	F	Writing assignments			
CO6	Visiting websites to understand and prepare for the examinations for IPBS and IRDA's insurance agent						
# - Fa	 * - 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		
		Types of Banks	14			
	1	Banks- meaning and economic importance	2			
	2	types of banks- Central Bank- Commercial banks- Development Cooperative banks- Structure and functioning				
Ι	3	Development financial institutions (IFCI, IDBI, IIBI, SIDBI) - Specialized financial institutions (EXIM Bank-National Housin Bank-NABARD-MUDRA bank)	3	20		
	4	Specialized investment institutions (Pension funds- Hedge fund Mutual funds -UTI)-	2			
	5	Non Banking Financial Companies-Investment banks-Merchant banks.	5			
		Banking Services	10			
	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			
II	8	Digital payment system- E-banking-Virtual payments systems	1	15		
	9					
	10	Why is Customer Service Important, key areas of customer's services, Customer service strategies in banking sector				
	11	Customer feedback and complaints	1			
	11	Banking Sector Reforms in India	10			
	12	Banking sector reforms since 1991- Context, need and objectives-Implementations of the Narsimham Committee recommendations-	2			
	13	Issues in banking sector reforms-	1			
III	14	Priority sector lending-Asset classification	2	15		
	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			
		Insurance	14			
	18	Introduction to insurance: Purpose and need of insurance: Insurance as a social security tool	2			
	19	Insurance and economic development	2			
IV	20	Fundamental Principles of Insurance, Reinsurance	2	20		
	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			
		Open Ended Module	12			
V		Learn about the legal framework within which banks and insurance companies operate.				

Note: The course is divided into five modules, with four modules together having total 22 fixed units and one open-ended module with a variable number of units. There are total 48 instructional hours for the fixed modules and 12 hours for the open-ended one. Internal assessments (30 marks) are split between the open-ended module (10 marks) and the fixed modules (20 marks). The final exam, however, covers only the 22 units from the fixed modules. The 70 marks shown in the last column, distributed over the first four modules, are only for the external examination.

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 Institutions and Markets-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.

	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6	PSO7
CO 1	3	-	-	-	-	-	-
CO 2	-	3	-	1	-	-	2
CO 3	3	-	-	1	-	-	-
CO 4	-	3	1	2	-	-	3
CO 5	3	-	-	-	-	-	2
CO 6	-	2	2	3	3	-	3

MAPPING OF COS WITH PSOS:

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	\checkmark	\checkmark		\checkmark
CO 2	\checkmark		\checkmark	\checkmark
CO 3	\checkmark	\checkmark		\checkmark
CO 4	\checkmark	\checkmark		\checkmark
CO 5		\checkmark	\checkmark	
CO 6			\checkmark	

Programme	B.A. Economics with Foreign Trade						
Course Title	ECONOMICS OF	ECONOMICS OF EDUCATION					
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	Basic Economics C	Courses of 2	00 – 299 lev	el			
Course Summary	This course provides an overview of economics of education to lay out the evidence as clearly as possible, note agreements, disagreements, and unresolved points in literature, and to help students develop the tools necessary to draw their own conclusions.						

CO	CO Statement	Cognitive Level*	Knowledge Category#	Evaluation Tools used		
CO1	To explore the interrelationship between economics and education in the modern society	U	F	Instructor-created exams / Quiz		
CO2	To examine the demand, supply, costs and benefits of education within the purview of economic development	Ap	Р	Practical Assignment / Observation of Practical Skills		
CO3	To understand the economic imperative of manpower planning and human resource development for a country	U	Р	Seminar Presentation / Group Discussion		
CO4	To get an overview of the education scenario of both India and Kerala	Ap	Р	Instructor-created exams / Home Assignments		
 * - 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				
		Education, Economics and the Modern Society	10					
Ι	1	Education in the modern world	2					
	2	Socio-economic significance of education						
	3	Economists' perception of education	2	14				
	4 Education as a public/merit good							
	5	Economics of education: The subject matter, framework and	2					
	Ũ	significance						
		Education and Economic Development	12					
	6	Education as the prime mover of modern society	2					
	7	Education and economic growth	2					
II	8	Indicators of economic and educational development	2	18				
	9	Stages of economic and educational development	2					
	10	Demand for education and its major determinants	2					
	11	Supply of Education and its major determinants	2					
		Cost and Benefits of Education	12					
	12	Education as an investment – Private return and social return	2					
	13 Costs and benefits of education – Direct and indirect social benefits – Cost-benefit analysis of education		4	18				
III	14	14 Rate of return analysis						
	15	Input-output analysis	2 2					
	16	Wastage and stagnation in education	1					
	17	Educational budgets	1					
		Human Capital and Manpower Planning	14					
	18	Economic imperative of human capital	2					
	19	Human resource development – Process of human resource development – Indicators of human resource development –	5					
IV	20	Linking education with the economy	2	20				
	21	Educational planning	2					
	22	Manpower planning – Features and techniques of manpower planning and forecasting	3					
		Open Ended Module	12					
		Discussion based on the primary, secondary, higher secondary	14					
		and higher education scenario of India and Kerala						
V		Practical Assignments on Initiatives for educational						
		development						
		Seminar on the new education policy and its impacts on the						
		national and regional economy						

Note: The course is divided into five modules, with four modules together having total 22 fixed units and one open-ended module with a variable number of units. There are total 48 instructional hours for the fixed modules and 12 hours for the open-ended one. Internal assessments (30 marks) are split between the open-ended module (10 marks) and the fixed modules (20 marks). The final exam, however, covers only the 22 units from the fixed modules. The 70 marks shown in the last column, distributed over the first four modules, is only for the external examination.

REFERENCE:

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

ADDITIONAL READINGS

- 1. Lovenheim, M., & Turner, S. E. (2019). Economics of education. Worth.
- 2. Brewer, D. J., & McEwan, P. J. (2010). Economics of education. Elsevier.
- 3. Rao, D. P. (2010). Economics of Education and human development in India: Essays in Honour of Prof. K.S. Chalam.
- 4. Akinyemi, S. (2013). The economics of education. Strategic Book Publishing.
- 5. Bhat, F. A., & Gull, K. (2018). An Introductory Economics of Education.
- 6. Lok, J. (2022). Education How brings economic growth.

	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6	PSO7	PSO8	PSO9
CO 1	1	-	-	-	-	-	3	-	-
CO 2	-	1	-	-	-	-	2	3	-
CO 3	2	-	-	-	-	-	3	1	-
CO 4	-	-	-	1	2	-	-	3	-

MAPPING OF COS WITH PSOS:

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	\checkmark	\checkmark		\checkmark
CO 2	\checkmark		\checkmark	\checkmark
CO 3	\checkmark	\checkmark		\checkmark
CO 4	\checkmark	\checkmark		\checkmark

Programme	B.A. Econ	B.A. Economics with Foreign Trade					
Course Title	LAW AN	D ECONOM	IICS				
Type of Course	Elective						
Semester	VIII						
Academic Level	400 - 499	400 - 499					
Course Details	Credit	Lecture per week	Tutorial per week	Practical per week	Total Hours		
	4	4	-	-	60 ·		
Pre-requisites	Microecon	nomics course	e of 200 – 29	9 level			
Course Summary	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						

СО	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	С	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/Ca ses 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				
CO6	Demonstrate critical thinking and problem-solving skills by applying		Р	Viva Voce				
# - Factu	 * - 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
		An Introduction to Law and Economics	12	
	1	1		
	2	Why should Economists study law?	2	
	3	How to analyze legal and economic issues.	2	
Ι	4	The Primacy of efficiency over distribution in analyzing	2	18
	4	private law	Δ	
	5	Efficiency criteria – Pareto, Kaldor-Hicks	2	
	6	2		
	7	Markets and efficiency and Market failure	1	
		An Introduction to Law and Legal Institutions	6	
	8	The Civil law and the common law traditions.	1	
II	9	The institutions of Judicial systems in India –	1	10
11	10	Legal Principles, and the functioning of Legal system	2	10
	11	Economic Theory of Legal Process - Sue - Trial – Appeals -	2	
	11	Judiciary - Lawyers' Profession.	Δ	
		Theory of Property Right	15	
	12	The Nature and Function of Property Rights -	1	
	13	The origin of institution of property - The Legal Concept of	2	
		Property.	2	
	14	Enforcement of property rights - Bargaining Theory - An	4	
III		Economic Theory of Property –		21
	15	Property Rights and Coase Theorem	2	
	16	The Public Use of Private Property Eminent domain and Regulation of Property –	2	
	17	2		
		Applications.		
	18	An Introduction to Intellectual Property Rights (IPRs).	2	
		The Economics of Contract Law	15	
	19	An Introduction to Contracts	1	
	20	Complete and Incomplete Contracts - The Elements of	3	
IV		Valid and Invalid Contracts.		21
	21	Bargaining theory- Economic Theory of Contract.	6	
	22	Contracts and Efficient Exchange - Legal Remedies as	5	
		Incentives: Applications.		
		en Ended Module	12	
V		ous Case Studies in Economics Property Rights – Various		
	Case	e Studies in Economics of Contract		

Note: The course is divided into five modules, with four modules together having total 22 fixed units and one open-ended module with a variable number of units. There are total 48 instructional hours for the fixed modules and 12 hours for the open-ended one. Internal assessments (30 marks) are split between the open-ended module (10 marks) and the fixed modules (20 marks). The final exam, however, covers only the 22 units from the fixed modules. The 70 marks shown in the last column, distributed over the first four modules, are only for the external examination.

REFERENCE:

- 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:

- 1. Melvin Aron Eisenberg, The Nature of the Common Law (1989). Harvard University Press, Cambridge.
- 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.

	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6	PSO7	PSO8	PSO9
CO 1	3	-	-	-	-	-	-	-	-
CO 2	-	3	-	1	-	-	2	-	-
CO 3	3	-	-	1	-	-	-	-	-
CO 4	-	3	1	2	-	-	3	-	-
CO 5	3	-	-	-	-	-	2	-	-
CO 6	-	2	2	3	3	-	3	-	-

MAPPING OF COS WITH PSOS:

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/	Practical Assignment	End Semester Examination
CO 1	\checkmark	\checkmark		\checkmark
CO 2	\checkmark		\checkmark	\checkmark
CO 3	\checkmark	\checkmark		\checkmark
CO 4	\checkmark	\checkmark		\checkmark
CO 5		\checkmark	\checkmark	
CO 6			\checkmark	

Programme	B.A. Economics with Foreign Trade							
Course Title	LOCAL LEVEL PLANNING							
Type of Course	Elective							
Semester	VIII	VIII						
Academic Level	400 - 499							
Course Details	Credit Lecture Tutorial Practical Total							
	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 theories of local economic development.							

СО	CO Statement	Cognitive Level*	Knowledge Category#	Evaluation Tools used			
CO1	Understand various local government institutions	U	С	Instructor-created exams / Quiz			
CO2	Analyse the role of decentralization process	An	Р	Practical Assignment			
CO3	Evaluate various local development models	Ap	F	Seminar Presentation / Group Discussion			
CO4	Apply the theoretical knowledge to current project appraisal of various kinds	Ар	С	Instructor-created exams / Home Assignments			
CO5	CO5 Create complete understanding of the local U F Viva level planning						
* - 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 Panchayati Raj Institutions			
I	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 committee- Ashok Mehta Committee – G V K Rao Committee – L M Singhvi Committee	3	17	
	4	Features of Panchayati Raj Institutions	2		
	5	The 73 rd and 74 th Constitutional Amendments	2		
		The Process of Decentralization	9		
	6	Decentralized Planning in Kerala	2		
II	7	How Kerala is Different	1	14	
	8	History – Evolution – importance of People's plan movement	3		
	9	The role of Kudumbashree	3		
		The Concept of Project Appraisal	12		
	10	The role of Local Government Agencies (LGAs) in Project Appraisal Framework	2		
	11	Introduction to Project Evaluation	1		
III	12	Methods of Project Evaluation – Return on Investment (ROI) – Cost -Benefit analysis (CBA) – Net Present Value (NPV) – Internal Rate of Return (IRR) – The Payback Period – Risk Adjusted Discount Rate (RADR)	5	17	
	13	Steps to conduct a project evaluation	2		
	14	challenges in Project monitoring and evaluation	2		
		The Local and Regional Development	15		
	15	Introduction: Local and Regional Development	1		
	16	what kind of local and regional development and for whom?	2		
	17	Concepts and theories of local and regional development	2		
IV	18	Traditional model	2	22	
	19	Pure agglomeration Model	2		
	20	Local community model	2		
	21	Territorial innovation model	2		
	22	Sustainable Development Model	2		
V		Open Ended Module	12		
		Discussion 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			

Note: The course is divided into five modules, with four modules together having total 22 fixed units and one open-ended module with a variable number of units. There are total 48 instructional hours for the fixed modules and 12 hours for the open-ended one. Internal assessments (30 marks) are split between the open-ended module (10 marks) and the fixed modules (20 marks). The final exam, however, covers only the 22 units from the fixed modules. The 70 marks shown in the last column, distributed over the first four modules, is only for the external examination.

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 Publications 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)

	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6	PSO7	PSO8	PSO9
CO 1	3	-	-	-	-	-	-	-	-
CO 2	-	2	-	-	2	-	2	-	-
CO 3	3	-	-	1	-	-	-	-	-
CO 4	-	3	-	-	3	-	3	1	2
CO 5	3	-	1	-	-	-	2	-	-

MAPPING OF COS WITH PSOS:

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	\checkmark	\checkmark		\checkmark
CO 2	\checkmark		\checkmark	\checkmark
CO 3	\checkmark	\checkmark		\checkmark
CO 4	\checkmark	\checkmark		\checkmark
CO 5		\checkmark	\checkmark	

Programme	B.A. Economics with	B.A. Economics with Foreign Trade					
Course Title	FINANCE AND TECHNOLOGY						
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	Financial Economics course of 200 – 299 level						
Course Summary	This course introduces fundamental building blocks of financial						
	technologies and rea	l-world appl	ications.				

CO	CO Statement	Cognitive Level*	Knowledge Category#	Evaluation Tools used			
CO1	To familiarize the students with the Finance and technological sector	U	С	Instructor- created exams / Quiz			
CO2	It outlines how new technologies are transforming the financial services industry.	An	Р	Practical Assignment			
CO3	Examine 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.	Ар	F	Seminar Presentation / Group Discussion			
CO4	To explore how AI, machine learning, deep learning, blockchain, and open APIs are applied within the financial technology industry.	Ap	С	Instructor- created exams / Home Assignments			
CO5	To design and implement case study- oriented learning experiences for students, focusing on various sectors of financial technology.	E	М	Viva			
 * - 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	11	
	1	Finance and technology	1	
	2	Finance sector	2	
Ι	3	Innovation in Finance	1	15
	4	Disruption in Finance	4	
	5	Introduction to the Finance and technology's landscape	2	
	6	Application of Finance and technology	1	
		FinTech Architecture and FinTech Technologies	11	
	7	Overview of FinTech architecture.	2	
	8	Importance of Finance and Technological architecture	2	
	9	Features of Finance and Technological architecture	2	
II	10	Introduction to Block chain integration in FinTech	2	15
	11	Merits and Demerits of Block chain in Fin Tech	1	
	12	Introduction to Open Application Programming Interfaces	1	
	12	(APIs).	1	
	13	Exploring the applications of AI and ML in finance	1	
		India's Fintech Sector	11	
	14	Overview of various fintech sectors in India	1	
	15	The regulatory framework for fintech in India	1	
III	16	Regulatory compliance issues in the Indian fintech space	5	15
	17	Trends in FinTech and the Fintech landscape in India	2	
	18	Examining key players, institutions, innovations, and	2	
	10	challenges.		
		India's Fintech Sector - Case studies	15	
	19	Real Time Payments and Neo Banking	5	
IV	20	Wealth technology and Insurance technology	4	25
1,	21	Lending and Blockchain	1	20
	22	The impact of Fintech on the Financial Inclusion and broader	5	
		economy		
		Open Ended Module	12	
	1	To take up case studies with respect to the various sectors of		
V	-	Fintech in India		
	2	Describe the role of different technologies in the fintech		
	2	sector.		

Note: The course is divided into five modules, with four modules together having total 22 fixed units and one open-ended module with a variable number of units. There are total 48 instructional hours for the fixed modules and 12 hours for the open-ended one. Internal assessments (30 marks) are split between the open-ended module (10 marks) and the fixed modules (20 marks). The final exam, however, covers only the 22 units from the fixed modules. The 70 marks shown in the last column, distributed over the first four modules, are only for the external examination.

REFERENCE:

- 1. Phadke, Sanjay. 2023. Fintech Future: The Digital DNA of Finance Paperback 23 September.
- 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.
- 4. Gyorfi, L., Ottucsak, G., & Walk, H. (Eds.). (2012). Machine learning for financial engineering (Vol. 8). World Scientific.
- 5. Harvey, C. R., Ramachandran, A., & Santoro, J. (2021). DeFi and the Future of Finance. John Wiley & Sons.
- 6. Kube, N. (2018). Daniel Drescher: Blockchain basics: a non-technical introduction in 25 steps: Apress, 2017, 255 pp, ISBN: 978-1-4842-2603-2.
- 7. Moilanen, J., Niinioja, M., Seppänen, M., & Honkanen, M. (2019). API economy 101: changes your business. BoD-Books on Demand.
- 8. Realini, C., & Mehta, K. (2015). Financial Inclusion at the Bottom of the Pyramid. FriesenPress.
- 9. Sironi, P. (2016). FinTech innovation: from robo-advisors to goal based investing and gamification. John Wiley & Sons.
- 10. Cevik, S. (2024). Is Schumpeter Right? Fintech and Economic Growth.
- 11. Baporikar, N. (2021). Fintech challenges and outlook in India. In Innovative strategies for implementing FinTech in banking (pp. 136-153). IGI Global.
- 12. Chugh, B. (2019). Financial Regulation of Consumer-Facing Fintech in India: Status Quo and Emerging Concerns. Available at SSRN 3520473.
- 13. Kamuangu, P. K. (2024). Advancements of AI and Machine Learning in FinTech Industry (2016-2020).
- 14. Migozzi, J., Urban, M., & Wójcik, D. (2023). "You should do what India does": FinTech ecosystems in India reshaping the geography of finance. Geoforum, 103720.
- 15. Nelaturu, K., Du, H., & Le, D. P. (2022). A review of blockchain in fintech: taxonomy, challenges, and future directions. Cryptography, 6(2), 18.
- 16. Premchand, A., & Choudhry, A. (2018, February). Open banking & APIs for transformation in banking. In 2018 international conference on communication, computing and internet of things (IC3IoT) (pp. 25-29). IEEE.
- 17. Rajeswari, P., & Vijai, C. (2021). Fintech industry in India: the revolutionized finance sector. Eur. J. Mol. Clin. Med, 8(11), 4300-4306.
- Renduchintala, T., Alfauri, H., Yang, Z., Pietro, R. D., & Jain, R. (2022). A survey of blockchain applications in the fintech sector. Journal of Open Innovation: Technology, Market, and Complexity, 8(4), 185.
- 19. Rafay, A. (Ed.). (2019). FinTech as a Disruptive Technology for Financial Institutions. IGI Global.

ADDITIONAL READINGS:

- Inc42. 2023. State of Indian Fintech Report 2023. Available at <u>https://inc42.com/reports/state-of-indian-fintech-report-q1-2023/</u>
- 2. Mordor Intelligence. India Fintech report. Available at <u>https://www.mordorintelligence.com/industry-reports/india-fintech-market</u>
- 3. <u>https://www.ey.com/en_in/financial-services/how-is-the-fintech-sector-in-india-poised-forexponential-growth</u>
- 4. <u>https://www.pwc.in/industries/financial-services/fintech.html</u>
- 5. <u>https://rbsa.in/wp-content/uploads/reports/research-reports/RBSA-Advisors-PresentsFinTech-Industry-in-India-February2021.pdf</u>

MAPPING OF COS WITH PSOS:

	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6	PSO7	PSO8	PSO9
CO 1	3	-	-	-	-	-	-	-	-
CO 2	-	3	-	2	-	-	2	3	3
CO 3		2	-	2	-		-	2	3
CO 4	-	3	2	3	-	2	3	3	-
CO 5	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	\checkmark	\checkmark		\checkmark
CO 2	\checkmark	\checkmark	\checkmark	\checkmark
CO 3	\checkmark	\checkmark	\checkmark	\checkmark
CO 4	\checkmark	\checkmark	\checkmark	\checkmark
CO 5	\checkmark	\checkmark	\checkmark	

Minor Courses in Economics with Foreign Trade

Programme	B.A. Economics with Foreign Trade							
Course Title	FISCAL TOOLS F	FISCAL TOOLS FOR POLICY FORMULATION						
Type of Course	Minor							
Semester	Ι							
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 Co	ourse of 0 –	99 level					
Course Summary	This course explores important Concepts and Instruments of Fiscal							
	policy.		_					

СО	CO Statement	Cognitive Level*	Knowledge Category#	Evaluation Tools used		
CO1	Understand the Concept of Fiscal Policy	U	С	Instructor-created exams / Quiz		
CO2	Identify Different tools of Fiscal policy	R	F	Created exams / Quiz		
CO3	Develop comprehensive analysis of Public Expenditure and its Various theories.	An	Р	Seminar Presentation / Group Discussion		
CO4	Identify different Sources of Public revenue	R	F	Instructor-created exams / Home Assignments		
CO5	Compare Public debt and Private dept	Е	М	Writing assignments		
CO6	Classify different types of Public dept and budget	U	С	Viva Voce		
* - 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
	Fiscal	Policy and Instruments of Fiscal Policy	9	
	1	Meaning of Fiscal Policy-Traditional View, Modern view	1	
Ι		and Keynes' view on Fiscal Policy	1	13
	2	Objectives of Fiscal policy in developing economies	2	15
	3	Major fiscal functions	4]
	4	Instruments of Fiscal Policy	2	
	Public	c Expenditure	7	
	5	Meaning and types of Public Expenditure	2	
п	6	Role of Public Expenditure	1	11
11	7	Canons Of Public Expenditure	2	11
	8	Adolph Wagner Hypothesis, Peacock wiseman	2	
		Hypothesis		
	Public	c Revenue	16	
	9	Meaning and Sources of Public Revenue.	4	
	10	Concept of Proportional, Progressive, Regressive	2	
		Taxation		
III	11	Principles of Taxation	2	23
	12	requirements of a Good Tax System	2	
	13	Taxable Capacity	4	_
	14	Impact, incidence and Shifting of Taxation (Concepts	2	
		only)		
		c Debt & Budget	16	
	15	Meaning and Objectives of Public Dept	2	
	16	Importance of Public Debt	1	
	17	Difference between Public Debt and Private Dept	1	
IV	18	Classification of Public Debt	3	23
1 V	19	Burden of Public Debt	2	23
	20	Concept and Purpose of Budget	2	
	21	Classification of Budget	2	
	22	Performance and Programme Budgeting System (PPBS),		1
		Zero Based Budgeting	3	
	Open	ended module	12	
V		Recent trends in Kerala's expenditure and Public debt		
		recent actual in rectain 5 experientate and 1 done door		
R		1 I		

Note: The course is divided into five modules, with four modules together having total 22 fixed units and one open-ended module with a variable number of units. There are total 48 instructional hours for the fixed modules and 12 hours for the open-ended one. Internal assessments (30 marks) are split between the open-ended module (10 marks) and the fixed modules (20 marks). The final exam, however, covers only the 22 units from the fixed modules. The 70 marks shown in the last column, distributed over the first four modules, are only for the external examination.

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. (3rd 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 3rd Edition.
- 6. John Cullis&Philip Jones, Public Finance Public Choice, Analytical Perspectives, 3rd Edition.
- 7. Ambar Ghosh & Chandra Ghosh, Public Finance, 3rd Edition.
- 8. Rabindra Kr. Choudhury & Reema Choudhury Chakraborty, Public Finance and Fiscal Policy

	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6	PSO7	PSO8	PSO9
CO 1	3	-	-	-	-	-	-	-	-
CO 2	3	-	-	1	-	-	-	-	3
CO 3	3	-	-	-	-	-	2	3	1
CO 4	3	1	-	-	-	-	1	1	2
CO 5	1	-	-	-	-	-	3	2	-
CO 6	3	3	-	1	1	-	2	3	1

MAPPING OF COS WITH PSOS:

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	\checkmark	\checkmark		\checkmark
CO 2	\checkmark	\checkmark		\checkmark
CO 3	\checkmark	\checkmark		\checkmark
CO 4	\checkmark	\checkmark		\checkmark
CO 5	\checkmark	\checkmark		\checkmark
CO 6	\checkmark	\checkmark		\checkmark

Programme	B.A. Economi	B.A. Economics with Foreign Trade					
Course Title	FISCAL POL	FISCAL POLICY AND STABILIZATION					
Type of Course	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 Course of $0 - 99$ level						
Course Summary	This course explores basic approaches, determinants of Fiscal policy and their role for Economic Growth and Stability.						

СО	CO Statement	Cognitive Level*	Knowledge Category#	Evaluation Tools used
CO1	Understand different approaches of fiscal Policy	U	С	Instructor- created exams / Quiz
CO2	Analyze the role of fiscal policy for full employment	An	Р	Created Exams/ Quiz
CO3	Identify the various determinants of fiscal policy for maintaining Economic Growth and stability	R	F	Created Exams, Seminar Presentation / Group Discussion
CO4	Analyse the role of Multiplier in determination of Fiscal Policy.	An	р	Instructor- created exams / Home Assignments
CO5	Identify the Key issues in fiscal federalism	U	F	Created Exams, Group discussion.
CO6	Explain the role and functions of finance Commission.	An	М	Created exams, Viva Voce
# - Factu	ember (R), Understand (U), Apply al Knowledge(F) Conceptual Know nitive Knowledge (M),			

Module	Unit	Content	Hrs	Marks	
		Approaches of Fiscal Policy	11		
	1	Built In-Stabilisers or Automatic Stabiliser	3		
I	2	Compensatory Fiscal Policy	4	15	
	3	Functional Finance Approach	2		
	4	Anti-Inflationary Fiscal policy	2		
		Fiscal Policy for Full Employment	10		
	5	Role of Fiscal Policy for attaining full employment.	3		
II	6	Deficit Spending	2	14	
	7	Deficit without Spending	2		
	8	Balanced Budget Multiplier (Spending without Deficit).	3		
		Fiscal Policy for Economic Growth	8		
	9	Interdependence between Fiscal policy and Economic Growth	3		
III	10	Promotion of Investment	1	12	
	11	Promotion of saving	1		
	12	Role of Multiplier in Determination of Fiscal Policy	3		
		Fiscal Federalism	19		
	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	• •	
IV	17	Allocation of Revenue Resources between Centre and States Under the Constitution(Financial relations)	2	29	
	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		
		Open Ended Module	12		
V		Seminar Presentation of limitations of fiscal policy in UDCs			
		Assignments based on seminar Presentation			

Note: The course is divided into five modules, with four modules together having total 22 fixed units and one open-ended module with a variable number of units. There are total 48 instructional hours for the fixed modules and 12 hours for the open-ended one. Internal assessments (30 marks) are split between the open-ended module (10 marks) and the fixed modules (20 marks). The final exam, however, covers only the 22 units from the fixed modules. The 70 marks shown in the last column, distributed over the first four modules, are only for the external examination.

