



UNIVERSITY OF CALICUT

Abstract

General and Academic IV- Faculty of Humanities- Scheme and Syllabus of BA Development Economics Honours Programme -in tune with the CUFYUGP Regulations 2024, with effect from 2024 Admission onwards - Approved- Subject to ratification by the Academic Council-Implemented- Orders Issued

G & A - IV - B

U.O.No. 11763/2024/Admn

Dated, Calicut University.P.O, 31.07.2024

*Read:-*1.U.O.No. 3103/2024/Admn dated 22.02.2024.

2.Item No 4 of the minutes of the combined meeting of the Board of Studies in Economics UG and PG held on 23.04.2024.

3.Remarks of the Dean, Faculty of Humanities dated 25.05.2024.

4. Orders of the Vice Chancellor in the file of even No and dated 01.06.2024.

ORDER

1. The Regulations of the Calicut University Four Year UG Programmes (CUFYUGP Regulations 2024) for Affiliated Colleges, were implemented with effect from 2024 admission onwards, vide paper read as (1) above.
2. The combined meeting of the Board of Studies in Economics UG and PG held on 23.04.2024, vide paper read as (2) above, has approved the scheme and syllabus of the BA Development Economics Honours programme in tune with CUFYUGP Regulations 2024 with effect from 2024 Admission onwards.
3. The Dean, Faculty of Humanities vide paper read as (3) above, has approved the minutes of the combined meeting of the Board of Studies in Economics UG and PG held on 23