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 3rd Edition.
- 6. John Cullis&Philip Jones, Public Finance Public Choice, Analytical Perspectives, 3rd Edition.
- 7. Ambar Ghosh & Chandra Ghosh, Public Finance, 3rd Edition.
- 8. Rabindra Kr. Choudhury & Reema Choudhury Chakraborty, Public Finance and Fiscal Policy

	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6	PSO7	PSO8	PSO9
CO 1	3	-	-	-	-	-	-	2	-
CO 2	-	3	-	1	-	-	2	2	1
CO 3	3	-	-	-	-	-	-	3	1
CO 4	-	3	-	1	-	-	3	2	-
CO 5	3	3	-	1	-	-	_	3	2
CO 6	3	2	-	-	-	-	-	2	-

MAPPING OF COS WITH PSOS:

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	\checkmark	\checkmark		\checkmark
CO 2	\checkmark	\checkmark		\checkmark
CO 3	\checkmark	\checkmark		\checkmark
CO 4	\checkmark	\checkmark		\checkmark
CO 5	\checkmark	\checkmark		\checkmark
CO 6	\checkmark	\checkmark		\checkmark

Programme	B.A. Economics with	B.A. Economics with Foreign Trade					
Course Title	TAX POLICY IN I	NDIA					
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 purposes						
		in for policy	purposes				

СО	CO Statement	Cognitive Level*	Knowledge Category#	Evaluation Tools used			
CO1	Understand the basic nature of the Indian tax system	U	С	Instructor-created exams / Quiz			
CO2	Analyze the different tax strategies in the Indian Economy	An	Р	Practical Assignment			
CO3	Evaluate the efficiency of the Indian tax structure	Ap	F	Seminar Presentation / Group Discussion			
CO4	Apply the knowledge for tax computation	Ap	С	Instructor-created exams / Home Assignments			
CO5	Create basic skills for an						
* - Remember (R), Understand (U), Apply (Ap), Analyse (An), Evaluate (E), Create (C)							
# - Fact	# - Factual Knowledge(F) Conceptual Knowledge (C) Procedural Knowledge (P)						
Metaco	gnitive Knowledge (M)						

Module	Unit	Content	Hrs	Marks
		Introduction	10	
	1	History of Tax System in India	2	
Ι	2	Objectives of Indian Tax System	2	15
	3	Direct Taxes & Indirect Taxes	3	
	4	Union Taxes and State Taxes, Local Taxes	3	
		Direct Taxes in India	12	
	5	Income Tax Act 1961	2	
II	6	Computation Of Income Tax in India-	2	20
11	7	Recent Changes in Income Tax Calculation in India	2	20
	8	Corporate Tax	3	
	9	Capital Gain Tax	3	
		Indirect Taxes in India	12	
	10	Excise Duty	3	
	11	Service Tax	2	
III	12	Sales Tax	2	20
	13	Customs Duty	3	
	14	Value Added Tax	1	
	15	Issues Of Indirect Taxation System In India	1	
		Goods And Service Tax in India	14	
	16	GST – Definition and Concepts	2	
	17	Supply-Composite and Mixed	2	
IV	18	Concept Of Interstate and Intrastate	2	15
1 V	19	Exemptions From GST	3	15
	20	Advantages And Disadvantages of GST	2	
	21	GST Calculation - Basics	2	
	22	Fiscal Federalism and GST	1	
17		Open Ended Module	12	
V		Computation of Taxes- Income Tax, GST		

Note: The course is divided into five modules, with four modules together having total 22 fixed units and one open-ended module with a variable number of units. There are total 48 instructional hours for the fixed modules and 12 hours for the open-ended one. Internal assessments (30 marks) are split between the open-ended module (10 marks) and the fixed modules (20 marks). The final exam, however, covers only the 22 units from the fixed modules. The 70 marks shown in the last column, distributed over the first four modules, are only for the external examination.

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	PSO7
CO 1	3	-	-	-	2	-	-
CO 2	-	-	-	2	-	-	2
CO 3	-	-	-	2	-	-	2
CO 4	-	2	-	-	-	-	3
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	\checkmark	\checkmark		\checkmark
CO 2	\checkmark			\checkmark
CO 3	\checkmark	\checkmark		\checkmark
CO 4	\checkmark	\checkmark	\checkmark	\checkmark
CO 5	\checkmark	\checkmark	\checkmark	

Programme	B.A. Economics with Foreign Trade						
Course Title	MONETARY TOOLS FOR POLICY FORMULATION						
Type of Course	Minor	Minor					
Semester	Ι						
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 Co	ourse of $0 - 9$	99 level		•		
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				
CO1	Understand the concept of monetary policy	U	С	Instructor- created exams / Quiz				
CO2	Analyse the role of monetary authorities to stabilise the economy	Ар	Р	Practical Assignment / Observation of Practical Skills				
CO3	Evaluate various tools of monetary policy instruments	U	Р	Seminar Presentation / Group Discussion				
CO4	Apply the formulation of monetary policy.	Ap	С	Instructor- created exams / Home Assignments				
CO5 Create complete understanding of the current scenario within the framework of Monetary policy formulation U F Viva Voce								
# - Fa	 * - 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	14	
	1	Introduction to Monetary Policy – Meaning and definition of Monetary Policy	2	
	2	Objectives of Monetary Policy	2	
Ι	3	The transmission Mechanism- How Monetary policy influences Aggregate Demand	3	20
	4	Theory of liquidity preference	2	
	5	The downward slope of the Aggregate Demand Curve –	2	
	6	Changes in the money supply	2	
	7	Changes in the interest rate	1	
		Economic Stabilisation – Monetary Policy	15	
	8	Tools of Monetary Policy	1	
	9	open market operation	1	
	10	changing the bank rate	1	
п	11	changing the cash reserve ratio	1	22
11	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 8	
		Monetary Policy – Monetarist View		
III	17	Sources of Monetary Mismanagement – variable time lags, interest rate as a wrong target variable	4	12
	18	Monetary Rule:	2	
	19	Monetary Policy Prescription	2	
		Pre-requisites for Effective Monetary Transmission	11	
IV	20	Challenges of Effective Monetary Policy in Emerging Economies	5	16
	21	Monetary Transmission in Developing Countries:	4	
	22	Evidence from India	2	
		Open ended module	12	
V		Discussion based on different economic stabilisation policies across countries		
		Seminar on presenting the comparative analysis of monetary policy regimes of various countries		

Note: The course is divided into five modules, with four modules together having total 22 fixed units and one open-ended module with a variable number of units. There are total 48 instructional hours for the fixed modules and 12 hours for the open-ended one. Internal assessments (30 marks) are split between the open-ended module (10 marks) and the fixed modules (20 marks). The final exam, however, covers only the 22 units from the fixed modules. The 70 marks shown in the last column, distributed over the first four modules, are only for the external examination.

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)

	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6	PSO7
CO 1	3	-	-	-	-	-	-
CO 2	-	-	-	1	-	-	2
CO 3	-	-	-	3	-	3	2
CO 4	-	-	2	3	-	2	3
CO 5	-	-	-	-	-	-	2

MAPPING OF COS WITH PSOS:

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	\checkmark	\checkmark		\checkmark
CO 2	\checkmark			\checkmark
CO 3	\checkmark	\checkmark		\checkmark
CO 4	\checkmark	\checkmark		\checkmark
CO 5		\checkmark	\checkmark	

Programme	B.A. Economics with Foreign Trade						
Course Title	MONETARY POL	MONETARY POLICY AND STABILIZATION					
Type of Course	Minor						
Semester	II						
Academic Level	100 - 199						
	Credit	Lecture	Tutorial	Practical	Total		
Course Details	Cledit	per week	per week	per week	Hours		
	4	4	-	-	60		
Pre-requisites	Macroeconomics co	urse of $0 - 9$	99 level		-		
Course Summary	This course provides an in-depth analysis of monetary policy and its role in stabilization within the framework of macroeconomic theory. It examines the tools, objectives, and implementation of monetary policy, and its effectiveness in achieving macroeconomic stability. The course also explores the relationship between monetary policy and other macroeconomic variables such as inflation, output, employment, and economic growth.						

СО	CO Statement	Cognitive Level*	Knowledge Category#	Evaluation Tools used			
CO1	Understand the concept and objectives of monetary policy	U	С	Instructor-created exams / Quiz			
CO2	Analyze the tools and mechanisms of monetary policy implementation	An	F	Practical Assignment			
CO3	Evaluate the effectiveness of monetary policy in stabilizing the economy.	Ар	F	Seminar Presentation / Group Discussion			
CO4	Apply theoretical concepts to real-world monetary policy issues and challenges	Ap	Р	Seminar Presentation / Group Discussion			
CO5	Critically assess the role of central banks in formulating and implementing monetary policy	An	F	Viva			
CO6	CO6 Examine the relationship between monetary policy and macroeconomic variables An F Practical Assignment						
# - Fa	* - 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	
I	1	Definition and objectives of monetary policy	2	
	2	Exchange stabilization Vs price stabilization	3	15
	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	- 15
	7	Statutory liquidity ratio	2	10
	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	25
	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	
TX 7	19	Role of Central Bank Independence	1	1.5
IV	20	Monetary process and stabilization policy	2	15
	21	Lags in monetary policy	2	_
	22	Measurement of monetary lags and comparison to fiscal policy lags	3	
		Open Ended Module	12	1
		Discussion on goals of economic stabilisation]
v		Practical Assignments to study about the monetary policy and		
, v		macroeconomic stabilization		4
		Seminar to present the student's understanding of monetary		
		policy using a particular economy's experience.		

Note: The course is divided into five modules, with four modules together having total 22 fixed units and one open-ended module with a variable number of units. There are total 48 instructional hours for the fixed modules and 12 hours for the open-ended one. Internal assessments (30 marks) are split between the open-ended module (10 marks) and the fixed modules (20 marks). The final exam, however, covers only the 22 units from the fixed modules. The 70 marks shown in the last column, distributed over the first four modules, are only for the external examination.

REFERENCE:

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.

	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6	PSO7
CO 1	3	-	-	-	-	-	-
CO 2	-	3	-	1	-	-	-
CO 3		2	-	3	-	-	-
CO 4	-	3	1	3	-	2	2
CO 5	3	-	-	-	3	2	-

MAPPING OF COS WITH PSOS:

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	\checkmark	\checkmark		\checkmark
CO 2	\checkmark			\checkmark
CO 3	\checkmark	\checkmark		\checkmark
CO 4	\checkmark	\checkmark	\checkmark	\checkmark
CO 5	\checkmark	\checkmark	\checkmark	\checkmark
CO6	\checkmark	\checkmark	\checkmark	

Programme	B.A. Economics with	B.A. Economics with Foreign Trade						
Course Title	MONETARY POL	MONETARY POLICY IN INDIA						
Type of Course	Minor							
Semester	III							
Academic Level	200 – 299							
	Credit	Lecture	Tutorial	Practical	Total			
Course Details		per week	per week	per week	Hours			
	4	4	-	-	60			
Pre-requisites	Economics Courser	of level 100	- 199		•			
	This course explores the role of central bank in an economy and the							
Course Summary	effectiveness of monetary policy in achieving economic stability and							
	growth							

СО	CO Statement	Cognitive Level*	Knowledge Category#	Evaluation Tools used			
CO1	Understand the objectives, tools, and framework of monetary policy in India.	U	С	Instructor-created exams / Quiz			
CO2	Analyse effectiveness of Indian monetary policy in achieving macroeconomic stability and economic growth	An	F	Practical Assignment			
CO3	Explain the role of the Reserve Bank of India in regulating the financial system and managing currency circulation	Ap	F	Seminar Presentation / Group Discussion			
CO4	Assess the impact of Indian monetary policy on key macroeconomic variables such as inflation, output, exchange rates, and interest rates	Ap	Р	Seminar Presentation / Group Discussion			
CO5	Evaluate the current issues faced by Indian monetary authorities in formulating and implementing monetary policy decisions.	An	F	Viva			
# - Fac	 * - 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
Ι		Central Banking and Monetary Policy	12	
	1	Money supply	1	
	2	Background and objectives of monetary policy	2	
	3	Types of monetary policy	2	17
	4	Monetary management in an open economy	2	
	5	Impact of monetary policy on macroeconomic variables	3	
	6	Limitations of monetary policy	2	
II		Changing Role and Need of Central Banking	12	
	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	17
	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	
	12	Functions of the RBI	3	
	13	Recent developments in currency management	2	
	14	Inflation targeting	2	18
	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	
	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	18
	20	Taylor's rule	2	10
	21	The correlation between macroeconomic variables and monetary policy in India	3	
	22	Major Acts related to the RBI	2	
V		Open ended module	12	
		Discussion on monetary policy of the Reserve Bank of India in the last Five Years		
		Practical Assignments on recent policy changes announced by the R.B.I		
		Seminar to present contemporary issues in monetary policy management.		

Note: The course is divided into five modules, with four modules together having total 22 fixed units and one open-ended module with a variable number of units. There are total 48 instructional hours for the fixed modules and 12 hours for the open-ended one. Internal assessments (30 marks) are split between the open-ended module (10 marks) and the fixed modules (20 marks). The final exam, however, covers only the 22 units from the fixed modules. The 70 marks shown in the last column, distributed over the first four modules, are only for the external examination.

REFERENCE:

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	PSO7
CO 1	3	-	-	-	-	-	-
CO 2	-	3	-	1	-	-	-
CO 3		2	-	3	-	-	-
CO 4	-	3	1	3	-	2	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
- Practical Assignments (20%)
- Final Exam (70%)

	Internal Exam	Quiz / Assignment/ Viva Voce/ Discussion / Seminar	Practical Assignment	End Semester Examination
CO 1	\checkmark	\checkmark		\checkmark
CO 2	\checkmark			\checkmark
CO 3	\checkmark	\checkmark		\checkmark
CO 4	\checkmark	\checkmark	\checkmark	\checkmark
CO 5	\checkmark	\checkmark	\checkmark	\checkmark
CO6	\checkmark	\checkmark	\checkmark	

Programme		B.A. Economics with Foreign Trade						
Course Title	SECTORAL CON	SECTORAL CONTRIBUTIONS IN INDIAN ECONOMY						
Type of Course	Minor	Minor						
Semester	Ι	Ι						
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 of	Basic Economics course of 0-99 level						
Course	This course explor	This course explores important sectors in an economy, their trends,						
Summary	and compositions							

СО	CO Statement	Cognitive Level*	Knowledge Category#	Evaluation Tools used			
CO1	To provide students with an in-depth understanding of the primary, secondary, and tertiary sectors in the Indian economy.	U	С	Instructor- created exams / Quiz			
CO2	To analyze the historical evolution and status of each sector and their contributions to the GDP.	An	Р	Practical Assignment / Observation of Practical Skills			
CO3	To examine the employment generation and income distribution in each sector.	E	Р	Seminar Presentation / Group Discussion			
CO4	To evaluate the challenges and opportunities for each sector in the Indian economy.	Ар	F	Instructor- created exams / Home Assignments			
CO5	To encourage critical thinking on emerging sectors and open-ended discussions on their potential contributions.	Ар	F	Writing assignments			
# - F	* - 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 different sectors	8	
	1	Overview of the primary, secondary, and tertiary sectors	3	
Ι	2	Historical perspective of the sectoral composition in the Indian economy	3	12
	3	Importance of analysing sectoral contributions for economic planning	2	
		Performance of Primary Sector	15	
	4	Indian agriculture- Role nature and cropping pattern	2	
	5	Trend in agriculture production and productivity	1	
	6	Land reforms	2	
II	7	Agriculture input and green revolution	2	22
	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	
		Performance of the Industrial sector	15	
	12	Performance of Industries during Plan period	2	
	13	Some basic industries in India- iron and steel, jute, textile,	2	
		sugar, cement	Z	
III	14	Role of small scale and cottage industries- Problems faced by cottage industries	3	22
	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	
		Performance of the Service sector	10	
	19	Growth and contribution of service sector in India	3	1
IV	20	Service sector and employment	2	14
	21	Information and communication technology	2	
	22	Foreign trade in services	3	
		Open Ended Module	12	
	1	Discussion based on the new and emerging sectors in the		1
	1	Indian economy		
	2	Assignments on role of different sectors in Kerala		
V	Δ	economy		
	2	Seminar on contribution of different sectors to National		
	3	income in the last two years		
	4	Critically evaluate the performance of MSMEs		
	5	Debate on sustainability of service Led Growth		

Note: The course is divided into five modules, with four modules together having total 22 fixed units and one open-ended module with a variable number of units. There are total 48 instructional hours for the fixed modules and 12 hours for the open-ended one. Internal assessments (30 marks) are split between the open-ended module (10 marks) and the fixed modules (20 marks). The final exam, however, covers only the 22 units from the fixed modules.

The 70 marks shown in the last column, distributed over the first four modules, are only for the external examination.

REFERENCE:

- 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.

	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6	PSO7	PSO8	PSO9
CO 1	3	2	-	-	-	-	-	-	-
CO 2	-	3	-	2	-	-	-	_	-
CO 3	_	3	-	2	2	_	_	_	-
CO 4	-	2	-	2	-	-	2	3	_
CO 5	-	-	-	-	-	-	3	3	_

MAPPING OF COS WITH PSOS:

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	\checkmark	\checkmark		\checkmark
CO 2	\checkmark		\checkmark	\checkmark
CO 3	\checkmark	\checkmark		\checkmark
CO 4	\checkmark	\checkmark		\checkmark
CO 5		\checkmark	\checkmark	
CO 6			\checkmark	

Programme	B.A. Economics	with Foreign	n Trade		
Course Title	INDUSTRIAL I	POLICIES I	IN INDIA		
Type of Course	MINOR				
Semester	II				
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	s Course of	0-99 level		
Course Summary	This course seeks to equip students with the knowledge and skills necessary to contribute thoughtfully to discussions on India's industrial landscape, considering both historical context and future possibilities.				

СО	CO Statement	Cognitive Level*	Knowledge Category#	Evaluation Tools used
CO1	Understand the basic situation of Indian economy.	U	R	Instructor-created exams / Quiz
CO2	Help the beginning student master the industrial policies for understanding the Indian economy, specific economic issues, and policy alternatives.	ustrial erstanding nomy, U C ic issues,		Seminar Presentation / Group Discussion
CO3	Understand and apply the economic perspective and reason accurately and objectively about economic matters in Indian industry.	Ар	Р	Instructor-created exams / Home Assignments
CO4	Students will be able to critically evaluate the impact of economic reforms and liberalization measures on India's industrial sector.	An	р	Writing assignments
CO5	Demonstrate critical thinking and problem- solving skills by applying the acquired knowledge to address complex economic challenges in the contemporary world.	С	М	Viva Voce
	nember (R), Understand (U),			
	ual Knowledge(F) Conceptua gnitive Knowledge (M)	al Knowledge (C) Procedural Kn	owledge (P)

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

Note: The course is divided into five modules, with four modules together having total 22 fixed units and one open-ended module with a variable number of units. There are total 48 instructional hours for the fixed modules and 12 hours for the open-ended one. Internal assessments (30 marks) are split between the open-ended module (10 marks) and the fixed modules (20 marks). The final exam, however, covers only the 22 units from the fixed modules. The 70 marks shown in the last column, distributed over the first four modules, are only for the external examination.

REFERENCE:

- 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	PSO7	PSO8	PSO9
CO 1	3	-	-	-	-	-	-	-	-
CO 2	-	-	-	3	2	-	-	2	-
CO 3	-	-	-	1	-	-	3	3	-
CO 4	-	3	-	-	-	-	3	3	-
CO 5	3	-	-	-	-	-	2	3	-
CO 6	-	2	-	3	-	-	-	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
- Final Exam (70%)

	Internal Exam	Quiz / Assignment/ Viva Voce/ Discussion / Seminar	Practical Assignment	End Semester Examination
CO 1	\checkmark	\checkmark		\checkmark
CO 2	\checkmark		\checkmark	\checkmark
CO 3	\checkmark	\checkmark		\checkmark
CO 4	\checkmark	\checkmark	\checkmark	\checkmark
CO 5		\checkmark		
CO 6			\checkmark	

Programme	B.A. Econor	B.A. Economics with Foreign Trade				
Course Title	AGRICULT	TURAL DEV	VELOPMEN	NT IN INDIA	L .	
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 c	ourse of 100	0 – 199 leve	1		
Course Summary	This course explores the role of agriculture in economic development, the challenges faced by the agricultural sector in India and the policies and technological changes influencing agricultural growth.					

СО	CO Statement	Cognitive Level*	Knowledge Category#	Evaluation Tools used				
CO1	Understand the role of agriculture in Indian economy.	U	С	Instructor-created exams / Quiz				
CO2	Help student to identify the stages of agricultural development.	R	F	Assignment / Observation of analysing Skills				
CO3	Critical Assessment of Productivity Issues	An	Р	Seminar Presentation / Group Discussion				
CO4	Formulate recommendations for agricultural policy interventions and their role in fostering technological change	С	М	Instructor-created exams / Home Assignments				
CO5	Evaluate the determinants of agricultural development in India, considering economic, social, and environmental factors	E	М	Writing assignments				
CO6Apply economics to assess the role and importance of agriculture policy in the Indian economyApPViva Voce								
# - Factu	 * - 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
		Agriculture and Economic Development	12	
	1	Role of agriculture in development of Indian economy	2	17
	2	Features and progress of agriculture, Linkages between agriculture and other sectors	2	
т	3	Three stages of agricultural development	1	
Ι	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	
	Α	gricultural Production and Productivity	12	
	7	Trends in Agricultural Production and Productivity	3	17
· · · –	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	
		Technological Change in Agriculture	12	
	14	Strategy for development of Indian agriculture	2	18
	15	Green Revolution	2	
III	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	
		WTO and Indian Agriculture	12	
IV	19	WTO and India's trade in Agricultural commodities	3	
	20	Measures taken by India to increase exports of Agricultural commodities	3	18
	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	

	Open Ended Module	12
	Discuss the dominance of certain crops in the global market and its impact on local agriculture	
V	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	

Note: The course is divided into five modules, with four modules together having total 22 fixed units and one open-ended module with a variable number of units. There are total 48 instructional hours for the fixed modules and 12 hours for the open-ended one. Internal assessments (30 marks) are split between the open-ended module (10 marks) and the fixed modules (20 marks). The final exam, however, covers only the 22 units from the fixed modules. The 70 marks shown in the last column, distributed over the first four modules, are only for the external examination.

REFERENCE:

- 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, 25th silver jubilee edition, Himalaya Publishing House (Module 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

	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6	PSO7	PSO8	PSO9
CO 1	3	-	-	-	-	-	-	-	-
CO 2	3	2	-	1	-	-	-	-	-
CO 3	-	-	-	3	-	-	2	3	-
CO 4	-	2	1	3	-	-	3	3	-
CO 5		2	-	-	3	-	2	3	-
CO 6	-	1	-	2	2	-	3	3	-

MAPPING OF COS WITH PSOS:

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	\checkmark	\checkmark		\checkmark
CO 2	\checkmark			\checkmark
CO 3	\checkmark	\checkmark		\checkmark
CO 4	\checkmark	\checkmark		\checkmark
CO 5		\checkmark		
CO 6			\checkmark	

Programme	B.A. Economics with Foreign Trade						
Course Title	DEVELOPMENT ISSUES IN INDIAN ECONOMY						
Type of Course	Minor						
Semester	Ι						
Academic Level	100-199						
Course Details	Credit	Lecture	Tutorial	Practical	Total Hours		
		per week	per week	per week			
	4	4	-	-	60		
Pre-requisites	Basic Economics Course of 0 – 99 level						
Course Summary	This course explores important issues related to Development						
	such as Poverty, Unemployment, Inequality and Inflation.						

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CO	CO Statement	Cognitive Level*	Knowledge Category#	Evaluation Tools used		
CO1	Help in understanding the major development issues faced by Indian Economy and its historical precedents.	U	С	Instructor- created exams / Group Discussion.		
CO2	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	F	Instructor- created exams/ Seminars/ Projects		
CO3	Help in evaluating the conceptual framework methodology, trends and policy measures adopted regarding the development issues	Е	С	Seminar Presentation / Group Discussion		
CO4	After studying the development issues of Indian Economy, students will be exposed to economic reforms in India and problems of Indian economy	Ар	Р	Instructor- created exams / Home Assignments		
CO5	Students will learn how to think critically about public policy issues and made capable of measuring poverty and unemployment in a small region	Е	М	Writing assignments/ Group Discussions		
 * - 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
	His	storical Precedents of Development Issues of Indian	8	
		Economy		
	1	History of development Issues of Indian Economy	2	
Ι	2 Basic indicators of Development: Real income, Health		2	12
		and Education		_
	3	Basic issues in economic development	2	_
	4	Institutional framework and policy regimes	2	
		Poverty	13	
	5	Concepts of poverty- Absolute Measurement of Poverty,	2	
	5	Relative measurement of Poverty, Multi -Dimensional	3	
тт		Poverty Poverty Estimation-Poverty Line Calculation-		_
II	6		4	
	0	Consumption verses Income levels- Data collection Methods -URP, MRP	4	19
	7	Multi-dimensional poverty index.	1	19
	-	Post-Independence Poverty Estimation- Tendulkar		
	8	Committee (2009) -Rangarajan Committee.	2	-
	9	Trends of Poverty	1	
	10	Poverty Alleviation Programmes	1	
	11	Economic Characteristics of High- Poverty Groups	1	
		Inequality	12	
	12	Income Inequalities in India -Causes of Income		
		Inequalities in India	2	
	13	Measurements of Inequality-Lorenz Curve- Gini	2	
III		coefficient	2	17
	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	
		Unemployment:	15	
	18	Types and Structure of unemployment	3	
	19	Conceptual framework of key employment and	4	
IV		unemployment indicators:		22
	20	Nature and Estimates of Unemployment in India	3	_
	21	Government Policy for Removing Unemployment	3	_
	22	Major Employment Programmes	2	
	Fis	scal Deficit and Inflation in India, Measurements of	12	
		Poverty and Unemployment		_
		Discussion based on the trends in fiscal deficit and	3	
X 7		inflation in India		_
\mathbf{V}		A simple project for the Measurement of poverty using	5	
		MRP method in a Ward of LSG		-
		A simple project for the Measurement of	5	
		Unemployment in the local territory using any one methodology	5	
		methodology		

Note: The course is divided into five modules, with four modules together having total 22 fixed units and one open-ended module with a variable number of units. There are total 48 instructional hours for the fixed modules and 12 hours for the open-ended one. Internal assessments (30 marks) are split between the open-ended module (10 marks) and the fixed modules (20 marks). The final exam, however, covers only the 22 units from the fixed modules. The 70 marks shown in the last column, distributed over the first four modules, are only for the external examination.

REFERENCE:

- 1. Nicholas C. Hope, et al. Economic Reform in India : Challenges, Prospects, and Lessons, edited by, Cambridge University Press, 2013. (Module 1)
- 2. V.K. Puri, S. K. Misra, Bharat Garg -. Indian Economy including Union Budget 2023-24, 2023, Himalaya Publishing House. (Module 2,3,4 and 5)
- 3. Uma Kapila: 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 (12th 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.

	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6	PSO7	PSO8	PSO9
CO 1	3	-	-	-	-	-	-	-	-
CO 2	-	2	-	1	-	-	3	-	-
CO 3	-	-	-	2	-	-	3	-	-
CO 4	-	3	1	2	-	-	3	-	-
CO 5	-	3	-	-	2	-	2	3	-

MAPPING OF COS WITH PSOS:

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	\checkmark	\checkmark		\checkmark
CO 2	\checkmark		\checkmark	\checkmark
CO 3	\checkmark	\checkmark		\checkmark
CO 4	\checkmark	\checkmark		\checkmark
CO 5		\checkmark	\checkmark	
CO 6			\checkmark	

Programme	B.A. Econom	ics with Fore	eign Trade		
Course Title	TRADE POL	JCY IN IN	DIA		
Type of Course	Minor				
Semester	II				
Academic Level	100 - 199				
Course Details	Credit	Lecture	Tutorial	Practical	Total
		per week	per week	per week	Hours
	4	4	-	-	60
Pre-requisites	Basic Econom	nics course o	of 0 – 99 lev	el	
Course Summary	Basic Economics course of $0 - 99$ level This course provides students with a comprehensive understanding of the trade policy landscape in India, equipping them with the knowledge and analytical skills necessary to critically evaluate, formulate, and contribute to discussions on trade policies.				

CO	CO Statement	Cognitive Level*	Knowledge Category#	Evaluation Tools used	
CO1	Understand the fundamental principles and historical evolution of trade policy in India.	R	F	Instructor- created exams / Quiz	
CO2	Identify the different phases of India's trade policy development.	U	С	Practical Assignment / Observation of Practical Skills	
CO3	Explain the structural changes in India's foreign trade	An	Р	Seminar Presentation / Group Discussion	
CO4	Apply theoretical knowledge to assess the impact of FDI inflows on specific sectors.	Ар	Р	Instructor- created exams / Home Assignments	
CO5	Evaluate the effectiveness of India's Foreign Trade Policy 2023 in addressing economic challenges.	E	М	Writing assignments	
CO6	Develop recommendations for improving India's trade policies based on the analysis of structural changes.	С	М	Viva Voce	
 * - 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 Trade Policy in India	15	
	1	India's trade policy	2	
	2	Main features of India's trade policy	2	
	3	Phases of India's trade policy	2	
I	4	Structural changes in India's Foreign Trade during 1980'sand 1990's	3	22
	5	Composition of Trade	2	
	6	Direction of Trade	2	
	7	Foreign trade policy 2023	2	
		India's Balance of Payments	9	
	8	Balance of Payments,	1	
	9	India's Balance of Payments since 1950	3	10
II	10	Foreign Exchange Reserves- the theory of reserves and the management of reserves;	3	13
	11	Foreign Exchange Rate Policy, Exchange Rate;	2	
-		Foreign Direct And Portfolio Investments	9	
	12	Evolution of policy regime towards FDI and FPI in India,	2	
III	13	MNCs;	1	13
	14	FDI Inflows and their impact;	3	
	15	FDI Outflows;	3	
		WTO and India's Trade Policy	15	
	16	GATT - its impact on Indian Economy	2	
	17	TRIMS	2	
	18	TRIPS	2	
IV	19	WTO – origin,	2	22
	20	Objective and structure of WTO	2	
	21	India and WTO	2	
	22	Impact of WTO on various aspects of Indian economy	3	
		Open Ended Module	12	
		Discussion How SEZs contribute to job creation and technological advancements.		
V		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.		

Note: The course is divided into five modules, with four modules together having total 22 fixed units and one open-ended module with a variable number of units. There are total 48 instructional hours for the fixed modules and 12 hours for the open-ended one. Internal assessments (30 marks) are split between the open-ended module (10 marks) and the fixed modules (20 marks). The final exam, however, covers only the 22 units from the fixed modules. The 70 marks shown in the last column, distributed over the first four modules, are only for the external examination.

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 www.dgft.gov.in (Module 1)

ADDITIONAL READINGS

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

	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6	PSO7	PSO8	PSO9
CO 1	3	2	-	-	-		-	-	-
CO 2	-	3	2	-	-	-	2	-	-
CO 3	-	3	-	2	-	-	2	2	-
CO 4	-	2	-	2	-	-	3	3	-
CO 5	-	1	-	2	1	-	3	3	-
CO 6	-	-	-	2	1	-	3	3	-

MAPPING OF COS WITH PSOS:

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	\checkmark	\checkmark		\checkmark
CO 2	\checkmark		\checkmark	\checkmark
CO 3	\checkmark	\checkmark		\checkmark
CO 4	\checkmark	\checkmark		\checkmark
CO 5		\checkmark	\checkmark	
CO 6			\checkmark	

Program	B.A. Economics with				
Course Title	KNOWLEDGE EC	ONOMY IN	N 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 o	f 100-199 le	evel		
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.				

СО	CO Statement	Cognitive Level*	Knowledge Category#	Evaluation Tools used		
CO1	Understand the concept and characteristics of the knowledge economy.	U	С	Instructor- created exams / Quiz		
CO2	Analyze the impact of brain drain and brain gain on India's knowledge economy.	An	Р	Assignment / Seminar Presentation		
CO3	Evaluate the importance of intellectual property rights in fostering innovation.	E	Р	Seminar Presentation / Group Discussion		
CO4	Apply knowledge economy concepts to real-world scenarios.	Ap	Р	Practical Assignments / Case Studies		
CO5	Demonstrate critical thinking and problem-solving skills by applying the acquired knowledge to address complex economic challenges in the contemporary world.	Ap	Р	Writing assignments/ Survey / Seminar/ presentation/ Group Discussion		
# - Fact	* - 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 the Knowledge Economy	10	
	1	Definition and characteristics of the knowledge economy	1	
	2	Evolution of the knowledge economy	2	
Ι	3	Distinction between traditional and knowledge-based economies	2	15
	4	Global trends and drivers of the knowledge economy	3	
	5	The role of knowledge in economic development.	2	
		The Knowledge Economy in India	18	
	6	Emergence and growth of the knowledge economy in India	4	
		Key sectors of the Indian knowledge economy: IT, IT-enabled		
	7	services, biotechnology, pharmaceuticals, education, R&D	4	
	8	The role of government in promoting the knowledge economy	2	
II	9	Challenges and opportunities for the Indian knowledge economy	2	26
	10	Impact of the knowledge economy on employment patterns and social dynamics in India.	3	
	11	India's position in the global knowledge economy and its competitiveness.	3	
		Human Capital and the Knowledge Economy	8	
	12	The importance of human capital for the knowledge economy	2	
	13	Education and skill development in India	2	
III	14	Brain drains and brain gain in the Indian context	2	12
	15	Strategies for developing a skilled workforce for the knowledge economy	2	
	16	Policies and initiatives promoting education and human capital development in India.	2	
		12		
	17	Innovation and the Knowledge Economy Definition of Innovation and Knowledge	2	
IV	18	The role of innovation in 5 key capabilities or 'E's: Enablers, Education, Engagement, Entrepreneurship and Empowerment, Environment.	2	17
	19	The Indian innovation ecosystem: startups, incubators, accelerators	2	
	20	Intellectual property rights and innovation	2	
	21	The role of innovation in driving the knowledge economy	1	
	22	Challenges and opportunities related to IPR in India.	1	
		Open ended module	12	
T 7	1	Seminar on Building a Sustainable Knowledge Economy in India: Balancing Growth with Equity		
V	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	

Note: The course is divided into five modules, with four modules together having total 22 fixed units and one open-ended module with a variable number of units. There are total 48 instructional hours for the fixed modules and 12 hours for the open-ended one. Internal assessments (30 marks) are split between the open-ended module (10 marks) and the fixed modules (20 marks). The final exam, however, covers only the 22 units from the fixed modules. The 70 marks shown in the last column, distributed over the first four modules, are only for the external examination.

REFERENCE:

- 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

	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6	PSO7	PSO8	PSO9
CO 1	3	-	-	-	-	-	-	-	-
CO 2	-	3	-	2	-	-	-	-	-
CO 3	-	1	-	3	-	2	2	-	-
CO 4	-	1	-	1	-	-	2	3	-
CO 5	-	1	-	3	2	-	2	3	-

MAPPING OF COS WITH PSOS:

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	\checkmark	\checkmark		\checkmark
CO 2		\checkmark		\checkmark
CO 3		\checkmark		\checkmark
CO 4			\checkmark	\checkmark
CO 5		\checkmark	\checkmark	

Minor Courses in Quantitative Economics

Programme	B.A. Economics with Foreign Trade						
Course Title	QUANTITATIVE	TECHNIQ	UES FOR E	CONOMIC	ANALYSIS I		
Type of Course	Minor						
Semester	Ι						
Academic Level	100-199						
Course Details	Credit	Lecture	Tutorial	Practical	Total Hours		
		per week	per week	per week			
	4	4	-	-	60		
Pre-requisites	Basic Economics a	nd Mathema	tics Course	of 0 – 99 lev	el .		
Course Summary	This course cove	ers fundame	ental mathem	natical skills	essential for		
	comprehending various economic terminologies and solving associated						
	problems.						

CO	CO Statement	Cognitive Level*	Knowledge Category#	Evaluation Tools 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 /Practical 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		
 * - 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	9	
	1	Meaning and importance of mathematical economics	2	
		Nature of mathematical economics-mathematical v/s		
	2	nonmathematical economics- mathematical economics versus	2	
Ι		econometrics		13
	2	Ingredients of mathematical model-variables constants and	2	
	3	parameters- equations and identities	2	
	4	Equations- Linear and nonlinear equations- Variables and	3	
	-	parameters - Quadratic equations -solving quadratic equation		
		Set Theory	10	-
	4	Set notations	2	-
	5	Types of set- Operations of set	2	
II	6	Law of set operations	2	15
	7	Cartesian product	2	
	8	Ordered pairs	1	
	9	Relations and functions	1	
		Graphs and Economic Functions	12	
	11	Equations of straight line- Point of intersection of two lines	2	
	12	Concepts of slope and intercept	2	
	13	Graphical solutions of simultaneous equations	2	
III	14	14 Application of straight lines in economics- Demand and supply		17
		analysis- determination of equilibrium price and quantity	3	
	15	Economic functions: Demand function – supply function- utility		
		function- Consumption function- production function- cost	3	
		function- Revenue function- Saving function- investment function		
		Basic Matrix Algebra	17	
	16	Matrices: Meaning and types	2	
	17	Operations of matrix- Addition, subtraction, multiplication	2	
IV	18	Determinants-Properties	2	25
1 V	19	Inverse of a matrix	3	25
	20	Rank, trace and norm of matrix	2	
	21	Solution of equations- Crammer's Rule	3	
	22	Solution of equations-inverse method	3	
		Open Ended Module	12	
• 7	1	Assignment – theory part of demand, consumption, cost etc		
V	2	Seminar on theory topics		
	3	Draw graphs and diagrams using excel		

Note: The course is divided into five modules, with four modules together having total 22 fixed units and one open-ended module with a variable number of units. There are total 48 instructional hours for the fixed modules and 12 hours for the open-ended one. Internal assessments (30 marks) are split between the open-ended module (10 marks) and the fixed modules (20 marks). The final exam, however,

covers only the 22 units from the fixed modules. The 70 marks shown in the last column, distributed over the first four modules, are only for the external examination.

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.
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- 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.
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	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6	PSO7	PSO 8	PSO9
CO 1	3	1	-	-	-	-	-	-	-
CO 2	1	3	-	1	-	-	1	3	2
CO 3	1	3	-	1	-	-	-	-	-
CO 4	1	3	1	2	1	-	-	3	1
CO 5	1	2	-	3	-	1	-	2	2

MAPPING OF COS WITH PSOS:

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	\checkmark	\checkmark		\checkmark
CO 2	\checkmark	\checkmark	\checkmark	\checkmark
CO 3	\checkmark	\checkmark		\checkmark
CO 4	\checkmark	\checkmark	\checkmark	\checkmark
CO 5		\checkmark	\checkmark	

Programme	B.A. Econ	B.A. Economics with Foreign Trade							
Course Title	QUANTI	QUANTITATIVE TECHNIQUES FOR ECONOMIC ANALYSIS II							
Type of Course	Minor	Minor							
Semester	II	II							
Academic Level	100-199								
Course Details	Credit	Lecture per week	Tutorial	Practical	Total				
			per week	per week	Hours				
	4	4	-	-	60				
Pre-requisites	Basic Eco	nomics and Mathematics	Course of 0 $-$	99 level					
Course Summary	This cour	rse aims to equip student	ts with fundam	ental mathema	tical skills				
	essential f	essential for comprehending various economic terminologies and solving							
	associated	problems.							

СО	CO Statement	Cognitive Level*	Knowledge Category#	Evaluation Tools used
CO1	Understand the meaning and significance of mathematical terms commonly used in economics	U	С	Instructor-created exams / Quiz/ Assignments
CO2	Analyse economic data	An	С	Instructor-created exams /Practical Assignment
CO3	Evaluate the economic problems using mathematical methods	Е	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
* - Ren	nember (R), Understand (U), Ap	oply (Ap), Ar	nalyse (An), Eva	aluate (E), Create (C)

- Factual Knowledge(F) Conceptual Knowledge (C) Procedural Knowledge (P) Metacognitive Knowledge (M)

Module	Unit	Content	Hrs	Marks			
		Derivative and Rules of Differentiation	11				
I	1	Limits and continuity					
	2	2 Rules of differentiation					
	3Higher order derivatives4Implicit differentiation						
	4	2					
		Uses of Derivatives in Economics	14				
	5	5 Increasing and Decreasing Functions					
	6	2					
тт	7	Relative Extreme-Inflection Points	2	20			
II	8	Marginal concepts	2	20			
	9	Optimization of Functions-conditions	2				
	10	Successive derivative test for optimisation	2				
	11	Relationship among total average and marginal concepts	2				
		Calculus of Multi-variable Functions	13				
	12 Functions of Several Variables and Partial Derivatives						
	13	Rules of Partial Differentiation	2				
	14	4 Higher-Order Partial Derivatives					
III	15	Optimization of Multivariable Functions - Constrained		19			
		Optimization with Lagrange Multipliers - Significance of the	3				
		Lagrange Multiplier					
	16	Concept of Total and Partial Differentials	2	\neg			
	17	Concept of Total Derivatives	2				
		Calculus of Multi-variable Functions in Economics	10				
	18	Multivariable functions in economics- Marginal Utility-Marginal Productivity.	2				
	19	Income Determination-Multipliers and Comparative Statics- Income and Cross Price Elasticities of Demand.	2				
IV	20	Optimization of Multivariable Functions in Economics- Constrained Optimization of Multivariable functions in	2	15			
		economics					
	21	Cobb Douglass production function- properties2					
	22	CES production function -properties	2				
		Open Ended Module	12				
V	1	Assignment on theory topics					
v	2	Seminar on Production and function					
	3	Discussion on importance of differentiation in economics					

Note: The course is divided into five modules, with four modules together having total 22 fixed units and one open-ended module with a variable number of units. There are total 48 instructional hours for the fixed modules and 12 hours for the open-ended one. Internal assessments (30 marks) are split between the open-ended module (10 marks) and the fixed modules (20 marks). The final exam,

however, covers only the 22 units from the fixed modules. The 70 marks shown in the last column, distributed over the first four modules, are only for the external examination.

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- 4. Sydsaeter, Knut. Mathematics for economic analysis. Pearson Education India, 2013.
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	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6	PSO7	PSO8	PSO9
CO 1	3	1	-	-	-	-	-	-	-
CO 2	1	3	-	1	-	-	1	-	-
CO 3	1	3	-	1	-	-	-	-	-
CO 4	1	3	1	2	-	-	-	3	2
CO 5	1	2	-	3	-	-	-	-	3

MAPPING OF COS WITH PSOS:

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	\checkmark	\checkmark		\checkmark
CO 2	\checkmark	\checkmark	\checkmark	\checkmark
CO 3	\checkmark	\checkmark		\checkmark
CO 4	\checkmark	\checkmark	\checkmark	\checkmark
CO 5		\checkmark	\checkmark	

Programme	B.A. Economics with Foreign Trade						
Course Title	QUANTITATIVE 7	QUANTITATIVE TECHNIQUES FOR ECONOMIC ANALYSIS III					
Type of Course	Minor	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	nematics cou	rse of 100 –	199 level			
Course Summary	This course aims to	equip studer	nts with fund	amental math	ematical skills		
	essential for comprehending various economic terminologies and solving						
	associated problems.						

СО	CO Statement	Cognitive Level*	Knowledge Category#	Evaluation Tools used			
CO1	Students will understand the interdependencies among different sectors of the economy and how input- output 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.	Е	С	Instructor-created exams /Seminar Presentation / Group Discussion			
CO4	Students will apply integral calculus to analyze consumer and producer surplus in market equilibrium, understanding their economic interpretation and implications for welfare analysis	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			
# - Fact	 * - Remember (R), Understand (U), Apply (Ap), Analyse (An), Evaluate (E), Create (C) # - Factual Knowledge(F) Conceptual Knowledge (C) Procedural Knowledge (P) Metacognitive Knowledge (M) 						

	Content	Hrs	Marks		
	Integral Calculus: The Indefinite Integral	13			
1	Integration.				
2	Rules of Integration	2	19		
3	3	19			
4	3				
5	3				
	Integral Calculus: The Definite Integral	12			
6	Area Under a Curve	2			
7 The Definite Integral.		2			
8	The Fundamental Theorem of Calculus.	2	18		
9	Properties of Definite Integrals.	2			
10 Area Between Curves		2]		
11	Economic applications	2			
	Linear Programming and Input Output analysis	14			
12	Linear programming: Basic concept, Nature of feasible, basic,	2			
	and optimal solution	2			
13	Graphic solution	2	1		
14	Primal and dual problem	2	20		
15	Input Output Analysis: Open and closed, static and dynamic	4			
			-		
17					
18					
			13		
1					
-	$ \begin{array}{c} 2 \\ 3 \\ 4 \\ 5 \\ 6 \\ 7 \\ 8 \\ 9 \\ 10 \\ 11 \\ 12 \\ 13 \\ 14 \\ \end{array} $	1 Integration. 2 Rules of Integration 3 Initial Conditions and Boundary Conditions. 4 Integration by Substitution- Integration by Parts. 5 Economic applications 6 Area Under a Curve 7 The Definite Integral. 8 The Fundamental Theorem of Calculus. 9 Properties of Definite Integrals. 10 Area Between Curves 11 Economic applications Linear Programming and Input Output analysis 12 Linear Programming: Basic concept, Nature of feasible, basic, and optimal solution 13 Graphic solution 14 Primal and dual problem 15 Input Output Analysis: Open and closed, static and dynamic Leontief system 16 Matrix of technical coefficients – the Leontief matrix 17 Hawkins-Simon's conditions for viability Financial Economics 18 Arithmetic and geometric sequence and series 19 Simple interest, compound interest and annual percentage rates 20 Net present value and internal rate of return 21 Annuities, debt repayments, sinking funds <td>1 Integration. 2 2 Rules of Integration 2 3 Initial Conditions and Boundary Conditions. 3 4 Integration by Substitution- Integration by Parts. 3 5 Economic applications 3 6 Area Under a Curve 2 7 The Definite Integral. 2 8 The Fundamental Theorem of Calculus. 2 9 Properties of Definite Integrals. 2 10 Area Between Curves 2 11 Economic applications 2 12 Linear Programming and Input Output analysis 14 12 Linear programming: Basic concept, Nature of feasible, basic, and optimal solution 2 13 Graphic solution 2 2 14 Primal and dual problem 2 2 15 Input Output Analysis: Open and closed, static and dynamic Leontief system 4 16 Matrix of technical coefficients – the Leontief matrix 2 17 Hawkins-Simon's conditions for viability 2 18 Arithmetic and geometric sequence and series 2 <t< td=""></t<></td>	1 Integration. 2 2 Rules of Integration 2 3 Initial Conditions and Boundary Conditions. 3 4 Integration by Substitution- Integration by Parts. 3 5 Economic applications 3 6 Area Under a Curve 2 7 The Definite Integral. 2 8 The Fundamental Theorem of Calculus. 2 9 Properties of Definite Integrals. 2 10 Area Between Curves 2 11 Economic applications 2 12 Linear Programming and Input Output analysis 14 12 Linear programming: Basic concept, Nature of feasible, basic, and optimal solution 2 13 Graphic solution 2 2 14 Primal and dual problem 2 2 15 Input Output Analysis: Open and closed, static and dynamic Leontief system 4 16 Matrix of technical coefficients – the Leontief matrix 2 17 Hawkins-Simon's conditions for viability 2 18 Arithmetic and geometric sequence and series 2 <t< td=""></t<>		

Note: The course is divided into five modules, with four modules together having total 22 fixed units and one open-ended module with a variable number of units. There are total 48 instructional hours for the fixed modules and 12 hours for the open-ended one. Internal assessments (30 marks) are split between the open-ended module (10 marks) and the fixed modules (20 marks). The final exam, however, covers only the 22 units from the fixed modules. The 70 marks shown in the last column, distributed over the first four modules, are only for the external examination.

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- 2. Alpha C Chiang: Fundamental Methods of Mathematical Economics, 2nd Ed. -Inter National Student Edition, Mc Grawhill(1,2,3,4)

ADDITIONAL READINGS

- 1. Harrison, Michael, and Patrick Waldron. Mathematics for economics and finance. Routledge, 2011.
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	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6	PSO7	PSO08	PSO09
CO 1	3	1	-	-	-	-	-	-	-
CO 2	1	3	-	1	-	-	1	-	-
CO 3	-	3	-	1	-	-	-	1	-
CO 4	1	-	1	2	-	3	-	2	-
CO 5	1	2	-	3	-	2	3	-	3

MAPPING OF COS WITH PSOS:

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	\checkmark	\checkmark		\checkmark
CO 2	\checkmark	\checkmark	\checkmark	\checkmark
CO 3	\checkmark	\checkmark		\checkmark
CO 4	\checkmark	\checkmark	\checkmark	\checkmark
CO 5		\checkmark	\checkmark	

Programme	B.A. Economic	B.A. Economics with Foreign Trade					
Course Title	QUANTITAT	QUANTITATIVE TECHNIQUES FOR ECONOMIC ANALYSIS IV					
Type of Course	Minor						
Semester	VIII						
Academic Level	300 - 399						
Course Details	Credit	Lecture	Tutorial	Practical	Total Hours		
		per week	per week	per week			
	4	4	-	-	60		
Pre-requisites	Quantitative Ec	conomics co	urse of 200 -	– 299 level	•		
Course Summary	This course aim	ns to equip st	tudents with	a comprehen	sive understanding of		
	economic principles, analytical skills for interpreting real-world data, and the						
	ability to assess	and propose	solutions to c	complexecon	omic issues in various		
	sectors.						

СО	CO Statement	Cognitive Level*	Knowledge Category#	Evaluation Tools 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 strengths and limitations of mathematical approaches in economics, including considering assumptions, interpreting model results, and assessing the relevance of mathematical techniques to real-world economic issues.	E	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
	nber (R), Understand (U), Apply (Ap), Ana l Knowledge(F) Conceptual Knowledge (C ge (M)			

Module	Unit	Content	Hrs	Marks
		Theory of Consumer Behaviour	16	
	1	Basic concepts- Utility function-indifference curve-MRS	2	
	2	Utility maximisation-First and second order conditions-the		
	Z	choice of a utility index-two special cases	2	
	3	Demand function- compensated demand function- demand	2	
	5	curve-price and income elasticities of demand	Z	
Ι	4	Substitution and income effect-The Slutsky equation- direct	2	23
	4	effects- cross effects-substitutes and complements	2	
	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	
		Theory of Production	10	
	10	Production Function – Producers equilibrium – derivation of	2	
	10	input demand functions		
	11	Cobb-		15
II		Douglas production function - CES production function -VES	4	
		production function- Translog production.		
	12	Cost function: Derivation of cost as a function of output-	2	
	Duality - Shepherd's lemma-			
	13	Technological progress and production function.	2	
		Mathematical Treatment of Market Equilibrium	14	
	14	Equilibrium under perfect competitive market- an application to taxation	2	
		Profit maximisation under monopoly- price discrimination		
	15 under monopoly		3	
III		Multi-plant monopolist-multiple product monopolist- taxation		20
	16	and monopoly output- revenue maximizing monopolist		
		Duopoly and oligopoly: Homogenous product quasi		
	17	competitive solution-The Cournot and stackleberg solution	4	
	10	Duopoly and oligopoly: Differentiated product- Market shares	•	
	18	solution- kinked demand curve solution	2	
		Optimisation Over Time	8	
	10	Basic concepts-Bond market-market rate of reurn-discount rate	2	
TX 7	19	and present value	2	10
IV	20	Multi period consumption	2	12
	21	Investment theory of a firm	2	
	22	Interest rate determination	2	
		Open Ended Module	12	
T 7	1	Discussion on the characteristics of different types of market		
V	2	Assignment on monopolistic competition		

Note: The course is divided into five modules, with four modules together having total 22 fixed units and one open-ended module with a variable number of units. There are total 48 instructional hours for the fixed modules and 12 hours for the open-ended one. Internal assessments (30 marks)

are split between the open-ended module (10 marks) and the fixed modules (20 marks). The final exam, however, covers only the 22 units from the fixed modules. The 70 marks shown in the last column, distributed over the first four modules, are only for the external examination.

REFERENCE:

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- 2. Edward T. Dowling, Introduction to Mathematical Economics (3rd Edition), Schaum's Outline Series, McGRAW-HILL
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	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6	PSO7	PSO08	PSO09
CO 1	3	1	-	-	-	-	-	-	-
CO 2	1	3	-	1	-	-	1	-	-
CO 3	-	3	-	1	-	-	-	1	-
CO 4	1	-	1	2	-	3	-	2	-
CO 5	1	2	-	3	-	2	3	-	3

MAPPING OF COS WITH PSOS:

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	\checkmark	\checkmark		\checkmark
CO 2	\checkmark	\checkmark	\checkmark	\checkmark
CO 3	\checkmark	\checkmark		\checkmark
CO 4	\checkmark	\checkmark	\checkmark	\checkmark
CO 5		\checkmark	\checkmark	

Programme	B.A. Economics w	ith Foreign	Frade			
Course Title	ELEMENTARY	FOOLS FOI	R ECONOM	IC DATA A	NALYSIS 1	
Type of Course	Minor					
Semester	Ι					
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 a	and Statistics	Course of 0	– 99 level		
Course Summary	This course explor	es important	issues related	l to information	on collection	
	methods, arrangement of information and different technique of					
	information preser	ntation.				

СО	CO Statement	Cognitive Level*	Knowledge Category#	Evaluation Tools used
CO1	Helps to understand the principles behind different data collection techniques. Helps to Compare and contrast various classification algorithms.	U	C	Instructor- created exams / Group Discussion.
CO2	Helps to demonstrate the use of different data collection tools and techniques in real-world scenarios. Implement data classification algorithms on sample datasets. Solve problems related to data collection and classification using appropriate methods.	Ap	F	Instructor- created exams/ Seminars/ Projects
CO3	Helps to evaluate the strengths and weaknesses of different data collection methods and sampling methods. Makes the students able to assess the performance of classification algorithms in terms of accuracy and efficiency.	An	С	Seminar Presentation / Group Discussion
CO4	Apply data collection and classification techniques to real-world problems in diverse domains such as healthcare, finance, or marketing. Develop a project that involves collecting and classifying data to solve a practical issue.	Ap	С	Instructor- created exams / Home Assignments
CO5	Helps the students to develop a Design and to implement a comprehensive data collection and classification strategy for a complex problem.	С	F	Writing assignments/ Presentations
# - Fa	member (R), Understand (U), Apply (Ap), Ana ctual Knowledge(F) Conceptual Knowledge (C ledge (M)			

Module	Unit	Content	Hrs	Marks
		Economic Data	8	
	1	What is Economic Data? Usages of Economic Data.	2	
Ι	2	Types and Features of Economic Data- Primary and		12
	3	Sources of Economic Data.		
	4	Methods of Data Collection-Census and Sample survey	<u>1</u> 2	
	5	Planning the survey-Stages	2	
		Sampling and Sample Designs	14	
	6	Theoretical Basis of Sampling-Law of Statistical regularity, law of Inertia of large numbers	2	
II	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	20
	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	
		Arrangements of Data	10	
	13	Need for arranging Data	1	
III	14	Types of Data Classification-Geographical, Chronological, Quantitative and Qualitative.	3	15
	15	Construction of Frequency Distribution- Discrete and Continuous Frequency distribution	6	
		Data presentation methods	16	
	16	Tables- Simple and Complex tables	2	
	17	Diagrams-Bar Diagrams- Pie Diagrams-Three Dimensional diagrams-	2	
	18	Choice of a suitable diagram	1	
IV	19	Graphs-graphs of time series- Two scale graphs-Range chart- Band graph- Semi logarithmic Line graphs	4	23
	20	Arithmetic and Ratio scale Graph	1	-
	Graphs of frequency Distribution- Frequency polygon- frequency curve- histogram-ogives- less than and more than ogives.		5	
	22	Limitations of Diagrams and Graphs	1	1
		Open Ended Module	12	1
		Assignments on preparing questionnaires related to a		
V		relevant Economic phenomenon.		
		Data Management using spread sheet- Graphical presentation of Data-Line, Bar and Pie Diagrams		

Note: The course is divided into five modules, with four modules together having total 22 fixed units and one open-ended module with a variable number of units. There are total 48 instructional hours for the fixed modules and 12 hours for the open-ended one. Internal assessments (30 marks)

are split between the open-ended module (10 marks) and the fixed modules (20 marks). The final exam, however, covers only the 22 units from the fixed modules. The 70 marks shown in the last column, distributed over the first four modules, is only for the external examination.

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.

	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6	PSO7	PSO 8	PSO9
CO 1	3	-	-	-	-	-	-		
CO 2	-	3	-	1	-	-	2		
CO 3	3	-	-	1	-	-	-		
CO 4	-	3	1	2	-	-	3	3	
CO 5	3	-	-	-	-	-	2		3

MAPPING OF COS WITH PSOS:

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	\checkmark	\checkmark		\checkmark
CO 2	\checkmark		\checkmark	\checkmark
CO 3	\checkmark	\checkmark		\checkmark
CO 4	\checkmark	\checkmark		\checkmark
CO 5		\checkmark	\checkmark	

Programme	B.A. Economics with	Foreign Trad	e					
Course Title	ELEMENTARY TO	ELEMENTARY TOOLS FOR ECONOMIC DATA ANALYSIS II						
Type of Course	Minor							
Semester	II							
Academic Level	100-199							
Course Details	Credit	Lecture	Tutorial	Practical	Total Hours			
		per week	per week	per week				
	4	4	-	-	60			
Pre-requisites	Basic Economics and	Mathematics	course of 0	– 99 level	•			
Course Summary	This course explores important issues related to different measures of Central tendency, Dispersion, Skewness, Kurtosis and Moments. The course provides the knowledge on the wise and timely use of the descriptive statistics in Economics.							

CO	CO Statement	Cognitive Level*	Knowledge Category#	Evaluation Tools used
CO1	Helps to understand the different, statistical measures commonly used in data analysis.	U	С	Instructor- created exams / Group Discussion.
CO2	Students will be able to 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	The course will help the students to 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	The students will be made capable of demonstrate proficiency in utilizing descriptive statistics to summarize, interpret, and communicate economic data accurately and persuasively.	Ар	С	Instructor- created exams / Home Assignments
CO5	Students will be able to analyse the reliability and limitations of descriptive statistics in economic analysis, enabling informed decision-making in real-world scenarios.	An	F	Writing assignments/ Presentations
CO6	The students will be made capable to demonstrate the ability to communicate complex statistical concepts and their economic implications clearly and coherently to diverse stakeholders, fostering effective collaboration and decision- making.	С	F	Assignments to solve practical data set
	member (R), Understand (U), Apply (Ap), A ctual Knowledge(F) Conceptual Knowledge (C			
	ledge (M)		i Kilowieuge (I	

Module	Unit	Content	Hrs	Marks
		Measures of Central Tendency	12	
	1	Requisites of a good average	1	
	2	Arithmetic mean- calculation, properties- merits and demerits- weighted and combined arithmetic mean	3	
I	3	Median- and other partition values- calculation- graphic method- merits and demerits.	2	18
	4	Mode- Computation - Graphic Location- Merits and	2	10
	5	demerits Harmonic Mean and Geometric mean- computations-	3	-
		Mathematical Properties- Uses		
	6	Relationship among Averages	1	
		Measures of Dispersion	23	-
	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	
II	11	Quartile deviation- computation- merits and demerits	2	
	12 Mean Deviation-computation- mean deviation about 12 mean- mean deviation about median- relative measure- merits and demerits uses of mean deviation.		3	34
	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	
	15	Lorenz curve- Ginni Coefficient-	2	
	16	Relations between various measures of dispersion	2	
		Skewness and Kurtosis	8	
III	17	Skewness- measures of skewness- Karl Pearson's coefficient of skewness- Bowley's measure of Skewness-Kelly's measure of skewness.	5	11
	18	Kurtosis-meaning and interpretations-measures of kurtosis	3	
		Moments	5	
	19	Relations between central and raw moments	2]
IV	20	Sheppard's correction for grouping errors.	1	7
	21	Pearson's β and Υ coefficients based on moments	1]
	22	Coefficient of skewness based on moments.	1	
		Open ended module	12	
	23	Diagrammatic illustrations of possible averages and Dispersion measures		
V	24	Comprehensive understanding of a frequency distribution with measures of central tendency, dispersion, skewness and Kurtosis.		

Note: The course is divided into five modules, with four modules together having total 22 fixed units and one open-ended module with a variable number of units. There are total 48 instructional

hours for the fixed modules and 12 hours for the open-ended one. Internal assessments (30 marks) are split between the open-ended module (10 marks) and the fixed modules (20 marks). The final exam, however, covers only the 22 units from the fixed modules. The 70 marks shown in the last column, distributed over the first four modules, are only for the external examination.

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	PSO7	PSO8	PSO9
CO 1	3	-	-	-	-	-	-	-	-
CO 2	-	3	-	1	-	-	2	-	-
CO 3	3	-	-	1	-	-	-	-	-
CO 4	-	3	1	2	-	-	3	3	2
CO 5	3	_	_	_	-	-	2	3	3
CO 6	_	2	2	3	3	-	3	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
- 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	\checkmark	\checkmark		\checkmark
CO 2	\checkmark			\checkmark
CO 3	\checkmark	\checkmark		\checkmark
CO 4	\checkmark	\checkmark		\checkmark
CO 5		\checkmark		
CO 6				

Programme	B.A. Economics with Foreign Trade				
Course Title	ELEMENTARY TO	DOLS FOR	ECONOMI	C DATA ANA	ALYSIS III
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	Elementary Course o	n central ten	dency, Dispe	rsion, Skewne	ss, Kurtosis
	and Moments of level 100 – 199				
Course Summary	This course provides knowledge on correlation, Regression, Time series				
	and Index numbers a	and its econd	omic applicat	tion	

CO	CO Statement	Cognitive Level*	Knowledge Category#	Evaluation Tools used
CO1	Helps to understand the significance of correlation and regression coefficients in economic analysis.	U	С	Instructor-created exams / Group Discussion.
CO2	Students will be able to analyse various economic phenomenon in the light of correlation, regression and coefficient of determination.	An	F	Instructor- created exams/ Seminars/ Projects
CO3	The student will be able to evaluate the economic phenomenon such as inflation, growth etc. by using the knowledge on index numbers and time series.	Е	р	Seminar Presentation / Group Discussion
CO4	The students will be made capable of demonstrate proficiency in utilizing inferential statistics to summarize, interpret, and communicate economic data accurately and persuasively.	Ар	С	Instructor-created exams / Home Assignments
CO5	Students will be able to analyse the economic data with the help of softwares and capable of constructing simple models incorporating regression coefficients	С	F	Writing assignments/ Presentations

Module	Unit	Content	Hrs	Marks				
		Correlation Analysis	11					
	1	Meaning and Types of Correlation	2					
I	2	Methods of Studying correlation- scatter diagram- Correlation graph-Karl Pearson's Coefficient of correlation-rank Correlation- Method of concurrent Deviation						
	3 Properties of Correlation coefficient-Probable error							
	4 Coefficient of Determination- Meaning, Problems and Interpretation.							
	5	Lag and lead correlation	1					
		Linear Regression Analysis	11					
тт	6	2						
II	7	Meaning, types and Uses of Regression Difference between Correlation and Regression	1					
	8	Regression Lines- X on Y and Y on X- Uses of Regression lines on Prediction	4	16				
	9	Calculation for regression equations- method of Least Squares	2					
	10	Properties of Regression coefficients 1						
	11	Standard error of an estimate	1					
		Index Numbers	15					
	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					
III	15	Tests of index numbers- unit test- Time reversal test- factor reversal test-Circular test	2	22				
	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	1				
	19	Limitations of index numbers	1					
		Introduction to Time Series Analysis	11					
	20	What is Time series? Components of Time Series	3					
IV	21	Measurement of Trend- graphic method- Method of Semi Averages- Method of Curve fitting by Principle of Least squares	4	16				
	22	Measurement of Seasonal Variations- Simple average method- ratio to trend method-Ratio to moving average- method of link relatives- Deseasonalisation of data	4					
		Open Ended Module	12					
V		CPI, WPI and Stock Price Indices- BSE-SENSEX and NSE- NIFTY						
		Calculation of correlation and regression using Excel Trend line fitting in excel						

Note: The course is divided into five modules, with four modules together having total 22 fixed units and one open-ended module with a variable number of units. There are total 48 instructional hours for the fixed modules and 12 hours for the open-ended one. Internal assessments (30 marks) are split between the open-ended module (10 marks) and the fixed modules (20 marks). The final exam,

however, covers only the 22 units from the fixed modules. The 70 marks shown in the last column, distributed over the first four modules, are only for the external examination.

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	PSO7	PSO8	PSO9
CO 1	3	-	-	-	-	-	-		
CO 2	-	3	-	1	-	-	2		
CO 3	3	-	-	1	-	-	-		
CO 4	-	3	1	2	-	-	3	2	
CO 5	3	-	-	-	-	_	2	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
- 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	\checkmark	\checkmark		\checkmark
CO 2	\checkmark			\checkmark
CO 3	\checkmark	\checkmark		\checkmark
CO 4	\checkmark	\checkmark		\checkmark
CO 5		\checkmark		
CO 6				

Programme	B.A. Economics with Foreign Trade							
Course Title	ELEMENTARY TOOLS FOR ECONOMIC DATA ANALYSIS IV							
Type of Course	Minor	Minor						
Semester	VIII	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 knowled	ge on Estima	tion theory,	Festing of Hy	pothesis and			
	Descriptive Statistics	of level 20	0 – 299		•			
Course Summary	This course provides	s knowledge	on F test, A	NOVA, Inter	polation and			
	extrapolation and int	erpretation o	f data and st	atistical fallac	eies essential			
	for economic data an	nalysis and c	conducting e	conomic resea	arch.			

СО	CO Statement	Cognitive Level*	Knowledge Category#	Evaluation Tools used
CO1	Helps to 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. Helps to 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.	U	С	Instructor- created exams / Group Discussion.
CO2	Students will be able to 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	Helps to 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	р	Seminar Presentation / Group Discussion
CO4	The students will be made capable of applying interpolation techniques to estimate missing or intermediate values within a dataset.	Ар	С	Instructor- created exams / Home Assignments
CO5	Helps the students to design experimental studies or research questions suitable for ANOVA analysis. To design interpolation strategies for datasets with	С	F	Writing assignments/ Presentations

	irregular or missing data points.Synthesize findings from multiple sources to form well-founded interpretations and conclusions.							
* - Re	* - Remember (R), Understand (U), Apply (Ap), Analyse (An), Evaluate (E), Create (C)							
# - Fa	# - Factual Knowledge(F) Conceptual Knowledge (C) Procedural Knowledge (P) Metacognitive							
Know	vledge (M)							

Module	Unit	Content	Hrs	Marks		
		Introduction	10			
I	1	F Statistic	2			
	2	Critical values of F distribution	2	15		
	3	Chief features of F Distribution	2	15		
	4					
	5	Relation between t, F and Chi-square Distribution	2			
		Analysis of Variance	13			
	6	ANOVA-Meaning, Definition and Assumptions	2			
II	7	One way Classification	3	19		
	8	Hypothesis testing	3			
	9	Two Way classification	5			
		Interpolation and Extrapolation	14			
	10	Meaning and assumptions	1			
	11	Uses of Interpolation	2			
	12	Methods of Interpolation	2			
III	13	Graphic Method	2	20		
	14	Algebraic method	2			
	15	Method of Parabolic curve fitting	2			
	16	Interpolation with arguments at unequal intervals	2			
	17	Inverse interpolation	1			
		Interpretation of Data and statistical Fallacies	11			
	18	Interpretation of Data and statistical Fallacies- meaning and need	2			
IV	19	Factors leading to mis-interpretation of Data	2	1(
IV	20	Bias, Inconsistencies of definition, faulty generalization and inappropriate comparisons	2	16		
	21	Wrong interpretation of statistical measures.	3			
	22	Effect of wrong interpretation of data	2			
		Open Ended Module	12			
		Perform a one-way ANOVA to determine if there are				
		significant differences in test scores between the three				
		schools.				
V		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.	
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Note: The course is divided into five modules, with four modules together having total 22 fixed units and one open-ended module with a variable number of units. There are total 48 instructional hours for the fixed modules and 12 hours for the open-ended one. Internal assessments (30 marks) are split between the open-ended module (10 marks) and the fixed modules (20 marks). The final exam, however, covers only the 22 units from the fixed modules. The 70 marks shown in the last column, distributed over the first four modules, are only for the external examination.

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

	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6	PSO7	PSO8	PSO9
CO 1	3	-	-	-	-	-	-		
CO 2	-	3	-	1	-	-	2		
CO 3	3	-	-	1	-	-	-		
CO 4	-	3	1	2	-	-	3	2	
CO 5	3	-	-	-	-	-	2	3	3

MAPPING OF COS WITH PSOS:

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	\checkmark	\checkmark		\checkmark
CO 2	\checkmark			\checkmark
CO 3	\checkmark	\checkmark		\checkmark
CO 4	\checkmark	\checkmark		\checkmark
CO 5		\checkmark		
CO 6				

Vocational Minor Courses in Economics with Foreign Trade

Programme	B.A. Economics with Foreign Trade					
Course Title	BASICS OF INCOME TAX					
Type of Course	Vocational Minor					
Semester	Ι					
Academic Level	100 - 199					
Course Details	Credit	Lecture	Tutorial	Practical	Total	
		per week	per week	per week	Hours	
	4	4	-	-	60	
Pre-requisites	Introductory Macro	Economics c	course of 0 –	- 99 level		
Course	This course focus on	imparting ba	asic knowled	ge and equip s	students with	
Summary	application of princ	iples and pr	ovisions of	Income - tax	x Act, 1961	
	amended up to date.					

CO	CO Statement	Cognitive	Knowledge	Evaluation Tools used					
		Level*	Category#						
CO1	Understand the basic concept and terms of Income Tax	U	С	Instructor-created exams / Quiz					
CO2	Analyse Income Tax Statements and Tax Planning	An	Р	Practical Assignment					
CO3	Evaluate Various Sources of Income and Deductions	Е	F	Seminar Presentation / Group Discussion					
CO4	Apply Tax Planning Techniques	Ар	Р	Instructor-created exams / Home Assignments					
CO5	Create Tax Return Preparators (TRP)	Ар	F	Viva Voce					
* - Re	* - Remember (R), Understand (U), Apply (Ap), Analyse (An), Evaluate (E), Create (C)								
# - Fa	# - Factual Knowledge(F) Conceptual Knowledge (C) Procedural Knowledge (P) Metacognitive								
Know	vledge (M)								

Module	Unit	Content	Hrs	Marks
		Introduction to Income Tax	10	
	1	Basic Concepts- Purpose of Income Tax - Basic Terms of Income Tax	2	
	2	Income tax Act 1961, Recent Financial Amendments regarding Income Tax	2	
Ι	3	Direct and Indirect Taxes	2	15
1	4	Income - Agricultural income - Person - Assessee - Assessment Year - Previous Year -	2	15
	5	Gross total income - Total income - Residential status - Scope of total income on the basis of residential status –Exempted incomes.	2	
		Income Tax Calculation	17	
	6	Computation of Income under Different Heads	3	
	7	Deductions to be made in computing total income	3	
II	8	Computation of total Income of individuals	3	25
	9	Computation of Tax liability of individuals	3	
	10	Rebate and relief of tax	3	
	11	Recent Income Tax Slabs for Calculation	2	
		Income Tax Return Filing	14	
	12	Procedure of assessment of income tax	2	
	13	Filing of returns of income, ITR 1	2	
	14	Voluntary return of income – Statutory obligations in the filing of returns – Return of loss – Belated returns	2	
	15	Revised returns – Defective returns – PAN	2	• •
III	16	Different types of assessment – Self-assessment – Assessment on the basis of return – Best judgment assessment – Regular assessment	2	20
	17	Reassessment	1	
	18	Protective assessment	1	
	19	Key Dates for Return Filing	1	
	20	Penalties for Late Return	1	
		Income Tax Planning	7	
IV	21	Individual Tax Planning- Evasion-Avoidance- Refund	4	10
	22	Powers of Income Tax Authorities	3	
\mathbf{V}		Open Ended Module	12	
v		Discussion-Income tax heads and deductions		
		Practical Assignments Income Tax Calculation		
		and Return Filing		
		E-return filing -ITR1 Practical Return Filing		

Note: The course is divided into five modules, with four modules together having total 22 fixed units and one open-ended module with a variable number of units. There are total 48 instructional hours for the fixed modules and 12 hours for the open-ended one. Internal

assessments (30 marks) are split between the open-ended module (10 marks) and the fixed modules (20 marks). The final exam, however, covers only the 22 units from the fixed modules. The 70 marks shown in the last column, distributed over the first four modules, are only for the external examination.

REFERENCE:

1. Dr. H.C Mehrotra and Dr. S.P. Goyal (2022). Fundamentals of Income Tax A.Y 2022-23 (Module I,II,II, and IV)

ADDITIONAL READINGS

- 1. Henry Harvin.(2023).Income Tax Practices
- 2. Vinod K. Singhania & Kapil Singhania (2023). Direct Taxes Law & Practice | Professional Edition

MAPPING OF COS WITH PSOS:

	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6	PSO7	PSO 8	PSO 9
CO 1	3	-	-	-	-	-	-	-	-
CO 2	-	-	-	-	-	-	3	2	-
CO 3	-	-	-	3	-	-	2	2	-
CO 4	-	-	-	2	-	-	3	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	\checkmark	\checkmark		\checkmark
CO 2	\checkmark	\checkmark	\checkmark	\checkmark
CO 3	\checkmark	\checkmark		\checkmark
CO 4	\checkmark	\checkmark	\checkmark	\checkmark
CO 5		\checkmark	\checkmark	

Programme	B.A. Economics with	B.A. Economics with Foreign Trade					
Course Title	CALCULATION OF INCOME FOR TAXATION						
Type of Course	Vocational Minor	Vocational 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 co	ourse of $0 - $	99 level				
Course Summary		This course focuses on various aspects of income tax calculations, basic					
	components of inco	me, tax dedu	ctions, tax ex	emptions and	tax regimes.		

СО	CO Statement	Cognitive	Knowledge	Evaluation					
0		Level*	Category#	Tools used					
CO1	To understand the relevance of accurate income tax calculation.	U	С	Instructor- created exams / Practical Assignment					
CO2	To understand the basic elements of income tax calculation.	U	F	Writing assignments / Quiz					
CO3	To analyze the major components of income.	An	Р	Observation of Practical Skills / Group Discussion					
CO4	To analyze the impact of tax deductions and exemptions on taxable incomes.	An	Р	Observation of Practical Skills / Home Assignments					
CO5	To accurately compute income for taxation.	Ар	Р	Practical Skills / Instructor- created exams					
CO6	To compute tax liability under old and new tax regimes and to evaluate the most appropriate tax regime choice.	Е	М	Practical Assignment Viva Voce					
# - Fact	* - 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
		Basic Elements of Income Calculation	10	
I	1	Relevance of accurate income calculation	2	
	2	Gross income and taxable income	2	15
	3	Exempted income for all assesses	3	
	4	Residential status and tax liabilities	3	
		Income from Salary and House Property	16	
	5	Components of salaried income	1	
	6	Exempt portion of HRA and LTA	2	
	7	Impact of standard deduction on taxable income	1	
	8	Deductions from gross salary	2	
II	9	Computation of income from salary	2	23
	10	Computation of income from house property	2	
	11	Exempted Income from house properties.	2	
	12	Rules regarding valuation.	2	
	13	Determining annual value, deductions and taxable	2	
		income from house property	2	
	Inc	come from Business/Profession and Capital Gain	10	
	14	Profits and Gains of business/ Profession	3	
III	1.5	Deductions expressly allowed in respect to expenses	2	15
111	15	and allowances	Z	15
	16	Computation of income from business	3	
	17	Tax treatment of self-employed individuals	2	
		Income from Capital Gain	12	
	18	Meaning and types of capital gains	2	
IV	19	Computation of Short term and Long Term Capital Gain/Loss	3	17
	20	Exemption of Capital Gains	2	
	21	Calculation of cost of Original Shares & Bonus Shares	3	
	22	Income from other sources	2	
		Open Ended Module	12	
		Discussion based on tax saving investments and		
		impact of exemptions on taxable income.		
V		Practical Assignments to calculate tax liability under		1
		old and new tax slabs		
		Assessment and evaluation of factors influencing the		1
		choice between old and new regimes.		

Note: The course is divided into five modules, with four modules together having total 22 fixed units and one open-ended module with a variable number of units. There are total 48 instructional hours for the fixed modules and 12 hours for the open-ended one. Internal assessments (30 marks) are split between the open-ended module (10 marks) and the fixed modules (20 marks). The final exam, however, covers only the 22 units from the fixed modules. The 70 marks shown in the last column, distributed over the first four modules, are only for the external examination.

REFERENCE:

- 1. Gaur V.P. & Narang D.B., Income Tax Law and Practice, Kalyani Publishers.
- 2. Bhagwati Prasad ., Income Tax Law And Practice , Wishwa Prakashan Publishers,

- 3. T.S.Reddy & Y.Harry Prasad Reddy, Income Tax Law and Practice, Margham Publications.
- 4. Vuinod K Singhania and Kapil Singhania, Direct Taxes, Taxman Allied Services Pvt. Ltd.
- 5. N. Hariharan, Income Tax Law and Practice, Tata McGraw Hill publishing Co. Ltd, New Delhi.

	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6	PSO7	PSO8	PSO9
CO 1	3	2	1	-2	-	-	3	2	2
CO 2	3	1	-	2	-	-	2	2	2
CO 3	2	2	-	1	-	1	3	3	3
CO 4	2	3	2	1		1	3	3	3
CO 5	2	2	1	1	-	1	3	3	3
CO 6	-	2	2	2	2	-	3	3	3

MAPPING OF COS WITH PSOS:

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

	Internal Exam	Quiz / Assignment/ Viva Voce/ Discussion / Seminar	Practical Assignment	End Semester Examination
CO 1	\checkmark	\checkmark		\checkmark
CO 2	\checkmark	\checkmark		\checkmark
CO 3	\checkmark	\checkmark		\checkmark
CO 4	\checkmark	\checkmark		\checkmark
CO 5		\checkmark	\checkmark	
CO 6			\checkmark	

Programme	B.A. Economics with	B.A. Economics with Foreign Trade					
Course Title	INCOME TAX ASSESSMENT						
Type of Course	Vocational 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	Basics Course on Inc	come Tax of	level 100 -	199			
Course	This particular cours	se is intende	d to impart k	nowledge on	assessment		
Summary	procedure and filing	of return o	of income of	various asse	ssee and to		
-	provide practical skil	ls on comput	ation of total	income and ta	x liability of		
	individuals, HUF and	d Firms.			-		

СО	CO Statement	Cognitive Level*	Knowledge Category#	Evaluation Tools used				
CO1	Understand the rationale and procedure of Tax Assessment	U	С	Instructor-created exams / Quiz/ Assignments				
CO2	Analyse the concept of clubbing and aggregation of income.	An	С	Instructor-created exams /Practical Assignment				
CO3	Evaluate the various legal provisions of tax planning	Е	С	Instructor-created exams /Seminar Presentation / Group Discussion				
CO4	Apply tax computation procedure to Individual and HUF	An	С	Instructor-created exams/ Home Assignments				
CO5	Computation of tax liabilities of entities	An	Р	Writing assignments/ Seminar/ presentation/ Group activities				
# - Fact	* - 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 Tax Assessment	12			
	1	1Assessment- Definition, Objectives and Types				
	2	Assessment year Section 2(9), Previous Year –Exception rules	1			
	3					
Ι	4	Types of Income- Total Income, Casual Income, Assessment Income	2	17		
	5	Rate of Income tax for the assessment Year	1			
	6	Assessment, filing and Payment of Tax	1			
	7	Return – Meaning of return – Types of return	2			
	8	Forms Prescribed for filing of return	1			
	9	PAN – Compulsory cases of PAN.	1			
		Clubbing and Aggregation of Income	12			
	10	3				
II	11	Types of Income for Clubbing	3	17		
	12	Provisions for Clubbing and Aggregation	3			
	13	Set off and carry forward of losses: Provisions	3			
		Tax Assessment (Theory Only)				
	14	14 Assessment of Individuals - Various sources of income of an				
		individual	3			
III	15	Procedure for computing Total Income	3	22		
111	16	Assessment of Hindu Undivided Family – HUF v/sFirm –	2	<u> </u>		
	17	Incomes not treated as family income	2			
	18	Assessment of Firms –Classification of firms	2			
	19	Section 184- Computation of Tax Liability	3			
		Tax Planning Strategies	9			
	20	Effective Tax Planning Techniques	3			
IV	21	Tax Avoidance and Tax Evasion	3	14		
	22	Deductions under 80C	3			
		Open Ended Module	12			
	1	Discussing recent tax laws				
\mathbf{V}	2	Analysing real life case studies related to tax assessment				
	3	File the income tax return of any Two individual				

Note: The course is divided into five modules, with four modules together having total 22 fixed units and one open-ended module with a variable number of units. There are total 48 instructional hours for the fixed modules and 12 hours for the open-ended one. Internal assessments (30 marks) are split between the open-ended module (10 marks) and the fixed modules (20 marks). The final exam, however, covers only the 22 units from the fixed modules. The 70 marks shown in the last column, distributed over the first four modules, are only for the external examination.

REFERENCE:

- 1. Income Tax, Vinod K. Sinhania& Monica Sinhania, Taxmann Publications Pvt.Ltd, New Delhi.
- 2. Taxation Law & Practice, Mehtrotra&Goyal, Sahitya Bhavan Publication, Agra.

ADDITIONAL READINGS

- 1. Systematic Approach to Income Tax, Garish Abuja& Ravi Gupta, Bharat Law House Pvt. Ltd, New Delhi.
- 2. Girish Ahuja and Ravi Gupta: Professional Approach to Direct Taxes Law & Practice; Bharat Law House, New Delhi.

	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6	PSO7	PSO 8	PSO9
CO 1	3	1	-	-	-	-	-	-	-
CO 2	1	3	-	1	-	-	1	3	2
CO 3	1	3	-	1	-	-	-	-	-
CO 4	1	3	1	2	-	-	-	3	1
CO 5	1	2	-	3	-	-	-	2	2

MAPPING OF COS WITH PSOS:

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	\checkmark	\checkmark		\checkmark
CO 2	\checkmark	\checkmark	\checkmark	\checkmark
CO 3	\checkmark	\checkmark		\checkmark
CO 4	\checkmark	\checkmark	\checkmark	\checkmark
CO 5		\checkmark	\checkmark	

Programme	B.A. Economics with	B.A. Economics with Foreign Trade					
Course Title	INCOME TAX LA	INCOME TAX LAWS PROCEDURES AND AUTHORITIES					
Type of Course	Vocational 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	Income Tax course of	of 200 – 299	level		•		
Course Summary	This course aims to	provide basi	c knowledge	about the pri	nciples and		
	provisions of income	provisions of income tax, as well as its authority, and to equip students					
	with the application	of the Incon	ne Tax Act.				

СО	CO Statement	Cognitive Level*	Knowledge Category	Evaluation Tools used			
CO1	Understand the basic concepts, procedures and authorities of income tax.	U	С	Instructor-created exams / Quiz			
CO2	Identification of income tax from various sources and analysis of its interdependence and differences.	An	Р	Practical Assignment			
CO3	To apply income tax procedures in real life situations.	Ар	F	Seminar Presentation / Group Discussion			
CO4	Assessment of income tax procedures across personal, business, and other areas with the relevant authorities.	Ар	С	Instructor-created exams / Home Assignments			
CO5	Evaluate the components of income tax laws and apply them to the present tax situation.	Е	М	Viva			
# - Fact	 * - 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	BUS: Content	Hrs	Marks
1120 00010	01110	Basic Concepts under Income Tax	11	
	1	Income from salary and house property	2	
I	2	Income from business and profession	2	
	3	Determination of agricultural and Non-agricultural income	2	16
	4	4		
	5	sources. Gross total income, Total income	1	
	_	12		
	6	Computation of Income tax and Tax liability Determination of residential status	2	
	7	Classification of income under different heads	2	
	8	Computation of income under each head	2	
II	9	Clubbing of income of spouse, minor child etc.	1	18
	10	Computation of Gross Total Income (GTI)	2	
	11	Deduction from GTI	1	
	12	Computation of Taxable income and computation of tax liability	2	
		Components of Income Tax Law	12	
	13	Type of taxes – Direct taxes and Indirect taxes	2	
III	14	Classifications – Income tax – Tax on undisclosed foreign income and assets – Goods and Services tax (GST) – Customs duty.	3	18
	15	Income tax Act 1961	2	
	16	Annual Finance Act	1	
	17	Income tax rules, Circulars and Notifications	3	
	18	Legal decisions	1	
		Income Tax Authorities and their powers	13	
	19	Roles and responsibilities of income tax authorities.	3	
	20	Powers of income tax authorities	3	
IV	21	Classification of income tax authorities – Administrative and Judicial authorities - Central Board of Direct Taxes, Commissioner, a Joint Commissioner, a Director, a Joint Director, an Assistant Director or a Deputy Director or an Assessing Officer, or a Tax Recovery Officer	4	18
	22	Jurisdictional aspects and transfer of cases	3	
		Open Ended Module	12	
V	1	Examine and contrast tax evasion, avoidance, and planning concerning personal, organizational, and corporate income tax filings.		
	2	Prepare income tax statements for Individuals, Organizations and Companies.		

Note: The course is divided into five modules, with four modules together having total 22 fixed units and one open-ended module with a variable number of units. There are total 48 instructional hours for the fixed modules and 12 hours for the open-ended one. Internal assessments (30 marks) are split between the open-ended module (10 marks) and the fixed modules (20 marks). The final exam, however, covers only the 22 units from the fixed modules. The 70 marks shown in the last column, distributed over the first four modules, are only for the external examination.

REFERENCE:

1. Dr. H.C. Mehrotra and Dr. S.P Goyal, Income Tax Law and Account,64th Edition, Sahitya Bhawan Pulications.

ADDITIONAL READINGS:

- 1. Girish Ahuja and : Systematic Approach to Income-tax, Service Tax and VAT; Bharat Law Ravi Gupta House, T-1/95, Mangolpuri Industrial Area, Phase I, New Delhi-110 083. (Edition based on provisions applicable for AY 2017-18)
- 2. B. B. Lal and N. Vashist : Direct Taxes, Income Tax, and Tax Planning; Darling Kindersley (India) Pvt. Ltd., 482, FIE, Patparganj, Delhi.-110092 (Edition based on provisions applicable for AY 2017-18)
- 3. Dr. H. C. Mehrotra and : Direct Taxes (with Tax Planning); Sahitya Bhawan, Agra. (Edition based Dr. S.P. Goyal on provisions applicable for AY 2017-18)
- 4. Girish Ahuja and : Professional Approach to Direct Taxes Law & Practice; Bharat Publications Ravi Gupta (Edition based on provisions applicable for AY 2017-18)
- 5. Vikas Mundra : Tax Laws and Practices; Law Point publications, 6C, R.N. Mukherjee Road, Kolkata- 700001 (edition based on provisions applicable for AY 2017-18)
- V. S. Datey : Service Tax Ready Reckoner; Taxmann Publications, 59/32, New Rohtak Road, New Delhi 7. J. K. Mittal : Law, Practice & Procedure of Service Tax; CCH India, (Walters Kluwer (India) Pvt. Ltd.), 501-A, Devika Tower, 6 Nehru Place, New Delhi.
- Balram Sangal and : All India VAT manual (4 Vols.); Commercial Law Publisheres (India) Pvt Jagdish Rai Goel Ltd., 151, Rajindra Market, Opp. Tis Hazari Courts, Delhi – 110 054
- 8. GST : Introduction and way Forward Bloom Bury publication

	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6	PSO7	PSO8	PSO9
CO 1	3	-	-	-	-	-	-	-	-
CO 2	-	3	-	2	-	-	2	3	3
CO 3		2	-	2	-		-	2	3
CO 4	-	3	2	3	-	2	3	3	-
CO 5	3	-	-	-	-	2	2	-	3

MAPPING OF COS WITH PSOS:

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	\checkmark	\checkmark		\checkmark
CO 2	\checkmark	\checkmark	\checkmark	\checkmark
CO 3	\checkmark	\checkmark	\checkmark	\checkmark
CO 4	\checkmark	\checkmark	\checkmark	\checkmark
CO 5	\checkmark	\checkmark	\checkmark	

Programme	B.A. Economics with Foreign Trade							
Course Title	FOUNDATIONS OF	FOUNDATIONS OF GST						
Type of Course	Vocational Minor							
Semester	Ι							
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 Cours	se of 0-99 leve	-1					
Course Summary	This course provides a comprehensive introduction to GST, covering its features, application, applicability and practical implementation.							

CO	CO Statement	Cognitive Level*	Knowledge Category	Evaluation Tools used
CO1	Understand the fundamentals of GST, its Features, framework and constitutional provision	R	F	Instructor-created exams / Quiz
CO2	Gain ability to differentiate supply of goods and services	An	С	Seminar Presentation / Group Discussion
CO3	Determining time and place of supply of goods and services	Е	Р	Seminar Presentation / Group Discussion
CO4	Determining value of supply of goods and services	Е	Р	Writing assignments
CO5	To Understand the exempted goods and services	U	Р	Instructor-created exams / Quiz
CO6	To explore the scope and conditions of composition levy	An	Р	Viva Voce
# - Fact	nember (R), Understand (U), A tual Knowledge(F) Conceptua gnitive Knowledge (M)			

Module	Unit	Content	Hrs	Marks		
		Introduction to GST	12			
	1	Meaning and features of Goods and Service Tax (GST)	2			
	2	Background, Necessity and implementation of GST	2			
Ι	3	Benefits of GST	2	17		
	4	Taxes subsumed in GST	1			
	5	Framework of Goods and Services Tax	2			
	6	Constitutional provision	3			
		Supply under GST	12			
	7	Meaning and scope of Supply	2			
	8	Deemed Supply	2			
II	9	Supply of goods or supply of services	3	17		
	9	Negative list	2			
	10	Tax Liability on composite supplies	2			
	11	Tax Liability on mixed supplies	1			
		Taxable Supply	15	1		
	12	List of exempt goods under GST	2			
	13	List of exempt services under GST	4			
III	14	Time of supply of goods	2	22		
	15	Time of supply of services	2			
	16	Place of supply of goods and services	3			
	17	Determination of value of Taxable supply	2			
		Composition Levy	9			
	18	Eligibility for composition scheme	2			
IV	19	Ineligibility for composition scheme	2	14		
1 1	20	Intimation of opting for composition levy	1			
	21	Conditions and restriction for composition levy	2			
	22	Withdrawal and denial of composition scheme	2			
		Open Ended Module	12			
V	23	Practical problems on determining value of supply				
v	24	Electronic Commerce Operator				
	25	TDS and TCS under GST				

Note: The course is divided into five modules, with four modules together having total 22 fixed units and one open-ended module with a variable number of units. There are total 48 instructional hours for the fixed modules and 12 hours for the open-ended one. Internal assessments (30 marks) are split between the open-ended module (10 marks) and the fixed modules (20 marks). The final exam, however, covers only the 22 units from the fixed modules. The 70 marks shown in the last column, distributed over the first four modules, are only for the external examination.

REFERENCE:

- 1. Shivakumar Upavasi (2021), GST FOR BEGINNERS : FOUNDATIONS FOR GST
- 2. https://boslive.icai.org

ADDITIONAL READINGS

- 1. Sonal G Singh , Understanding GST, Cyber-tech publications, New Delhi
- 2. M M Surg, Goods and Services tax (GST) in India: Background, Present structure and Future changes, New Century Publications, New Delhi.

	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6	PSO7	PSO8	PSO9
CO 1	3	1	-	-	-	-	-	-	-
CO 2	-	-	2	-	-	-	2	-	-
CO 3	-	-	-	-	-	-	3	-	-
CO 4	-	1	-	-	-	-	-	-	3
CO 5	3	-	-	-	-	-	-	2	3
CO 6	-	-	-	-	-	-	-	-	3

MAPPING OF COS WITH PSOS:

CORRELATION LEVELS:

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

ASSESSMENT RUBRICS:

- Quiz / Assignment/ Viva Voce/ Discussion / Seminar (10%)
- Internal Exam (10%)
- Assignments (10%)
- Final Exam (70%)

	Internal Exam	Quiz / Assignment/ Viva Voce/ Discussion / Seminar	Practical Assignment	End Semester Examination
CO 1	\checkmark	\checkmark		\checkmark
CO 2	\checkmark		\checkmark	\checkmark
CO 3	\checkmark	\checkmark	\checkmark	\checkmark
CO 4	\checkmark	\checkmark	\checkmark	\checkmark
CO 5		\checkmark	\checkmark	
CO 6			\checkmark	

Programme	B.A. Economics with	B.A. Economics with Foreign Trade					
Course Title	GST COMPLIANCE	£					
Type of Course	Vocational Minor						
Semester	II						
Academic Level	100 – 199	100 – 199					
Course Details	Credit	Lecture per week	Tutorial per week	Practical per week	Total Hours		
	4	4	-	-	60		
Pre-requisites	Basic economics	course of lev	el 0 – 99				
Course Summary	filing GST returns i developments and am	This course explores principles of GST compliance, provides proficiency in filing GST returns in time and make the students updated on recent developments and amendments in GST laws and regulations that may impact compliance requirements.					

CO	CO Statement	Cognitive Level*	Knowledge Category#	Evaluation Tools used
CO1	Understand the fundamental concepts and principles of GST compliance, including return filing, input tax credit, and anti-profiteering measures.	R	F	Instructor-created exams / Quiz
CO2	Gain proficiency in filing various GST returns accurately and within the stipulated timelines, including GSTR-1, GSTR-3B, and annual returns.	U	С	Seminar Presentation / Group Discussion
CO3	Develop skills to identify and mitigate compliance risks associated with GST, including penalties for non-compliance.	Ар	Р	Seminar Presentation / Group Discussion
CO4	Explore strategies and best practices for ensuring GST compliance in different business scenarios, including managing cross-border transactions and GST audits.	Ар	С	Seminar Presentation / Group Discussion
CO5	Analyze case studies and real-life examples to understand practical challenges and solutions in GST compliance.	An	Р	Writing assignments
CO6	Stay updated on recent developments and amendments in GST laws and regulations that may impact compliance requirements.	С	Р	Viva Voce
# - Fa	emember (R), Understand (U), Apply (Ap), Anal actual Knowledge(F) Conceptual Knowledge (C) vledge (M)			

Module	Unit	Content	Hrs	Marks		
		Introduction to GST Compliance and Registration Procedures	14			
	1	GST vs the Current Indirect Tax Structure	2			
I	2	Key GST Compliance	1			
	3 Criteria for GST registration.					
	4	Procedure for GST registration.	4			
	5	Voluntary registration vs. mandatory registration.	2			
	6	Exemption from GST Registration	2			
		Books of Accounts	15			
	7	Maintenance of Books of Accounts:	2			
	8	Who must maintain accounts under GST?	2			
	9	The records must be maintained under GST	2			
II	10	The accounts maintained under GST	3	10		
	11	Accounting entries under GST	2			
	12	Electronic Cash and Credit Ledger	2			
	13	Period for Retention of Accounts under GST	1			
	14	Consequences of Not Maintaining Proper Records	1			
		Issuing GST Invoices and Filing of GST Returns	11			
	15	The mandatory fields a GST Invoice - Types of invoices- Bill of supply-	4			
		Aggregate invoice-Reverse charge invoice-Debit and credit note	4			
III	16	GST Returns - How and When to File Them-	2	20		
	17	Types of GST returns (GSTR-1, GSTR-3B, GSTR-9, etc.). What is GSTIN?	3			
	18	Common errors and challenges in return filing	2			
		Input tax credit and other compliance	8			
	19	ITC - conditions- Items not allowed for ITC	2			
IV	20	GST Compliance Audits-	3	15		
	21	Compliance with GST Council Notifications:	2			
	22	Consequences of Non-Compliance	1			
		Open Ended Module	12			
		Practical problem highlights the importance of having accurate GSTINs				
		and the challenges businesses may face if there are discrepancies or				
V		errors in their GST registration details.				
		Latest budget updates on ITC				
		Practical problem illustrates the importance of adhering to the conditions				
		for claiming ITC and being aware of the items for which ITC is not				
		allowed to avoid financial implications and compliance issues.				

Note: The course is divided into five modules, with four modules together having total 22 fixed units and one open-ended module with a variable number of units. There are total 48 instructional hours for the fixed modules and 12 hours for the open-ended one. Internal assessments (30 marks) are split between the open-ended module (10 marks) and the fixed modules (20 marks). The final exam, however, covers only the 22 units from the fixed modules. The 70 marks shown in the last column, distributed over the first four modules, are only for the external examination.

REFERENCE:

1. Agarwala, D., Banka, K. V., & Saraf, A. (2022). *Practical Guide to GST Compliances*. Taxmann. 2. https://cleartax.in/s/gst-payment-issues-complaint

ADDITIONAL READINGS

- 1. Government of India. (n.d.). Criteria for GST Registration. GST Council. Retrieved from https://www.gst.gov.in/ (Module II)
- 2. Central Board of Indirect Taxes and Customs. (n.d.). Procedure for GST Registration. Goods & Services Tax Network. Retrieved from https://www.gstn.org/
- 3. Ministry of Finance, Government of India. (n.d.). Types of Invoices Under GST. Goods & Services Tax Network. Retrieved from https://www.gstn.org/
- 4. Central Board of Indirect Taxes and Customs. (n.d.). How to File GST Returns: Step-by-Step Guide. Goods & Services Tax Network. Retrieved from https://www.gstn.org/

	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6	PSO7	PSO8	PSO9
CO 1	2	1	-	-	-	-	-	-	-
CO 2	-	-	2	-	-	-	2	-	-
CO 3	-	-	-	-	-	-	3	-	-
CO 4	-	1	-	-	-	-	-	-	3
CO 5	3	-	-	-	-	-	-	2	3
CO 6	-	-	-	-	-	-	-	-	3

MAPPING OF COS WITH PSOS:

CORRELATION LEVELS:

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

ASSESSMENT RUBRICS:

- Quiz / Assignment/ Viva Voce/ Discussion / Seminar (10%)
- Internal Exam (10%)
- Assignments (10%)
- Final Exam (70%)

	Internal Exam	Quiz / Assignment/ Viva Voce/ Discussion / Seminar	Practical Assignment	End Semester Examination
CO 1	\checkmark	\checkmark		\checkmark
CO 2	\checkmark		\checkmark	\checkmark
CO 3	\checkmark	\checkmark	\checkmark	\checkmark
CO 4	\checkmark	\checkmark	\checkmark	\checkmark
CO 5		\checkmark	\checkmark	
CO 6			\checkmark	

Programme	B.A. Economics with	th Foreign Tra	ade				
Course Title	GST AUDIT AND	GST AUDIT AND INVESTIGATION TECHNIQUES					
Type of Course	Vocational Minor						
Semester	Ш						
Academic Level	200-299						
		-					
Course Details	Credit	Lecture	Tutorial	Practical	Total		
		per week	per week	per week	Hours		
	4	4	-		60		
Pre-requisites	Foundation cour	rse on GST of	f level 100 –	- 199			
Course Summary	The objective of thi	s paper is to t	understand	the provision	s of the GST		
	law, including the co	orrectness of t	he tax return	s filed, payme	ent of tax, and		
	compliance with oth	compliance with other provisions of the law and to know different					
	techniques of GST	auditing					

CO	CO Statement	Cognitive Level*	Knowledge Category#	Evaluation Tools used				
CO1	Understand the fundamental concepts and principles of GST auditing	R	F	Instructor- created exams / Quiz				
CO2	The program's mission is to broaden the horizon of the learners with a deeper understanding of the GST law and its e filing in the new digital environment and equip them with a new set of tools to help them digitally create and file GST returns.	U	С	Seminar Presentation / Group Discussion				
CO3	Develop a detailed understanding in the students of law and practice of Goods and Services Tax and the application of its provisions.	Ар	Р	Seminar Presentation / Group Discussion				
CO4	Develop a detailed understanding in the students of documents, records, books of accounts and tax returns, and the requirements for the payment of Goods and Services Tax using computer hardware and software packages.	Ар	С	Seminar Presentation / Group Discussion				
CO5	Analyze case studies and real-life examples to understand practical challenges and solutions in GST compliance.	An	Р	Writing assignments				
CO6	compliance requirements.	С	Р	Viva Voce				
# - Fa	 * - 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			
		Purpose and Principles of audit	13				
	1	Definition of Audit	2]			
	2	Types of Audits in GST	1				
Ι	3	General provisions relating to determination of tax					
	4	4 Levy of late fee 5 Aims and objectives of Audit					
	5						
	6	Principles of audit	1				
		Different Steps of Audit	15				
	7	Selection for audit	2	1			
	8	Administrative / procedural arrangements for risk-based selection of auditees:	2				
	9	Assignment & team formation for audit:	2				
	10	Commencement of Audit	3	10			
II	11	Draft Audit Report and approval thereof	2	10			
	12	Knowledge of Form GST REG-06, GSTR1, GSTR2A, GSTR2B, GSTR3B, Form GST CMP – 08,	2				
	13	Form GST PMT –06 Payment Challan, DRC03,	1				
	14 Verification of input tax credit system from portal vis a vis books of accounts and its adjustments		1				
		GST Tax Accounting	10				
	15	Final Audit Report	2				
	16	Thematic Audit	2				
III	17	Administrative arrangement for conduct of Thematic audits.	2	20			
	18	Multi-locational Co-Audit	2				
	19	Administrative arrangement for Selection of Multi- location Co-Audits	2				
		Training and Capacity Building	7				
TT 7	20	Building knowledge on financial accounting	2	1			
IV	21	Audit in GST with reference to financial accounting	3	15			
	22	Cash Flow - The third important financial statement	2				
		Open Ended Module	12				
		Training: Relevant offline tools on GST portal.		1			
		Verification of input tax credit system from portal vis a		1			
V		vis books of accounts and its adjustments.					
		Every candidate will be assigned a project topic and					
		project mentor/ guide in order to get the practical					
		exposure about GST law and practice in India.					

Note: The course is divided into five modules, with four modules together having total 22 fixed units and one open-ended module with a variable number of units. There are total 48 instructional hours for the fixed modules and 12 hours for the open-ended one. Internal assessments (30 marks) are split between the open-ended module (10 marks) and the fixed modules (20 marks). The final exam, however, covers only the 22 units from the fixed modules. The 70 marks shown in the last column, distributed over the first four modules, are only for the external examination.

REFERENCE:

- 1. Ahuja, Girish and Gupta, Ravi. Systematic Approach to GST. Wolters Kluwer
- 2. Sekhon, Shailinder., GST....Unlocking the complexities of Indirect taxes. Published by Sumirat publication and Bookman, New delhi.
- 3. Bansal, K. M., GST & Customs Law, Taxman Publication.
- 4. Mehrotra H.C. and Agarwal, V.P. Goods and Services Tax and Customs. Sahitya BhawanPublications.
- 5. Saha, R.G. Shah, Divyesh and Devi, Usha. Goods and Service Tax. HPH 6. Datey, V. S. All about GST, A Complete Guide to Model GST Law. Taxman Publications

ADDITIONAL READINGS

- 1. Government of India. (n.d.). Criteria for GST Registration. GST Council. Retrieved from https://www.gst.gov.in/ (Module II)
- 2. Central Board of Indirect Taxes and Customs. (n.d.). Procedure for GST Registration. Goods & Services Tax Network. Retrieved from https://www.gstn.org/
- 3. Ministry of Finance, Government of India. (n.d.). Types of Invoices Under GST. Goods & Services Tax Network. Retrieved from https://www.gstn.org/
- 4. Central Board of Indirect Taxes and Customs. (n.d.). How to File GST Returns: Step-by-Step Guide. Goods & Services Tax Network. Retrieved from https://www.gstn.org/

	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6	PSO7	PSO8	PSO9
CO 1	2	1	-	-	-	-	-	-	-
CO 2	-	-	2	-	-	-	2	-	-
CO 3	-	-	-	-	-	-	3	-	-
CO 4	-	1	I	-	-	-	-	-	3
CO 5	3	-	-	-	-	-	-	2	3
CO 6	-	-	-	-	-	-	-	-	3

MAPPING OF COS WITH PSOS:

CORRELATION LEVELS:

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

ASSESSMENT RUBRICS:

- Quiz / Assignment/ Viva Voce/ Discussion / Seminar (10%)
- Internal Exam (10%)
- Assignments (10%)
- Final Exam (70%)

	Internal Exam	Quiz / Assignment/ Viva Voce/ Discussion / Seminar	Practical Assignment	End Semester Examination
CO 1	\checkmark	\checkmark		\checkmark
CO 2	\checkmark		\checkmark	\checkmark
CO 3	\checkmark	\checkmark	\checkmark	\checkmark
CO 4	\checkmark	\checkmark	\checkmark	\checkmark
CO 5		\checkmark	\checkmark	
CO 6			\checkmark	

Programme	B.A. Economics with	h Foreign Tra	ade					
Course Title	ADVANCED TOPI	ADVANCED TOPICS IN GST: ANTI-EVASION MEASURES AND						
	CASE STUDIES							
Type of Course	Vocational 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	Course on GST of 1	evel 200 – 2	.99					
Course Summary	This course provide	es a compre	hensive know	wledge on tax	x evasion,			
	offences, penalties, a	appeals and i	revisions and	also discusse	es the case			
	studies related to tax	evasion						

CO	CO Statement	Cognitive Level*	Knowledge Category#	Evaluation Tools used				
CO1	Understand the concept of Tax evasion of GST, various situations evasion of GST and anti-evasion measures under GST regime	R	F	Instructor- created exams / Quiz				
CO2	Gain knowledge in Offences and Penalties under GST Laws, Punishment for offences and ethics under GST	U	С	Seminar Presentation / Group Discussion				
CO3	Understand appeals to appellate authority, tribunal and Powers of revision authority	U	Р	Seminar Presentation / Group Discussion				
CO4	Analyze the Problem of tax evasion in India	An	Р	Seminar Presentation / Group Discussion				
CO5	Explore the Lags leading to tax frauds	An	Р	Writing assignments				
CO6	Stay updated on tax evasion cases in India and related issues	Р	Viva Voce					
# - Fa	* - 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	10	
Ι	1	Meaning of Tax evasion	2	1
	2	Identification of tax evasion	2	15
	3	Tax evasion in various situations	3	
	4	Anti-evasion measures under GST regime	3	
		Offences and Penalties under GST Laws	15	
	5	Offences under GST Laws	2	
TT	6	Penalties for certain offences	3	
II	7	Punishment for offences	3	22
	8	Power to impose and wave penalty	2	1
	9	Compounding of offences	2	1
	10	Ethics under GST	3	1
		Appeals and Revisions	12	
	11	Appeals to appellate authority	2	
	12	Powers of revision authority	2	
III	13	Appellate tribunal under GST laws	2	17
	14	Appeal to appellate tribunal	2	
	15	Appeal to Supreme court and High court	2	
	16	Appeal not to be filed in certain cases	2	
		Case Studies	11	
	17	Problem of tax evasion in India	2	
	18	Case studies related to tax evasion	3	
IV	19	Lags leading to tax frauds	2	16
	20	Role of Professionals in avoiding prosecution	1	1
	21	Role of Professionals in avoiding payment of Penalties	1	
	22	E- invoicing and reducing tax evasion	2	
		Open Ended Module	12	4
V	23	Advance Ruling		4
	24	Discussion on tax evasion cases in India and related issues		

Note: The course is divided into five modules, with four modules together having total 22 fixed units and one open-ended module with a variable number of units. There are total 48 instructional hours for the fixed modules and 12 hours for the open-ended one. Internal assessments (30 marks) are split between the open-ended module (10 marks) and the fixed modules (20 marks). The final exam, however, covers only the 22 units from the fixed modules. The 70 marks shown in the last column, distributed over the first four modules, are only for the external examination.

REFERENCE:

- 1. Shivakumar Upavasi , GST FOR BEGINNERS : FOUNDATIONS FOR GST Paperback 23 July 2021
- 2. Sumit Agarwal, Shashwat Alok, Shiv Dixit & Tejaswi Velayudhan, Impact of the GST on Corporate Tax Evasion: Evidence from Indian Tax Records, March 8, 2022, Indian Statistical Institute, Delhi
- 3. https://icmai.in/TaxationPortal/upload/IDT/Article_GST/210.pdf
- $4. \ https://fpibengaluru.karnataka.gov.in/storage/pdf-files/Intern\% 20 Reports$

ADDITIONAL READINGS

- 1. Government of India. (n.d.). Criteria for GST Registration. GST Council. Retrieved from https://www.gst.gov.in/ (Module II)
- 2. Central Board of Indirect Taxes and Customs. (n.d.). Procedure for GST Registration. Goods & Services Tax Network. Retrieved from https://www.gstn.org/
- 3. Ministry of Finance, Government of India. (n.d.). Types of Invoices Under GST. Goods & Services Tax Network. Retrieved from https://www.gstn.org/
- 4. Central Board of Indirect Taxes and Customs. (n.d.). How to File GST Returns: Step-by-Step Guide. Goods & Services Tax Network. Retrieved from https://www.gstn.org/

	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6	PSO7	PSO8	PSO9
CO 1	2	1	-	-	-	-	-	-	-
CO 2	3	-	2	-	-	-	-	-	-
CO 3	3	2	-	-	-	-	-	-	-
CO 4	-	1	-	-	-	-	-	3	2
CO 5	-	-	2	-	-	-	-	2	3
CO 6	-	-	-	-	-	-	-	3	3

MAPPING OF COS WITH PSOS:

CORRELATION LEVELS:

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

ASSESSMENT RUBRICS:

- Quiz / Assignment/ Viva Voce/ Discussion / Seminar (10%)
- Internal Exam (10%)
- Assignments (10%)
- Final Exam (70%)

	Internal Exam	Quiz / Assignment/ Viva Voce/ Discussion / Seminar	Practical Assignment	End Semester Examination
CO 1	\checkmark	\checkmark		\checkmark
CO 2	\checkmark		\checkmark	\checkmark
CO 3	\checkmark	\checkmark	\checkmark	\checkmark
CO 4	\checkmark	\checkmark	\checkmark	\checkmark
CO 5		\checkmark	\checkmark	
CO 6			\checkmark	

Programme		B.A. Economics with Foreign Trade					
Course Title	FUNDAMENTALS C	FUNDAMENTALS OF DATA SCIENCE IN ECONOMICS					
Type of Course	Vocational Minor						
Semester	Ι	Ι					
Academic Level	100 - 199	100 - 199					
Course Details	Credit	Lecture per week	Tutorial per week	Practical per week	Total Hours		
	4	4	-	-	60		
Pre-requisites	Basic economics cour	se of $0 - 99$ lev	vel				
Course Summary		This course focuses on various aspects of income tax calculations, basic components of income, tax deductions, tax exemptions and tax regimes.					

CO	CO Statement	Cognitive Level*	Knowledge Category#	Evaluation Tools used				
CO1	To understand the relevance of data science in economics.	U	С	Instructor-created exams / Practical Assignment				
CO2	To understand the basic elements of how data is collected, managed and stored for data.	U	F	Writing assignments / Quiz				
CO3	To analyze data with a variety of statistical methods and models	An	Р	Observation of Practical Skills / Group Discussion				
CO4	To analyze data using various visualization techniques.	An	Р	Observation of Practical Skills / Home Assignments				
CO5	Apply contemporary models, such as machine learning, AI etc to solve economic problems	Ap	Р	Practical Skills / Instructor-created exams				
CO6	To develop an analytical, interdisciplinary understanding of concepts, theories and associate them with real life situations	С	М	Practical Assignment Viva Voce				
# - Fa	 * - 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	Mark
		Introduction to Data Science	10	
	1	Definition, Big Data and Data Science, Datafication.	2	
	2	Data Science Profile, Meta-Definition	2	
Ι	3	Statistical Inference	2	15
	4	Populations and Samples	1	
	5	Philosophy of Exploratory Data Analysis	1	
	6	The Data Science Process	2	
		Mathematical Tools	16	
	7	Matrices to represent relations between data	3	
	8	linear algebraic operations on matrices	3	22
II	9	Descriptive Statistics	4	23
	10	Probability	3	
	11	Correlation Analysis.	3	
		Data Munging	10	
	12	Properties of Data	2	
III	13	Languages for Data Science	2	15
111	14	Collecting Data	2	15
	15	Cleaning Data	2	
	16	Crowdsourcing	2	
		Statistical Analysis	12	
	17	Sampling from Distributions	2	
	18	Statistical Distributions	2	
IV	19	Statistical Significance	2	17
	20	Permutation Tests P-values	2	
	21	P-values	2	
	22	Visualizing Data	2	
		Open Ended Module	12	
		Linear Regression Better Regression Models,		
V		Regression as Parameter Fitting		
		Better Regression Models		
		Regression as Parameter Fitting		

Note: The course is divided into five modules, with four modules together having total 22 fixed units and one open-ended module with a variable number of units. There are total 48 instructional hours for the fixed modules and 12 hours for the open-ended one. Internal assessments (30 marks) are split between the open-ended module (10 marks) and the fixed modules (20 marks). The final exam, however, covers only the 22 units from the fixed modules. The 70 marks shown in the last column, distributed over the first four modules, are only for the external examination.

REFERENCE:

- 1. Steven S. Skiena, "The Data Science Design Manual", Springer 2017.
- 2. Rachel Schutt & O'neil, "Doing Data Science", Straight Talk from The Frontline O'REILLY, ISBN:978-1-449-35865-5, 1st edition, October 2013.
- 3. Joel Grus," Data Science from Scratch" First Edition, April 2015 2. Gareth James, Daniela Witten, Trevor Hatie, RoberstTibhirani, "An Introduction to Statistical Learning-with Applications in R", 2013

MAPPING OF COS WITH PSOS:

	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6	PSO7	PSO8	PSO9
CO 1	3	-	-	-	-	-	-	-	-
CO 2	3	-	-	-	-	-	-	-	-
CO 3	-	-	-	3	-	-	2	-	-
CO 4	-	-	-	2	-	-	3	-	-
CO 5	-	-	-	2	-	-	2	3	-
CO 6	-	-	-	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
- Final Exam

	Internal Exam	Quiz / Assignment/ Viva Voce/ Discussion / Seminar	Practical Assignment	End Semester Examination
CO 1	\checkmark	\checkmark		\checkmark
CO 2	\checkmark	\checkmark		\checkmark
CO 3	\checkmark	\checkmark		\checkmark
CO 4	\checkmark	\checkmark		\checkmark
CO 5		\checkmark	\checkmark	
CO 6		\checkmark	\checkmark	

Programme	B.A. Economics with Foreign Trade				
Course Title	CROSS SECTION DATA ANALYSIS IN ECONOMICS				
Type of Course	Vocational Minor				
Semester	II				
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 of $0 - 99$ level				
Course Summary	This course aims to equip students with the economic cross-section data				
	analysis				

CO	CO Statement	Cognitive Level*	Knowledge Category#	Evaluation Tools used		
CO1	Students will understand the principles underlying regression analysis, including the simple regression model, multiple regression analysis, and the assumptions of OLS estimation.	U	С	Instructor-created exams / Quiz/ Assignments		
CO2	Students will apply econometric techniques to estimate causal effects, conduct regression analysis, and interpret the results using statistical software.	An	С	Instructor-created exams /Practical Assignment		
CO3	Students will analyze the strengths and limitations of different econometric models, assess the validity of causal claims, and identify potential sources of bias or error in regression analysis.	Ap	С	Instructor-created exams /Seminar Presentation / Group Discussion		
CO4	Students will evaluate the reliability of regression results, critically assess empirical research studies, and determine the effectiveness of econometric techniques in addressing economic questions.	С	С	Instructor-created exams / Home Assignments		
CO5	Students will design and implement regression models to analyze specific economic phenomena, generate new research questions, and propose innovative econometric approaches to address them.	С	Р	Writing assignments/ Seminar/ 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)					

Module	Unit	Content	Hrs	Marks	
	Economic Questions and Data				
Ι	1	Economic questions	2		
	2	Causal effects idealized experiments -estimation of causal effects-	2	9	
	2	forecasting and causality	2		
	3	Structure of data-Experimental versus observational data-Cross-section			
		data-Time series data-Pooled cross section data-Panel or longitudinal	2		
		data			
		The Simple Regression Model	16		
	4	Definition of the Simple Regression Model	1	1	
	5	Deriving the Ordinary Least Squares Estimates	2		
		Properties of OLS on Any Sample of Data-Fitted Values and Residuals-			
	6	Algebraic Properties of OLS Statistics	3		
II	7	Goodness-of-Fit	2	23	
		Units of Measurement and Functional Form-The Effects of Changing	_		
	8	Units of Measurement on OLS Statistics-Incorporating Nonlinearities	3		
		in Simple Regression			
	9	Expected Values and Variances of the OLS Estimators-	2		
	10	Regression through the Origin and Regression on a Constant	1		
		Multiple Regression Analysis: Estimation	16		
	11	The Model with Two Independent Variables -The Model with k	0	23	
	11	Independent Variables	2		
		Obtaining the OLS Estimates-Interpreting the OLS Regression			
	10	Equation- On the Meaning of "Holding Other Factors Fixed" in			
	12	Multiple Regression- OLS Fitted Values and Residuals -A "Partialling	4		
		Out" Interpretation of Multiple Regression			
III	13	Comparison of Simple and Multiple Regression Estimates- Goodness-	3		
		of-Fit-Regression through origin	5		
	14	The Expected Value of the OLS Estimators- including irrelevant	2		
		variable-omitted variable bias	2		
		The Variance of the OLS Estimators- The Components of the OLS			
	15	Variances.	3		
		Multicollinearity- Variances in Misspecified Models- Estimating Standard Errors of the OLS Estimators			
	16	Efficiency of OLS: The Gauss-Markov Theorem	2		
	Multiple Regression Analysis: Inference				
	17	10 2			
	17	Sampling Distributions of the OLS Estimators Testing Hypotheses about a Single Population Parameter: The t Test	2		
	18	Confidence Intervals	1		
IV	17	Testing Hypotheses about a Single Linear Combination of the	1	15	
	20	Parameters	2		
	21	Testing Multiple Linear Restrictions: The F Test	2		
	22	Reporting Regression Results	1		
			1		

		Open Ended Module	12	
N7	1	Data collection		
v	2	Analysis of data using software like SPSS		
	3	Interpret the result		

Note: The course is divided into five modules, with four modules together having total 22 fixed units and one open-ended module with a variable number of units. There are total 48 instructional hours for the fixed modules and 12 hours for the open-ended one. Internal assessments (30 marks) are split between the open-ended module (10 marks) and the fixed modules (20 marks). The final exam, however, covers only the 22 units from the fixed modules. The 70 marks shown in the last column, distributed over the first four modules, are only for the external examination.

REFERENCE:

- 1. Wooldridge, Jeffrey M. "Introductory econometrics, Wooldridge." (Sixth edn) (Module1,2,3,&4).
- Stock, James H., and Mark W. Watson. *Introduction to econometrics*. Pearson, 2020. (Module 1)

ADDITIONAL READINGS

- 1. Gujarati, Damodar. *Econometrics by example*. Bloomsbury Publishing, 2014.
- 2. Gujarati, Damodar N., and Dawn C. Porter. Basic econometrics. McGraw-hill, 2009.
- 3. Dougherty, Christopher. Introduction to econometrics. Oxford university press, USA, 2011.

	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6	PSO7	PSO 8	PSO9
CO 1	2	-	-	-	-	-	-	-	-
CO 2	-	2	-	-	-	-	-	-	-
CO 3	-	1	-	1	1	-	3	-	-
CO 4	-	2	-	3	1	2	-	2	3
CO 5	-	3	1	3	1	-	-	-	2

MAPPING OF COS WITH PSOS:

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	\checkmark	\checkmark		\checkmark
CO 2	\checkmark	\checkmark	\checkmark	\checkmark
CO 3	\checkmark	\checkmark		\checkmark
CO 4	\checkmark	\checkmark	\checkmark	\checkmark
CO 5		\checkmark	\checkmark	

Programme	B.A. Economics with	h Foreign Tr	ade		
Course Title	TIME SERIES DAT	ΓA ANALY	SIS IN ECO	NOMICS	
Type of Course	Vocational 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	Econometrics course of 100 – 199				
Course Summary	This course aims to	equip studer	nts with the e	economic data	a analysis

CO1Students will understand the principles underlying regression analysis and the properties of OLS estimation.UCInstructor- created exams Quiz/ AssignmentsCO2Students will apply econometric techniques to estimate causal effects, conduct regression analysis, and interpret the results using statistical software.AnCInstructor- created exams /Practical AssignmentCO3Students will analyse the strengths and limitations of different econometric models, assess the validity of causal claims, and identify potential sources of bias or error in regression results, critically assess empirical research studies, and determine the effectiveness of econometric techniques in addressing econometric techniques in addressing economic questions.Instructor- created exams /Practical AssignmentCO4Students will evaluate the reliability of regression results, critically assess econometric techniques in addressing economic questions.CCCO4Students will design and implement regression models to analyse specific economic phenomena, generate newMriting assignments/	СО	CO Statement	Cognitive Level*	Knowledge Category#	Evaluation Tools used
CO2techniques to estimate causal effects, conduct regression analysis, and interpret the results using statistical software.AnCInstructor- created exame /Practical AssignmentCO3Students will analyse the strengths and limitations of different econometric models, assess the validity of causal claims, and identify 	CO1	principles underlying regression analysis and the properties of OLS estimation.	U		created exams / Quiz/
CO3and limitations of different econometric models, assess the validity of causal claims, and identify potential sources of bias or error in regression analysis.ApCcreated exams /Seminar Presentation / Group DiscussionCO4Students will evaluate the reliability of regression results, critically assess 	CO2	techniques to estimate causal effects, conduct regression analysis, and interpret the results using statistical	An	С	created exams /Practical
CO4of regression results, critically assess empirical research studies, and determine the effectiveness of econometric techniques in addressing economic questions.CCInstructor- created exams Home AssignmentsC05Students will design and implement regression models to analyse specific economic phenomena, generate new 	CO3	and limitations of different econometric models, assess the validity of causal claims, and identify potential sources of bias or error in	Ар	С	created exams /Seminar Presentation / Group
CO5regression models to analyse specific economic phenomena, generate new research questions, and propose innovative econometric approaches to address them.CPassignments/ Seminar/ presentation/ Group activities* - Remember (R), Understand (U), Apply (Ap), Analyse (An), Evaluate (E), Create (C)	CO4	of regression results, critically assess empirical research studies, and determine the effectiveness of econometric techniques in addressing	С	С	created exams /
	CO5	regression models to analyse specific economic phenomena, generate new research questions, and propose innovative econometric approaches	С	Р	assignments/ Seminar/ presentation/ Group
Metacognitive Knowledge (M)	# - Fact				

Image:	Module			Hrs	Marks
I 1 1 1 1 2 Cross - Sectional Data 1 1 1 3 Time Series Data 1 1 1 4 Pooled Cross Sections 1 1 1 5 Panel or Longitudinal Data 1 1 1 6 The Nature of Time Series Data 2 2 7 Examples of Time Series Regression Models 3 3 9 Functional Form, Dummy Variables, and Index Numbers 4 10 Trends and Seasonality 4 10 Trends and Seasonality 4 11 Stationary and Weakly Dependent Time Series Data 16 11 Stationary and Weakly Dependent Time Series Models 3 12 Asymptotic Properties of OLS 4 13 Using Highly Persistent Time Series in Regression Analysis 4 14 Dynamically Complete Models and the Absence of Serial 2 14 Drorelation and Heteroskedasticity in Time Series 11 15 The Homoskedasticity Assumption for Time Series Models 3 15 The Homoskedastic			Economic Data	5	
Image:	I	1	The structure of Economic Data	1	
3 Time Series Data 1 4 Pooled Cross Sections 1 5 Panel or Longitudinal Data 1 6 The Nature of Time Series Data 16 6 The Nature of Time Series Data 2 7 Examples of Time Series Regression Models 3 8 Finite Sample Properties of OLS under Classical Assumptions 3 9 Functional Form, Dummy Variables, and Index Numbers 4 10 Trends and Seasonality 4 11 Stationary and Weakly Dependent Time Series Data 16 11 Stationary and Weakly Dependent Time Series in Regression Analysis 4 14 Dynamically Complete Models and the Absence of Serial Correlation 2 15 The Homoskedasticity Assumption for Time Series Models 3 16 Properties of OLS with Serially Correlated Errors 1 17 Serial Correlation in the Presence of Lagged Dependents Variables 1 18 Testing for serial correlation 2 2 19 Correcting or Serial Correlation with Strictly Exogenous Regressors 2 2 20 Differencing and Serial Correlation <td>2</td> <td>Cross – Sectional Data</td> <td>1</td> <td>8</td>		2	Cross – Sectional Data	1	8
5 Panel or Longitudinal Data 1 Basic Regression Analysis with Time Series Data 16 6 The Nature of Time Series Data 2 7 Examples of Time Series Regression Models 3 8 Finite Sample Properties of OLS under Classical Assumptions 3 9 Functional Form, Dummy Variables, and Index Numbers 4 10 Trends and Seasonality 4 Further Issues in Using OLS with Time Series Data 16 11 Stationary and Weakly Dependent Time Series Data 16 11 Stationary and Weakly Dependent Time Series In Analysis 4 12 Asymptotic Properties of OLS 4 13 Using Highly Persistent Time Series in Regression Analysis 4 14 Dynamically Complete Models and the Absence of Serial 2 14 Droperties of OLS with Serially Correlated Errors 1 15 The Homoskedasticity Assumption for Time Series Models 3 16 Properties of Serial Correlation in the Presence of Lagged Dependents 1 17 Variables 1 1 18 Testing for Serial Correlation with Stricitly Exogenous <		3	Time Series Data	1	Ŭ
II Basic Regression Analysis with Time Series Data 16 6 The Nature of Time Series Data 2 7 Examples of Time Series Regression Models 3 8 Finite Sample Properties of OLS under Classical Assumptions 3 9 Functional Form, Dummy Variables, and Index Numbers 4 10 Trends and Seasonality 4 11 Stationary and Weakly Dependent Time Series Data 16 11 Stationary and Weakly Dependent Time Series In Analysis 4 12 Asymptotic Properties of OLS 4 13 Using Highly Persistent Time Series in Regression Analysis 4 14 Correlation 2 15 The Homoskedasticity Assumption for Time Series Models 3 16 Properties of OLS with Serially Correlated Errors 1 17 Serial Correlation in the Presence of Lagged Dependents 1 18 Testing for Serial Correlation with Strictly Exogenous 2 19 Regressors 2 20 Differencing and Serial Correlation 2 21 Serial Correlation – Robust Inference after OLS 1 <td>4</td> <td>Pooled Cross Sections</td> <td>1</td> <td></td>		4	Pooled Cross Sections	1	
II6The Nature of Time Series Data27Examples of Time Series Regression Models38Finite Sample Properties of OLS under Classical Assumptions39Functional Form, Dummy Variables, and Index Numbers410Trends and Seasonality4Further Issues in Using OLS with Time Series Data11Stationary and Weakly Dependent Time Series Data1611Stationary and Weakly Dependent Time Series312Asymptotic Properties of OLS413Using Highly Persistent Time Series in Regression Analysis414Dynamically Complete Models and the Absence of Serial Correlation215The Homoskedasticity Assumption for Time Series Models3Serial Correlation and Heteroskedasticity in Time Series11Serial Correlation in the Presence of Lagged Dependents Variables113Testing for serial correlation214Correcting for Serial Correlation with Strictly Exogenous Regressors219Correcting for Serial Correlation220Differencing and Serial Correlation221Serial Correlation – Robust Inference after OLS122Heteroskedasticity in Time Series Regressions223Upper Ended Module1224Analysis of data using software like SPSS1		5	Panel or Longitudinal Data	1	
II7Examples of Time Series Regression Models3238Finite Sample Properties of OLS under Classical Assumptions339Functional Form, Dummy Variables, and Index Numbers410Trends and Seasonality411Stationary and Weakly Dependent Time Series Data1611Stationary and Weakly Dependent Time Series Data1612Asymptotic Properties of OLS413Using Highly Persistent Time Series in Regression Analysis414Dynamically Complete Models and the Absence of Serial Correlation215The Homoskedasticity Assumption for Time Series Models316Properties of OLS with Serially Correlated Errors1117Serial Correlation in the Presence of Lagged Dependents Variables118Testing for serial correlation220Differencing and Serial Correlation221Serial Correlation – Robust Inference after OLS122Heteroskedasticity in Time Series Regressions223Qpon Ended Module121Data collection12			Basic Regression Analysis with Time Series Data	16	
II8Finite Sample Properties of OLS under Classical Assumptions3239Functional Form, Dummy Variables, and Index Numbers4410Trends and Seasonality4Further Issues in Using OLS with Time Series Data1611Stationary and Weakly Dependent Time Series312Asymptotic Properties of OLS413Using Highly Persistent Time Series in Regression Analysis414Dynamically Complete Models and the Absence of Serial Correlation215The Homoskedasticity Assumption for Time Series Models316Properties of OLS with Serially Correlated Errors1117Serial Correlation in the Presence of Lagged Dependents Variables118Testing for serial correlation with Strictly Exogenous Regressors220Differencing and Serial Correlation221Serial Correlation – Robust Inference after OLS122Heteroskedasticity in Time Series Regressions223QDifferencing and Serial Correlation224Heteroskedasticity in Time Series Regressions225Uteroskedasticity in Time Series Regressions226Differencing and Serial Correlation227Veriables128Heteroskedasticity in Time Series Regressions229Differencing and Serial Correlation220Differencing and Serial Correlation221Serial Correlation – Robust Inference after OLS </td <td></td> <td>6</td> <td>The Nature of Time Series Data</td> <td>2</td> <td></td>		6	The Nature of Time Series Data	2	
8Finite Sample Properties of OLS under Classical Assumptions39Functional Form, Dummy Variables, and Index Numbers410Trends and Seasonality410Further Issues in Using OLS with Time Series Data1611Stationary and Weakly Dependent Time Series312Asymptotic Properties of OLS413Using Highly Persistent Time Series in Regression Analysis414Dynamically Complete Models and the Absence of Serial Correlation215The Homoskedasticity Assumption for Time Series Models316Properties of OLS with Serially Correlated Errors1116Properties of OLS with Serially Correlated Errors117Serial Correlation in the Presence of Lagged Dependents Variables118Testing for serial correlation with Strictly Exogenous Regressors220Differencing and Serial Correlation221Serial Correlation – Robust Inference after OLS122Heteroskedasticity in Time Series Regressions2231Data collection12	тт	7	Examples of Time Series Regression Models	3	22
10Trends and Seasonality4International Seasonality4International Seasonality411Stationary and Weakly Dependent Time Series Data1611Stationary and Weakly Dependent Time Series312Asymptotic Properties of OLS413Using Highly Persistent Time Series in Regression Analysis414Dynamically Complete Models and the Absence of Serial Correlation215The Homoskedasticity Assumption for Time Series Models3Serial Correlation and Heteroskedasticity in Time Series16Properties of OLS with Serially Correlated Errors117Serial Correlation in the Presence of Lagged Dependents Variables118Testing for serial correlation with Strictly Exogenous Regressors220Differencing and Serial Correlation221Serial Correlation – Robust Inference after OLS122Heteroskedasticity in Time Series Regressions2Open Ended Module121Data collection2Analysis of data using software like SPSS1	11	8	Finite Sample Properties of OLS under Classical Assumptions	3	23
Further Issues in Using OLS with Time Series Data1611Stationary and Weakly Dependent Time Series312Asymptotic Properties of OLS413Using Highly Persistent Time Series in Regression Analysis414Dynamically Complete Models and the Absence of Serial Correlation215The Homoskedasticity Assumption for Time Series Models3Serial Correlation and Heteroskedasticity in Time Series1116Properties of OLS with Serially Correlated Errors117Serial Correlation in the Presence of Lagged Dependents Variables118Testing for serial correlation with Strictly Exogenous Regressors220Differencing and Serial Correlation221Serial Correlation – Robust Inference after OLS122Heteroskedasticity in Time Series Regressions2V1Data collection121Data collection12		9	Functional Form, Dummy Variables, and Index Numbers	4	
IIIStationary and Weakly Dependent Time Series312Asymptotic Properties of OLS413Using Highly Persistent Time Series in Regression Analysis414Dynamically Complete Models and the Absence of Serial Correlation215The Homoskedasticity Assumption for Time Series Models3Serial Correlation and Heteroskedasticity in Time Series1116Properties of OLS with Serially Correlated Errors117Serial Correlation in the Presence of Lagged Dependents Variables118Testing for serial correlation with Strictly Exogenous Regressors220Differencing and Serial Correlation221Serial Correlation – Robust Inference after OLS122Heteroskedasticity in Time Series Regressions210Data collection121Data collection122Analysis of data using software like SPSS1		10	Trends and Seasonality	4	
III12Asymptotic Properties of OLS4413Using Highly Persistent Time Series in Regression Analysis42314Dynamically Complete Models and the Absence of Serial Correlation2215The Homoskedasticity Assumption for Time Series Models3Serial Correlation and Heteroskedasticity in Time Series Regressions1116Properties of OLS with Serially Correlated Errors117Serial Correlation in the Presence of Lagged Dependents Variables118Testing for serial correlation with Strictly Exogenous Regressors220Differencing and Serial Correlation221Serial Correlation – Robust Inference after OLS122Heteroskedasticity in Time Series Regressions223Open Ended Module121Data collection122Analysis of data using software like SPSS1				16	
III13Using Highly Persistent Time Series in Regression Analysis42314Dynamically Complete Models and the Absence of Serial Correlation2215The Homoskedasticity Assumption for Time Series Models3Serial Correlation and Heteroskedasticity in Time Series Regressions1116Properties of OLS with Serially Correlated Errors117Serial Correlation in the Presence of Lagged Dependents Variables118Testing for serial correlation with Strictly Exogenous Regressors220Differencing and Serial Correlation221Serial Correlation – Robust Inference after OLS122Heteroskedasticity in Time Series Regressions2V1Data collection121Data collection12		11	Stationary and Weakly Dependent Time Series	3	
14Dynamically Complete Models and the Absence of Serial Correlation215The Homoskedasticity Assumption for Time Series Models3Serial Correlation and Heteroskedasticity in Time Series Regressions1116Properties of OLS with Serially Correlated Errors117Serial Correlation in the Presence of Lagged Dependents Variables118Testing for serial correlation219Correcting for Serial Correlation with Strictly Exogenous Regressors220Differencing and Serial Correlation221Serial Correlation – Robust Inference after OLS122Heteroskedasticity in Time Series Regressions2V1Data collection121Data collection12		12	Asymptotic Properties of OLS	4	
14Correlation215The Homoskedasticity Assumption for Time Series Models3Serial Correlation and Heteroskedasticity in Time Series Regressions1116Properties of OLS with Serially Correlated Errors116Properties of OLS with Serially Correlated Errors117Serial Correlation in the Presence of Lagged Dependents Variables118Testing for serial correlation219Correcting for Serial Correlation with Strictly Exogenous Regressors220Differencing and Serial Correlation221Serial Correlation – Robust Inference after OLS122Heteroskedasticity in Time Series Regressions2V1Data collection121Data collection12	III	13		4	23
15The Homoskedasticity Assumption for Time Series Models3Serial Correlation and Heteroskedasticity in Time Series Regressions1116Properties of OLS with Serially Correlated Errors116Properties of OLS with Serially Correlated Errors117Serial Correlation in the Presence of Lagged Dependents Variables118Testing for serial correlation219Correcting for Serial Correlation with Strictly Exogenous Regressors220Differencing and Serial Correlation221Serial Correlation – Robust Inference after OLS122Heteroskedasticity in Time Series Regressions2V1Data collection121Data collection12		14		2	
Serial Correlation and Heteroskedasticity in Time Series Regressions1116Properties of OLS with Serially Correlated Errors116Properties of OLS with Serially Correlated Errors117Serial Correlation in the Presence of Lagged Dependents Variables118Testing for serial correlation219Correcting for Serial Correlation with Strictly Exogenous Regressors220Differencing and Serial Correlation221Serial Correlation – Robust Inference after OLS122Heteroskedasticity in Time Series Regressions2V1Data collection121Data collection22Analysis of data using software like SPSS1		15		3	
16Properties of OLS with Serially Correlated Errors117Serial Correlation in the Presence of Lagged Dependents Variables118Testing for serial correlation219Correcting for Serial Correlation with Strictly Exogenous Regressors220Differencing and Serial Correlation221Serial Correlation – Robust Inference after OLS122Heteroskedasticity in Time Series Regressions2V1Data collection121Data collection12Analysis of data using software like SPSS1			erial Correlation and Heteroskedasticity in Time Series	_	
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19Correcting for Serial Correlation with Strictly Exogenous Regressors220Differencing and Serial Correlation221Serial Correlation – Robust Inference after OLS122Heteroskedasticity in Time Series Regressions2Open Ended Module1Data collection2Analysis of data using software like SPSS		17	Serial Correlation in the Presence of Lagged Dependents	1	
19 Regressors 2 20 Differencing and Serial Correlation 2 21 Serial Correlation – Robust Inference after OLS 1 22 Heteroskedasticity in Time Series Regressions 2 Open Ended Module 1 Data collection 2 Analysis of data using software like SPSS	IV	18	Testing for serial correlation	2	16
21 Serial Correlation – Robust Inference after OLS 1 22 Heteroskedasticity in Time Series Regressions 2 Open Ended Module 12 1 Data collection 1 2 Analysis of data using software like SPSS 1		19		2	
22 Heteroskedasticity in Time Series Regressions 2 Open Ended Module 12 1 Data collection 2 Analysis of data using software like SPSS		20	Differencing and Serial Correlation	2	
Open Ended Module 12 1 Data collection 2 Analysis of data using software like SPSS		21	Serial Correlation – Robust Inference after OLS	1	
I Data collection 2 Analysis of data using software like SPSS		22	Heteroskedasticity in Time Series Regressions	2	
V 2 Analysis of data using software like SPSS			Open Ended Module	12	
2 Analysis of data using software like SPSS	T 7	1	Data collection		
3 Interpret the result	V	2	Analysis of data using software like SPSS		
		3	Interpret the result		

Note: The course is divided into five modules, with four modules together having total 22 fixed units and one open-ended module with a variable number of units. There are total 48 instructional hours for the fixed modules and 12 hours for the open-ended one. Internal assessments (30 marks) are split between the open-ended module (10 marks) and the fixed modules (20 marks). The final exam, however, covers on ly the 22 units from the fixed modules. The 70 marks shown in the last column, distributed over the first four modules, are only for the external examination.

REFERENCE:

1. Wooldridge, Jeffrey M." Econometrics." (2011) (Module1,2,3,&4).

ADDITIONAL READINGS

1. Gujarati, Damodar N., and Sangeetha. *Basic econometrics*. McGraw-hill, (Fourth Edition) 2007.

	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6	PSO7	PSO 8	PSO9
CO 1	2	-	-	-	-	-	-	-	-
CO 2	-	2	-	-	-	-	-	-	-
CO 3	-	1	-	1	1	-	3	-	-
CO 4	-	2	-	3	1	2	-	2	3
CO 5	-	3	1	3	1	-	-	-	2

MAPPING OF COS WITH PSOS:

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	\checkmark	\checkmark		\checkmark
CO 2	\checkmark	\checkmark	\checkmark	\checkmark
CO 3	\checkmark	\checkmark		\checkmark
CO 4	\checkmark	\checkmark	\checkmark	\checkmark
CO 5		\checkmark	\checkmark	

Programme	B.A. Economics with	h Foreign Tra	ade			
Course Title	PANEL DATA ANA	LYSIS IN E	CONOMIC	CS		
Type of Course	Vocational 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	200 – 299 level course on Data Analysis in Economics					
Course Summary	This course aims to	This course aims to equip students with the economic data analysis				

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CO	CO Statement	Cognitive Level*	Knowledge Category#	Evaluation Tools used			
CO1	Students will understand the basics of panel data	U	С	Instructor-created exams / Quiz/ Assignments			
CO2	Students will understand the advantages and disadvantages of panel data	U	С	Instructor-created exams /Practical Assignment			
CO3	Students will learn econometric techniques for panel data	С	С	Instructor-created exams /Seminar Presentation / Group Discussion			
CO4	Students will study applications in various fields of economics	С	С	Instructor-created exams / Home Assignments			
CO5	Students will apply these techniques in appropriate data settings	Ар	С	Writing assignments/ Seminar/ 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)						

Module	Unit	Content	Hrs	Marks
		Introduction to Panel Data	8	
I	1	Panel data: Meaning	1	
	2	Panel data: Some examples	2	12
1	3	Panel data: Benefits and limitations	2	14
	4	Panel data: Brief History	1	
	5	Sources and types of panel data	2	
		Fundamentals of Panel Data: Basic Terminologies	12	
	6	Balanced and Unbalanced panel data	1	
	7	Compact Panel	1	
	8	Attrition	1	
II	9	Long Panel	1	17
	10	Short panel	1	17
	11	Homogeneous panel data models	2	
	12	Heterogeneous panel data models	2	
	13	Dynamic panel data model	2	
	14	Stationarity	1	
		Types of Panel Analytic Models: Basic	15	
III	15	Fixed effects model: Meaning and Examples	4	22
	16	Random effects model: Meaning and Examples	4	
		Simple Panel Data Methods	13	
	17	Policy analysis with Pooled Cross Sections	2	
	18	Two period panel data analysis	2	10
IV	19	Policy analysis with two period panel data analysis	2	19
	20	Differencing with more than two time periods	2	
	21	Advanced panel data methods	2	
	22	Test of hypothesis with panel data	3	
	1	Open Ended Module Data collection	12	
V	1			
	2	Analysis of data using software like SPSS		
	3	Interpret the result		

Note: The course is divided into five modules, with four modules together having total 22 fixed units and one open-ended module with a variable number of units. There are total 48 instructional hours for the fixed modules and 12 hours for the open-ended one. Internal assessments (30 marks) are split between the open-ended module (10 marks) and the fixed modules (20 marks). The final exam, however, covers only the 22 units from the fixed modules. The 70 marks shown in the last column, distributed over the first four modules, are only for the external examination.

REFERENCE:

- 1. Badi.H.Baltagi, Econometric analysis of Panel data , Springer, 2021
- 2. Manual Arellano, Panel Data Econometrics, OOxford University Press, 2003

ADDITIONAL READINGS

- 1. Donggyu Sul, Panel Data Econometrics, Taylor & Francis LTD.
- 2. Gujarati, Damodar. *Econometrics by example*. Bloomsbury Publishing, 2014.
- 3. Gujarati, Damodar N., and Dawn C. Porter. Basic econometrics. McGraw-hill, 2009.
- 4. Dougherty, Christopher. Introduction to econometrics. Oxford university press, USA, 2011.

	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6	PSO7	PSO 8	PSO9
CO 1	2	-	-	-	-	-	-	-	-
CO 2	-	2	-	-	-	-	-	-	-
CO 3	-	1	-	1	1	-	3	-	-
CO 4	-	2	-	3	1	2	-	2	3
CO 5	-	3	1	3	1	-	-	-	2

MAPPING OF COS WITH PSOS:

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	\checkmark	\checkmark		\checkmark
CO 2	\checkmark	\checkmark	\checkmark	\checkmark
CO 3	\checkmark	\checkmark		\checkmark
CO 4	\checkmark	\checkmark	\checkmark	\checkmark
CO 5		\checkmark	\checkmark	

Programme	B.A. Economics with	B.A. Economics with Foreign Trade				
Course Title	APPLIED ECONON	METRICS A	ND DATA M	INING		
Type of Course	Vocational Minor					
Semester	Ι					
Academic Level	100 - 199	100 - 199				
Course Details	Credit	Lecture per week	Tutorial per week	Practical per week	Total Hours	
	4	4	-	-	60.	
Pre-requisites	Basic courses in Econ	Basic courses in Economics and Statistics of level 0 – 99 level				
Course Summary	This course provides an opportunity for students to acquire knowledge about the applications of econometrics.					

COURSE OUTCOMES (CO):

CO	CO Statement	Cognitive Level*	Knowledge Category#	Evaluation Tools used
CO1	Students will Understand basic features of applied econometrics like methodology, concept and scope	U	С	Instructor-created exams / Quiz/ Assignments
CO2	Students will apply Econometric techniques to analyse consumer behaviour, including demand estimation, elasticity measurement, and Engel curve and demand forecasting	Ар	С	Instructor-created exams /Practical Assignment/ Group Discussion
CO3	Students will analyse the use of Applied econometrics techniques in production functions	An	С	Instructor-created exams / Practical Assignment
CO4	Students will demonstrate knowledge of fundamental concepts in data mining, including data preprocessing, and its working and acquire knowledge about different software in data mining	F	С	Instructor-created exams / Home Assignments/Seminar presentations
CO5	Students will understand the ethical and legal issues associated with data mining, including privacy concerns, data security, bias, and fairness.	С	Р	Writing assignments/ Seminar/ 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)

Module	Unit	Content	Hrs	Marks
		Introduction	8	
	1	Nature, Meaning and Scope of Applied Econometrics	2	
	2	Theoretical vs. Applied Econometrics	1	
Ι	3	Concept of Econometrics Model	1	12
	4	Methodology of Applied Econometrics	2	
	5	Properties of a good Econometric model	1	
	6	Limitations of a good Econometric model	1	
		Consumer Behaviour	10	
	7	Specification and estimation of demand functions	3	
II	8	Price elasticity estimation	3	14
	9	Engel curve.	2	
	10	Forecasting and decision making	2	
		Producer's Behaviour	15	
	11	Estimation of production function	3	
III	12	Cobb Douglas production function	3	22
	13	CES production function	3	22
	14	Cost function analysis	3	
	15	Measurement of partial and total factor productivity.	3	
		Data Mining	15	
	16	Data mining- concept and definition and objectives	1	
	17	Data mining- objectives	1	
IV	18	Benefits of data mining	1	22
1 1	19	Data mining process and its working	4	
	20	Different software's in data mining	3	
	21	Application of data mining in Economics	2	
	22	Big data analytics	3	
		Open Ended Module	12	
V	1	Hands on experience in data analysis		
v	2	Practical sessions using statistical software's		
	3	Interpretation and presentations of result		

Note: The course is divided into five modules, with four modules together having total 22 fixed units and one open-ended module with a variable number of units. There are total 48 instructional hours for the fixed modules and 12 hours for the open-ended one. Internal assessments (30 marks) are split between the open-ended module (10 marks) and the fixed modules (20 marks). The final exam, however, covers only the 22 units from the fixed modules. The 70 marks shown in the last column, distributed over the first four modules, are only for the external examination.

REFERENCE:

- 1. Raw and Miller. R.L., Applied Econometrics, PHI, Delhi, 1959.
- "Data Mining: Techniques, Concepts, and Applications" by Dunham, K.Srinivasa and K. Rajendra Prasad

ADDITIONAL READINGS

- 1. Gujarati, Damodar. Econometrics by example. Bloomsbury Publishing, 2014.
- 2. Gujarati, Damodar N., and Dawn C. Porter. Basic econometrics. McGraw-hill, 2009.
- 3. S. Sumathi and S. N. Sivanandam "Data Mining: Techniques and Applications" by
- 4. A.Colin Cameron and Pravin K. Trivedi "Microeconometrics: Methods and Applications"
- 5. Koutsoyiannis, A. (1977) Theory of Econometrics An Introductory Exposition Econometric Methods Macmillan

MAPPING OF COS WITH PSOS:

	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6	PSO7	PSO 8	PSO9
CO 1	3	-	-	-	-	-	-	-	-
CO 2	-	2	-	-	-	-	-	-	-
CO 3	-	1	-	1	1	-	3	2	1
CO 4	3	2	-	3	1	3	-	2	3
CO 5	-	3	1	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 /Survey
- Internal Exam
- Practical Assignments
- Final Exam (70%)

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

Programme	B.A. Economics w	B.A. Economics with Foreign Trade				
Course Title	BIG DATA APPL	ICATIONS	IN ECONC	OMICS		
Type of Course	Vocational Minor					
Semester	II					
Academic Level	100 - 199					
Course Details	Credit	Lecture	Tutorial	Practical	Total	
		per week	per week	per week	Hours	
	4	4	-	-	60	
Pre-requisites	Basic courses on E	conomics ar	nd Mathemat	tics of $0 - 99$	level	
Course Summary	The students will be able to identify the role of big data in economic					
	theory, using big data for prediction purpose and make capable for					
	helping private and	l public poli	cies			

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CO	CO Statement	Cognitive Level*	Knowledge Category#	Evaluation Tools used			
CO1	Understand the characteristics	U	F	Instructor-created			
	and sources of data			exams / Quiz			
CO2	Analyze different Motivating	Ар	С	Practical			
	applications			Assignment /			
				Observation of			
				Practical Skills			
CO3	Evaluate Architectures for big	E	Р	Seminar			
	data collection			Presentation /			
				Group Discussion			
CO4	Apply Big Data for Prediction	Ар	Р	Instructor-created			
	and Public Policy			exams / Home			
				Assignments			
CO5	Create programs for big data	С	Μ	Running			
	analytics			programs			
CO6	and problem-solving skills by applying the acquired	Ap	М	Viva Voce			
	knowledge to address complex						
	economic challenges in the						
	contemporary world.						
	* - Remember (R), Understand (U), Apply (Ap), Analyse (An), Evaluate (E), Create (C)						
	actual Knowledge(F) Conceptual	Knowledge (C)	Procedural Know	ledge (P)			
Meta	cognitive Knowledge (M)						

Module	Unit	Content	Hrs	Marks
		The Role of Economic Theory in Big Data	5	
	1	Characteristics of Big data.	1	
		The need for Analytics and Understanding Analytics:		
	2	Impact of analytics on business; Being analytically	2	
Ι	2	competitive; Models and algorithms in Analytics; The	2	8
		Analytics Methodology		
	3	Advantages of big data in the economic research and	1	
		policymaking		
	4	Challenges and risks in big data	1	
		Major Economic Data Sources	15	
	5	Sources of big data - National and International	2	
		India specific data sources- National Sample Survey		
	6	Organization (NSSO), Central Statistical Organization	3	
		(CSO)		
	7	Reserve Bank of India (RBI)- Handbook of Statistics on	3	
		Indian Economy- SEBI Handbook of Statistics		
II		Global data sources- UN Data-Monthly Bulletin of		22
		Statistics (MBS), SDG Indicators, United Nations		
	8	Conference on Trade and Development (UNCTAD),	3	
	-	World Development Indicators (WDI), IMF Databases-	-	
		The World Bank Data Catalog- Federal Reserve		
		Economic Database (FRED)		
	9	Motivating applications: web scraping, social media,	2	
	10	Google.	-	
	10	Real time data (Social media and the labour market)	2	
		Using Big Data to Advanced Economic Theory	14	
	11	Tool and Tech Landscape: A review of technology used in	2	
	11	data storage, data processing, and data science; Popular	3	
III	10	tools used in Data Science and when to use each		20
	12	Using Big Data for Prediction and Public Policy	2	
	13	Architectures for big data collection, analysis, and storage.	3	
	14	Using micro data to answer macroeconomic questions	3	
	15	Finance and high frequency trading Machine Learning Matheds	5 14	
	16	Machine Learning Methods Linear Regression Models and their applications	2	
	17	Logistics Regression Models and their applications	2	
	18	Time Series Forecasting	2	
	10	k-nearest-neighbors, classification and regression trees,		
IV	19	random forests.	2	20
1 *		An overview of neural networks and deep learning:		20
	20	Images, sounds, text, as sources of information.	2	
		Text mining: natural language processing, latent Dirichlet		
	21	allocation, sentiment analysis.	2	
	22	Big Data Analytics with R.	2	
		Open Ended Module	12	
V		NFHS data extraction techniques		
, ,		NSSO data extraction techniques		

Data pulling/extracting exercises, data cleaning exercises,	
data treatment exercises	

Note: The course is divided into five modules, with four modules together having total 22 fixed units and one open-ended module with a variable number of units. There are total 48 instructional hours for the fixed modules and 12 hours for the open-ended one. Internal assessments (30 marks) are split between the open-ended module (10 marks) and the fixed modules (20 marks). The final exam, however, covers only the 22 units from the fixed modules. The 70 marks shown in the last column, distributed over the first four modules, are only for the external examination.

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- 1. "Big Data: A Revolution That Will Transform How We Live, Work, and Think" by Viktor 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 Economics 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 analysis." 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 Association
- 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
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- 14. Seema Acharya, Subhasini Chellappan, "Big Data Analytics" Wiley 2015.
- 15. Sendhil Mullainathan and Jann Spiess, Machine Learning: An Applied Econometric Approach, 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	PSO7	PSO8	PSO9
CO 1	3	-	-	3	2	2	3	2	3
CO 2	1	1	1	2	2	2	3	2	3
CO 3	1	1	1	2	2	2	3	2	3
CO 4	1	1	2	2	2	2	3	3	3
CO 5	2	2	1	3	2	2	3	3	3
CO 6	1	1	2	2	2	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 (20%)
- Final Exam (70%)

	Internal Exam	Quiz / Assignment/ Viva Voce/ Discussion / Seminar	Practical Assignment	End Semester Examination
CO 1	\checkmark	\checkmark		\checkmark
CO 2	\checkmark	\checkmark	\checkmark	\checkmark
CO 3	\checkmark	\checkmark	\checkmark	\checkmark
CO 4	\checkmark	\checkmark	\checkmark	\checkmark
CO 5		\checkmark	\checkmark	
CO 6			\checkmark	

Programme	B.A. Economics w	B.A. Economics with Foreign Trade				
Course Title	ECONOMIC DAT	ΓΑ VISUAL	ISATION A	ND STORY	TELLING	
Type of Course	Vocational Minor	Vocational 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	Economic Data An	alysis cours	e of $100 - 1$	99 level		
Course Summary	Students will learn how to extract insights from economic data, create					
	compelling visualizations, and craft engaging narratives, through a					
	hands-on approach	١,				

СО	CO Statement	Cognitive	Knowledge	Evaluation Tools			
		Level*	Category#	used			
CO1	Students will demonstrate an understanding of the principles of data storytelling and its relevance in economic contexts.	U	С	Written reflections on the importance of data narratives in economic analysis.			
CO2	Students will analyze economic data narratives to extract insights and patterns.	An	С	Case studies or real- world examples where students critically evaluate data stories and identify underlying economic implications.			
CO3	Students will be able to create effective time series visualizations using appropriate tools (e.g., Excel, Python, R).	Ap	С	A portfolio of time series graphs showcasing economic trends and patterns.			
CO4	Students will design comprehensive data narratives that integrate visualizations and storytelling	С	С	Final presentations or reports where students develop and present their own data stories on economic topics			
CO5	Students will develop original data- driven narratives related to economic trends and patterns.	С	С	Assessment of individual or group projects showcasing data narratives and visual designs.			
# - Fa	 * - 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
		Data Story Exploration & Explanation	8	
	1	Narratives in Numbers (Understanding how to find, collect, and analyze economic data; Spotting stories within numerical data; Developing a "data mindset" for better decision-making; Crafting compelling narratives using data)	3	
Ι	2	Effective Infographics (Exploring various ways to depict economic data visually; Choosing the right chart or infographic to convey clear and powerful messages; Revealing new insights through data visualization; Avoiding potential pitfalls and deceptive visual representations)	3	12
	3	Storytelling Techniques (Learning the art of storytelling with economic data; Understanding the components of data stories: narrative, data, and visuals; Crafting engaging narratives around complex economic concepts; Presenting data effectively and visually appealing)	2	
		Visualizing Time Series Data	15	
	4	Line Plots and Time Series Graphs (Understanding the basics of line plots and their suitability for visualizing time series data; Creating line graphs to represent economic trends over time; Highlighting seasonality, cyclical patterns, and long-term changes using time series graphs)	1	
	5	Seasonal Subseries Plots (Exploring seasonal variations in economic data; Constructing subseries plots to visualize patterns within specific seasons (e.g., monthly or quarterly); Identifying recurring patterns and anomalies related to seasons)	2	
II	6	Autocorrelation Plots (Analyzing autocorrelation in time series data; Creating autocorrelation plots to assess the relationship between observations at different lags; Detecting periodicity and potential predictive patterns)	3	22
	7	Histograms for Time Series Data (Using histograms to understand the distribution of economic variables over time; Identifying central tendencies, variability, and potential outliers; Comparing the distribution of economic indicators across different time periods)	1	
	8	Interactive Visualizations for Dynamic Data (Building interactive dashboards that allow users to explore economic data over time; Incorporating tooltips, sliders, and other interactive elements)	3	
	9	Identifying Anomalies and Outliers (Detecting sudden changes, spikes, or dips in economic time series: Visualizing anomalies using scatter plots, box plots, or	2	

Image: Interstanding the impact of outliers on economic analysis) Image: I		<u> </u>			
10 Comparing Multiple Time Series (Visualizing economic performance across different sectors, regions, or countries; Overlaying multiple time series on a single 1 graph for comparative analysis; Highlighting relative growth rates, trends, and disparities) 15 Data Story Narrative 15 Narrative Structure for Data Stories (Understanding the fundamental elements of storytelling (e.g., protagonist, complication, resolution); Applying narrative structures (e.g., Aristotle's Tragedy Structure, Campbell's Hero's Journey) to data stories; Crafting a compelling narrative arc for economic data insights) Setting the Scene: Current Situation (Introducing the context and background of the economic problem or scenario; Describing the current state of affairs using 4 relevant data points; Creating a hook to engage the audience in the data story) Insights Leading to the Central Point (Unveiling key insights derived from economic data analysis; 13 Presenting data-driven findings that build up to the central insight; Using visualizations to support and emphasize these insights) 22 Recommendations and Implications (Proposing actionable recommendations) Crafting Engaging Data Narratives (Techniques for making data stories memorable and persuasive. 16 Data Story Planning & Design 10 Insights Carding the data stories (calidoring the data story to inform actionable recommendations) Crafting Engaging Data Narratives (Techniques for making data stories memorable and persuasive.<					
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18context and background of the economic problem or scenario; Describing the current state of affairs using2	_ ·				
18 scenario; Describing the current state of affairs using 2			-		
		18	• •	2	
			relevant data points; Creating a hook to engage the		

	1			
		audience in the data story)		
	19	Insights Leading to the Central Point (Unveiling key insights derived from economic data analysis; Presenting data-driven findings that build up to the central insight; Using visualizations to support and emphasize these insights)	1	
	20	Recommendations and Implications (Proposing actionable recommendations based on the data insights; Discussing the implications of the central insight for decision-makers; Addressing potential challenges or risks associated with the recommendations)	2	
	21	Crafting Engaging Data Narratives (Techniques for making data stories memorable and persuasive; Weaving data points into a coherent and relatable narrative; Balancing quantitative information with qualitative storytelling)	2	
	22	Effective Communication Techniques (Tailoring the data story to different audiences (e.g., executives, policymakers, general public); Choosing the right tone, language, and level of detail; Leveraging storytelling techniques (e.g., anecdotes, metaphors) to enhance understanding and retention)	1	
		Open ended module	12	
	1	Ethical Considerations in Data Visualization (Explore the ethical implications of data visualization in economic contexts; Discuss issues related to bias, misrepresentation, and privacy; Encourage critical thinking about responsible data visualization practices)		
v	2	Interactive and Dynamic Visualizations (Dive into creating interactive dashboards and dynamic visualizations; Understand the benefits of interactive elements (e.g., tooltips, filters, animations); Learn how to engage users through interactive data exploration)		
	3	Visualizing Uncertainty and Risk (Address uncertainty in economic data (e.g., confidence intervals, prediction intervals); Visualize risk scenarios using probabilistic methods; Explore techniques for conveying uncertainty in economic forecasts)		

Note: The course is divided into five modules, with four modules together having total 22 fixed units and one open-ended module with a variable number of units. There are total 48 instructional hours for the fixed modules and 12 hours for the open-ended one. Internal assessments (30 marks) are split between the open-ended module (10 marks) and the fixed modules (20 marks). The final exam, however, covers only the 22 units from the fixed modules. The 70 marks shown in the last column, distributed over the first four modules, are only for the external examination.

REFERENCE:

- 1. Dykes, B. (2020). Effective Data Storytelling: How to Drive Change with Data, Narrative, and Visuals. John Wiley & Sons.
- 2. Kirk, A. (2019). Data Visualization: A Handbook for Data-Driven Design (2nd Edition). Sage.

ADDITIONAL READINGS

- 1. "Data storytelling and visualisation" by The Economist
- 2. "Data Visualization and Storytelling" by NYU Wagner

MAPPING OF COS WITH PSOS:

	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6	PSO7	PSO 8	PSO9
CO 1	2	1	-	-	-	-	-	-	-
CO 2	-	2	-	-	-	-	-	-	-
CO 3	-	1	-	1	1	-	3	-	-
CO 4	-	2	-	3	1	2	-	2	3
CO 5	-	3	1	3	1	-	-	-	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	\checkmark	\checkmark		\checkmark
CO 2	\checkmark	\checkmark	\checkmark	\checkmark
CO 3	\checkmark	\checkmark		\checkmark
CO 4	\checkmark	\checkmark	\checkmark	\checkmark
CO 5		\checkmark	\checkmark	

Programme	B.A. Economics w	B.A. Economics with Foreign Trade					
Course Title	MACHINE LEAF	MACHINE LEARNING IN ECONOMICS					
Type of Course	Vocational Minor						
Semester	VIII						
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	Economic Data An	alysis cours	e of 200 – 2	99 level			
Course Summary	This course aims to equip students to explore statistical models, multivariate linear regression, tree-based models, deep learning, and advanced topics like causal inference and ethical considerations in ML for economics						

CO	CO Statement	Cognitive Level*	Knowledge Category#	Evaluation Tools used			
CO1	Understand the Foundations of Statistical Models and Optimization in Economics	U	С	Written exam or concept-based questions			
CO2	Analyze Model Diagnostics and Residual Analysis in Multivariate Linear Regression	An	С	Case study or practical assessment involving residual analysis and interpretation of influential observations			
CO3	Apply Variable Selection Techniques in Multivariate Linear Regression	Ар	С	Practical assignments involving stepwise regression, regularization methods, and feature importance analysis.			
CO4	Create Interpretable Machine Learning Models	С	С	Project or assignment where students build and interpret ML models (e.g., using SHAP values or LIME) on economic datasets.			
CO5	Develop Ethical AI Practices in Economics	С	Р	Research paper or presentation discussing ethical considerations, bias mitigation, and privacy-preserving techniques in ML applications for economics.			
	 * - Remember (R), Understand (U), Apply (Ap), Analyse (An), Evaluate (E), Create (C) # - Factual Knowledge(F) Conceptual Knowledge (C) Procedural Knowledge (P) Metacognitive 						
Know	vledge (M)						

Module		Content	Hrs	Marks
mouule	Cint	Introduction to Statistical Models and Optimization	5	Widi Ko
	1	Statistical models	1	
Ι	2	Loss functions	2	7
	3	Optimization techniques	2	
	5	Review of Multivariate Linear Regression	<u> </u>	
		Introduction to Multivariate Linear Regression (Overview of linear	10	
	4	regression with multiple independent variables; Assumptions and	2	
	-	limitations; Interpretation of coefficients)	2	
		Matrix Representation and Notation (Representing multiple regression		
	5	equations using matrices; Matrix algebra for regression; Vector notation	2	
	5	for model parameters)	2	
		Model Estimation and Inference (Least squares estimation; Hypothesis		
	6 testing for regression coefficients; Confidence intervals)	3		
		Model Diagnostics and Residual Analysis (Checking model		
II	7	assumptions (linearity, homoscedasticity, normality); Residual plots	2	22
	,	and influential observations; Detecting multicollinearity)	2	
		Variable Selection Techniques (Stepwise regression (forward,		
	8	backward, and hybrid approaches); Regularization methods (Lasso,	3	
	0	Ridge); Feature importance and selection criteria)	5	
	9	Interaction Effects and Nonlinear Terms: (Incorporating interaction	2	
		terms; Polynomial regression; Splines and piecewise linear models)		
		Applied Examples and Case Studies (Real-world applications of		
	10	multivariate linear regression in economics; Case studies illustrating	1	
		practical use and interpretation)		
		Beyond Linear Regression	15	
		Generalized Linear Models (GLMs) (Introduction to GLMs as an		
		extension of linear regression; Different link functions (e.g., logistic,	2	
	11	Poisson) for modeling non-normal response variables; Applications in		
		economics (e.g., binary choice models, count data models))		
		Nonparametric Regression Techniques (Kernel regression and local		
	12	regression; Smoothing splines; Advantages and limitations of	4	
		nonparametric approaches)		
		Tree-Based Models (Decision trees and ensemble methods (e.g.,		
	13	Random Forest, Gradient Boosting); Interpretability and predictive	3	
		power; Handling missing data and categorical variables)		
III		Support Vector Machines (SVM) (Basics of SVM for classification		22
111		and regression) Kernel trick and hyperparameter tuning; Economic		
	14	applications (e.g., credit risk assessment, stock market prediction))	2	
	14	Neural Networks and Deep Learning (Introduction to artificial neural	2	
		networks (ANNs)); Feedforward architecture, activation functions, and		
		backpropagation.		
	15	Deep learning architectures (e.g., CNNs, RNNs) and their relevance in	2	
	10	economics)	-	
		Model Evaluation and Selection (Cross-validation techniques; Model		
		comparison using metrics (e.g., RMSE, AIC, BIC); Bias-variance	~	
	16	trade-off and overfitting)	2	

IV		Advanced Topics in Machine Learning for Economics	13	
	17	Causal Inference and Econometrics (Counterfactual analysis and causal inference; Propensity score matching and regression discontinuity design; Incorporating machine learning techniques for causal analysis)	2	
	18	Time Series Forecasting (ARIMA (AutoRegressive Integrated Moving Average) models; Exponential smoothing methods; Deep learning for time series prediction (e.g., LSTM networks))	2	
	19	Natural Language Processing (NLP) in Economics (Text mining and sentiment analysis; Topic modeling (e.g., Latent Dirichlet Allocation); Applications in analyzing economic news, research papers, and social media data)	2	19
	20	Reinforcement Learning (RL) for Decision-Making (Markov Decision Processes (MDPs) and RL fundamentals; Q-learning, policy gradients, and actor-critic algorithms; Economic applications (e.g., optimal pricing, resource allocation))	2	19
	21	Interpretable Machine Learning (SHAP (SHapley Additive exPlanations) values and feature importance; LIME (Local Interpretable Model-agnostic Explanations); Ensuring transparency and accountability in ML models)	2	
	22	Ethical Considerations in ML for Economics (Bias and fairness in ML models; Privacy-preserving techniques; Responsible AI practices in economic applications)	3	
V		Open ended module	12	
	1	Economic Forecasting with Machine Learning (Explore how ML techniques can enhance economic forecasting; Discuss time series models, ensemble methods, and deep learning for predicting economic indicators (e.g., GDP growth, inflation rates); Consider the challenges of incorporating ML into existing forecasting frameworks)		
	2	Ethical and Social Implications of ML in Economics (Delve into the ethical considerations related to ML deployment in economic contexts; Discuss bias, fairness, and transparency; Explore case studies where ML models have had unintended consequences in economic decision- making)		
	3	Interdisciplinary Applications of ML in Economics (Investigate how ML intersects with other fields (e.g., behavioral economics, finance, development economics); Explore applications such as recommender systems for personalized financial advice, fraud detection, and impact evaluation. Encourage students to think beyond traditional economic paradigms)		

Note: The course is divided into five modules, with four modules together having total 22 fixed units and one open-ended module with a variable number of units. There are total 48 instructional hours for the fixed modules and 12 hours for the open-ended one. Internal assessments (30 marks) are split between the open-ended module (10 marks) and the fixed modules (20 marks). The final exam, however, covers only the 22 units from the fixed modules. The 70 marks shown in the last column, distributed over the first four modules, are only for the external examination.

REFERENCE:

1. James, G., Witten, D., Hastie, T., & Tibshirani, R. (2013). An Introduction to Statistical Learning. New York: Springer.

ADDITIONAL READINGS

- 1. Murphy, K. P. (2012). Machine Learning: A Probabilistic Perspective. MIT Press.
- 2. Hastie, T., Tibshirani, R., Friedman, J., & Franklin, J. (2005). The Elements of Statistical Learning: Data Mining, Inference, and Prediction.
- 3. Bishop, C. M. (2006). Pattern Recognition and Machine Learning. Springer.

	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6	PSO7	PSO 8	PSO9
CO 1	2	-	-	-	-	-	-	-	-
CO 2	-	2	-	-	-	-	-	-	-
CO 3	-	1	-	1	1	-	3	-	-
CO 4	-	2	-	3	1	2	-	2	3
CO 5	-	3	1	3	1	-	-	-	2

MAPPING OF COS WITH PSOS:

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	\checkmark	\checkmark		\checkmark
CO 2	\checkmark	\checkmark	\checkmark	\checkmark
CO 3	\checkmark	\checkmark		\checkmark
CO 4	\checkmark	\checkmark	\checkmark	\checkmark
CO 5		\checkmark	\checkmark	

General Foundation Courses in Economics with Foreign Trade

Programme	B.A. Economics with	B.A. Economics with Foreign Trade					
Course Title	SECURITY TRAD	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 invest	ments.					

CO	CO Statement	Cognitive Level*	Knowledge Category#	Evaluation Tools used			
CO1	Students will acquire a conceptual foundation in the field of investments.	U	С	Instructor- created exams / Quiz			
CO2	Learners will gain skills in designing and managing both bond and equity portfolios in real-world scenarios.	Ap	Р	Practical Assignment using paper trading app			
CO3	Students will be able to value various financial instruments, including equity and debt securities	An	Р	Seminar Presentation / Group Discussion			
CO4	CO4 Evaluate the characteristics of various avenues of investment.						
# - Fa	 * - 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	nvestment Environment, Markets and Instruments	8	
	1	Financial Market—Primary and Secondary market	1	
	2	instruments of secondary market;	1	
I	3	Major Agencies of Secondary market: NSE, BSE, CDSL, NSDL, SEBI	2	11
1	4	Different types of trading—overview of derivative market, futures and options, Major indices of BSE and NSE.	2	11
	5	Different trader in the secondary market—FIIs, DIIs, retailers	2	
		Equity Selection	8	
	6	The Fundamental Analysis: Meaning and importance	1	
п	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	11
	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	
	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	11
	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	
	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
	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	
		Open Ended Module	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		
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Note: The course is divided into five modules, with four modules together having total 19 fixed units and one open-ended module with a variable number of units. There are total 36 instructional hours for the fixed modules and 9 hours for the open-ended one. Internal assessments (25 marks) are split between the open-ended module (5 marks) and the fixed modules (20 marks). The final exam, however, covers only the 19 units from the fixed modules. The 50 marks shown in the last column, distributed over the first four modules, is only for the external examination.

REFERENCE:

- 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)

	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6	PSO7	PSO8	PSO9
CO 1	3	-	-	-	-	-	-	-	-
CO 2	-	3	-	1	-	-	2	-	-
CO 3	3	-	-	1	_	-	-	-	-
CO 4	-	3	1	2	-	-	3	-	-

MAPPING OF COS WITH PSOS:

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	\checkmark	\checkmark		\checkmark
CO 2	\checkmark		\checkmark	\checkmark
CO 3	\checkmark	\checkmark		\checkmark
CO 4	\checkmark	\checkmark		\checkmark

Programme	B.A. Economics with	n Foreign Tra	ade				
Course Title	DIGITAL ECONOMY						
Type of Course	MDC						
Semester	II						
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 Eco	nomics of 0	– 99 level				
Course	This course is design	ed to provide	e a theoretica	l and practica	l knowledge		
Summary	about digital econom	ıy					

CO	CO Statement	Cognitive Level*	Knowledge Category#	Evaluation Tools used		
CO1	Understand the Historical foundations and impact of the digital economy.	U	С	Instructor- created exams / Quiz, Assignment		
CO2	Analyze business and innovation in the digital age.	An	Р	Case Study Analysis,		
CO3	Critically evaluate the role of data and analytics.	Е	М	Research Paper, Debate Participation		
CO4	Assess the policy and social implications of the digital economy.	Ap	р	Instructor- created exams / Home Assignments		
* - 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
		Foundations of the Digital Economy	12	
	1	The Rise of the Digital Economy: Historical context, key technologies, economic impact of digital economy on	2	
	2	economic growth, productivity and employment. Definition and Meaning of Digital Economy	1	
	3	Digital Goods and Services: Characteristics, pricing models, and distribution channels.	2	
Ι	4	Platforms and Marketplaces: Two-sided markets, network effects, and platform power.	2	17
	5	Data & Information Economics: The information value chain, big data.	2	
	6	Privacy: Data protection and security – privacy concerns	1	
	7	Theories of Digital Economy: Growth theory of digital economy –endogenous growth theory – monetary theory of digital economy	2	
		Business and Innovation in the Digital Age	8	
	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
	11	FintechandFinancialInnovation: Digitalpayments, cryptocurrencies, and blockchain technology	2	
	12	Digital Transformation and Strategy: How businesses are adapting to the digital environment.	2	
		Data and Analytics	8	
	13	The Role of Data and Analytics – Big data, data analytics, and their importance in the digital economy.	3	11
III	14	Emerging trends and technologies shaping the future of the digital economy, such as AI, blockchain, and the metaverse.	4	11
	15 The ethical implications of data collection and usage		1	
]	Policy and Social Implications of the Digital Economy	8	
	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	11
	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	
IV		Discussion based on different digital systems, platforms, technologies, etc. prevailing in India		
1 V		Practical Assignments on digital economy in India Seminar on the digital economy and shaping of policies in India		

Note: The course is divided into five modules, with four modules together having total 19 fixed units and one open-ended module with a variable number of units. There are total 36 instructional hours for the fixed modules and 9 hours for the open-ended one. Internal assessments (25 marks) are split between the open-ended module (5 marks) and the fixed modules (20 marks). The final exam, however, covers only the 19 units from the fixed modules. The 50 marks shown in the last column, distributed over the first four modules, are only for the external examination.

REFERENCE:

- 1. Harld Overby and Jan Arild Audestad (2021). Introduction to Digital Economics: Foundation, Business 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. Pearson 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.

	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6	PSO7	PSO8	PSO9
CO 1	3	2	-	1	1	-	1	-	-
CO 2	2	3	3	3	-	2	2	-	-
CO 3		1	-	2	2	3	2	-	-
CO 4	2	3	1	3	3	1	3	-	-

MAPPING OF COS WITH PSOS:

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 (30%)
- Final Exam (70%)

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

Programme	B.A. Economics w	ith Foreign	Frade				
Course Title	FINANCIAL LITERACY AND PERSONAL FINANCE						
Type of Course	Value Added Cou	rse					
Semester	III						
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 Ec	conomics 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.						

СО	CO Statement	Cognitive	Knowledge	EvaluationTools			
00		Level*	Category#	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			
* - 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			
mouule	Cint	Personal Financial Planning/Financial Literacy	10	IVIUI INS			
		Basics of Financial Planning	10				
	1	1 Meaning of financial planning and the importance of financial planning.					
	2	Risk vs return (inflation risk, market risk and exchange risk).	1				
	3	Planning for the short, medium and long term.					
Ι	4 Introducing financial products that suit short, medium and long timehorizons.			14			
	5	Short term and money market or debt instruments	3				
	6	Long term and asset backed investments.					
		Time Value of Money					
	7	Inflation and its impact on personal financial security,					
	8	2					
	9	3					
	10	Concepts of nominal rate of interest and real rate of interest. Principles of compounding and discounting.	2				
		The Financial Planning Process	08				
	11	The fact find or taking stock ones financial situation, identifying presentprovisions and shortfalls.	3				
II	12 Setting SMART (specific, measurable, achievable, realistic, timebound) financial goals.						
	13						
	14 Physical assets like commodities (gold, silver and other preciousmetals) and properties.		2				
		Financial Products	08				
	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	11			
	17	Equity market products, Risks involved in equity market investments.stocks, shares, equities, mutual funds, derivatives, options.	3	11			
	18	NSE, BSE, OTC Exchange of India. Stock market indices, Nifty, SENSEX, S&P, NASDAQ.	2				
		Insurance and Pension Products	10				
	19	Insurance as a risk management device. Life insurance, (introducevarious types of life products like term insurance, endowment plans,	2				
IV	unit-linked policies (ULIPs etc.), Riders in insurance (eg. critical illnessbenefit, hospitalisation benefit, permanent total disability etc.). Property and casualty insurance, health/medical insurance. Two rules of						
	20	calculating life cover-multiples of salary and the inflation rule. The need for retirement security. Pension products. Difference between statutory pension system and contributory pension. National Pension system and its features. Tier I and Tier II contributions in the NPS . Investment options-active choice and	2				

		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	
		Open Ended Module	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 onstock/equity investments.		

Note: The course is divided into five modules, with four modules together having total 19 fixed units and one open-ended module with a variable number of units. There are total 36 instructional hours for the fixed modules and 9 hours for the open-ended one. Internal assessments (25 marks) are split between the open-ended module (5 marks) and the fixed modules (20 marks). The final exam, however, covers only the 19 units from the fixed modules. The 50 marks shown in the last column, distributed over the first four modules, are only for the external examination.

REFERENCE:

- 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

	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6	PSO7	PSO8	PSO9
CO 1	3	-	-	-	-	-	-	3	-
CO 2	-	2	2	-	-	-	3	2	-
CO 3	-	3	2	-	1	-	1	1	-
CO 4	-	3	-	-	-	-	-	2	-
CO 5	-	-	-	-	-	-	2	3	-
CO 6	-	3	2	-	-	-	2	2	-

MAPPING OF COS WITH PSOS:

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	\checkmark	\checkmark		\checkmark
CO 2	\checkmark		\checkmark	\checkmark
CO 3	\checkmark	\checkmark		\checkmark
CO 4	\checkmark	\checkmark		\checkmark
CO 5		\checkmark	\checkmark	
CO 6			\checkmark	

Programme	B.A. Economics with Foreign Trade						
Course Title	DIGITAL MARK	DIGITAL MARKETING AND E-COMMERCE STRATEGIES					
Type of Course	Value Added Cour	se					
Semester	IV						
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 Ec	conomics of	0 - 99 level				
Course Summary	The course equips students to understand the basics of marketing and						
	how effectively they can use digital medias to run a successful business						
	venture.						

СО	CO Statement	Cognitive Level*	Knowledge Category#	EvaluationTools used
C01	Understand the basic principles of marketing	U	С	Instructor- created exams / Quiz
CO2	Develop and practice the skill of planning and managing e commerce	Ар	Р	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.	Ар	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 assignments
CO6	Demonstrate critical thinking and problem-solving skills by applying theacquired knowledge in complex business world	Ар	Р	Viva Voce
	nber (R), Understand (U), Apply (Ap Knowledge(F) Conceptual Knowledge			

Module		Content	Una	Monka
wooule	Unit	Basic Concepts of Marketing	Hrs 10	Marks
	1		10	
	2	Meaning of marketing Customer value	1	
	3	Customer relationship management- concept and process	1	
	4	Customer buying behaviour		
Ι	5	Buyer decision process		14
-	6	Competitor analysis	3	17
	7	New product development		
	8	Price strategies		
	9	Positioning strategies	3	
	10	Market targeting	2	
		Introduction to Digital Marketing	8	
	11	Meaning, evolution and channels of digital marketing	3	
II	12	Search Engine Optimization, Search Engine Marketing.	2	11
	13	Content Marketing	1	
	14	Social media platforms and marketing	2	
		The Concept of E-Commerce	8	
	15	Meaning and concept, E– commerce v/s Traditional Commerce	2	
III	16	Importance, features & benefits of E- Commerce	1	11
	17	Impacts, Challenges & Limitations of E– Commerce and Supply chain management	3	
	18	Payment systems and security issues	2	
		Website Planning	10	
IV	19	Website Planning & Creation : Content Marketing Strategy, Keywords Research and Analysis	3	14
1.4	20	Web Presence and Creating content	3	14
	20	Different types of display advertising	2	
	21	Google analytics	2	
		Open Ended Module	<u>2</u> 9	
		Discussion on various social media platforms	-	
V		Practical Assignments case study on the success story of any popular e-commerce provider.		

Note: The course is divided into five modules, with four modules together having total 19 fixed units and one open-ended module with a variable number of units. There are total 36 instructional hours for the fixed modules and 9 hours for the open-ended one. Internal assessments (25 marks) are split between the open-ended module (5 marks) and the fixed modules (20 marks). The final exam, however, covers only the 19 units from the fixed modules. The 50 marks shown in the last column, distributed over the first four modules, are only for the external examination.

REFERENCE:

- 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)

	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6	PSO7	PSO8	PSO9
CO 1	3	-	-	-	-	-	-	3	-
CO 2	-	2	2	-	-	-	3	2	-
CO 3	-	3	2	-	1	-	1	1	-
CO 4	-	3	-	-	-	-	-	2	-
CO 5	-	-	-	-	-	-	2	3	-
CO 6	-	3	2	-	-	-	2	2	-

MAPPING OF COS WITH PSOS:

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	\checkmark	\checkmark		\checkmark
CO 2	\checkmark		\checkmark	\checkmark
CO 3	\checkmark	\checkmark		\checkmark
CO 4	\checkmark	\checkmark		\checkmark
CO 5		\checkmark	\checkmark	
CO 6			\checkmark	

Programme	B.A. Economics w	B.A. Economics with Foreign Trade				
Course Title	BIG DATA ANA	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 (Course of 0 -	- 99 level			
Course Summary	The students will be able to identify the role of big data in economic					
	theory, using big data for prediction purpose and make capable for					
	helping private and	d public poli	cies			

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СО	CO Statement	Cognitive Level*	Knowledge Category#	Evaluation Tools used			
CO1	Understand the characteristics and sources of data	U	F	Instructor-created exams / Quiz			
CO2	Analyze different Motivating applications	Ар	С	Practical Assignment / Observation of Practical Skills			
CO3	Evaluate Architectures for big data collection	Е	Р	Seminar Presentation / Group Discussion			
CO4	Apply Big Data for Prediction and Public Policy	Ap	Р	Instructor-created exams / Home Assignments			
CO5	Create programs for big data analytics	С	М	Running programs			
CO6 Demonstrate critical thinking and problem-solving skills by applying the acquired knowledge to address complex economic challenges in the contemporary world. Ap M Viva Voce							
	* - Remember (R), Understand (U), Apply (Ap), Analyse (An), Evaluate (E), Create (C)						
	# - Factual Knowledge(F) Conceptual Knowledge (C) Procedural Knowledge (P)						
Metac	cognitive Knowledge (M)						

ModuleUnitContentHrsMarksThe Role of Economic Theory in Big Data81Characteristics of Big data.21The need for Analytics and Understanding Analytics: Impact of analytics on business; Being analytically competitive; Models and algorithms in Analytics; The Analytics Methodology23Advantages of big data in the economic research and policymaking24Challenges and risks in big data25Sources of big data - National and International36Motivating applications: web scraping, social media, Google.37Real time data (Social media and the labor market)38Tool and Tech Landscape: A review of technology used in data storage, data processing, and data science; Popular tools used in Data Science and when to use each19Using Big Data for Prediction and Public Policy210Architectures for big data collection, analysis, and storage.111Using micro data to answer macroeconomic questions212Finance and high frequency trading213Linear Regression Models and their applications114Logistics Regression Models and their applications115K-nearest-neighbors, classifica	DETAI	LED SY	YLLABUS:				
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Image: Source of the second	II	6	Motivating applications: web scraping, social media,	_	12		
IIIUsing Big Data to Advanced Economic Theory98Tool and Tech Landscape: A review of technology used in data storage, data processing, and data science; Popular210bata storage, data processing, and data science; Popular210Architectures for big data collection, analysis, and storage.111Using micro data to answer macroeconomic questions212Finance and high frequency trading213Linear Regression Models and their applications114Logistics Regression Models and their applications215Time Series Forecasting216k-nearest-neighbors, classification and regression trees, random forests.111An overview of neural networks and deep learning: Images, sounds, text, as sources of information.118Text mining: natural language processing, latent Dirichlet allocation, sentiment analysis.119Big Data Analytics with R.2Open Ended Module9NFHS data extraction techniques		0	Google.				
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	V		NFHS data extraction techniques				

DETAILED CALLADIG.

Note: The course is divided into five modules, with four modules together having total 19 fixed units and one open-ended module with a variable number of units. There are total 36 instructional hours for the fixed modules and 9 hours for the open-ended one. Internal assessments (25 marks) are split between the open-ended module (5 marks) and the fixed modules (20 marks). The final exam, however, coversonly the 19 units from the fixed modules. The 50 marks shown in the last column, distributed over the first four modules, are only for the external examination.

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- 1. "Big Data: A Revolution That Will Transform How We Live, Work, and Think" by Viktor 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.
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- 15. Sendhil Mullainathan and Jann Spiess, Machine Learning: An Applied Econometric Approach, 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

	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6	PSO7	PSO8	PSO9
CO 1	3	-	-	3	2	2	3	2	3
CO 2	1	1	1	2	2	2	3	2	3
CO 3	1	1	1	2	2	2	3	2	3
CO 4	1	1	2	2	2	2	3	3	3
CO 5	2	2	1	3	2	2	3	3	3
CO 6	1	1	2	2	2	2	3	3	3

MAPPING OF COS WITH PSOS:

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	\checkmark	\checkmark		\checkmark
CO 2	\checkmark	\checkmark	\checkmark	\checkmark
CO 3	\checkmark	\checkmark	\checkmark	\checkmark
CO 4	\checkmark	\checkmark	\checkmark	\checkmark
CO 5		\checkmark	\checkmark	
CO 6			\checkmark	

Programme	B.A. Economics with	B.A. Economics with Foreign Trade							
Course Title	ECONOMIC RESE	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 Hours							
	3	3	-	-	45				
Pre-requisites	Basic Economics, Ba	sic Mathema	atics and Bas	ic Statistics co	ourses of 0 –				
	99 level								
Course Summary	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	Research.							

СО	CO Statement	Cognitive Level*	Knowledge Category#	Evaluation Tools used				
CO1	Understand basic programming in R.	U	C	Instructor-created exams / Quiz				
CO2	Analyse various loops and use them appropriately	Ap	Р	Practical Assignment /Case Studies in the Indian context				
CO3	Evaluate various data analysis tools and employ them appropriately.	U	Р	Seminar Presentation / Group Discussion				
CO4	Apply various functions/models in Economic Research	Ар	С	Instructor-created exams / Home Assignments/Cases in the Indian context				
CO5	Design various models and use it in the data analysis.	Е	Р	Writing assignments				
CO6 Demonstrate problem-solving skills by applying the acquired knowledge in R software to address complex economic challenges in the contemporary world.								
# - Fa	* - 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 R and R Studio	7		
Ι	1	Basics of R programming	1		
1	2	R Markdown files	2	10	
	3	Primitive Object Types: Vectors, List	2		
	4	2			
		Loops in R and Functions in R.	6		
II	5	if, else, while and for loops.	2	8	
	6	apply () class functions	2	o	
	7	Writing your own function	2		
		UNIT 3 Data management with Tidyverse	12		
	8	Importing and exporting data	2		
	9	Introduction to tidyverse and tidy workflow	2		
III	11	Data extraction	2	17	
111	12	Data cleaning	1		
	13	Data formatting and wrangling	2		
	14	Creating summary statistics tables	1		
	15	Basic data analysis using tidyverse	2		
	UNII	4 Data Visualisation and Basics of Plotting in R	11		
	16	Creating plots with base R functions.	1		
	17	Introduction to ggplot. Data visualization using ggplot2	1		
IV	18	Linear models - Generic functions for extracting model information - Linear (Multiple Regression) Models	3	15	
	19	The (Model Formula in Straight Line Regression) - Analysis of variance (ANOVA) and ANOVA tables	6		
v		Open Ended Module	9		
	U	se Various models learned in the above modules			

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REFERENCE:

- 1. Zamora Saiz, A., Quesada González, C., & Mondéjar Ruiz, D. (2020). Introduction to R. An Introduction to Data Analysis in R: Hands-on Coding, Data Mining, Visualization and Statistics from Scratch, 9-67.
- Hafner, S. (2019). An Introduction to R for Beginners. (www.researchgate.net/publication/325170649_An_Introduction_to_R_for_Beginners).
- 3. https://rstudio-education.github.io/hopr/preface.html
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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	PSO2	PSO3	PSO4	PSO5	PSO6	PSO7	PSO8	PSO9
CO 1	3	-	-	-	-	-	-	-	-
CO 2	-	3	-	1	-	-	2	-	-
CO 3	3	-	-	1	-	-	-	-	-
CO 4	-	3	1	2	-	-	3	1	-
CO 5	3	_	-	-	-	-	2	1	1
CO 6	-	2	2	3	3	-	3	1	1

CORRELATION LEVELS:

Level	Correlation
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CO 2	\checkmark		\checkmark	\checkmark
CO 3	\checkmark	\checkmark		\checkmark
CO 4	\checkmark	\checkmark		\checkmark
CO 5		\checkmark	\checkmark	\checkmark
CO 6			\checkmark	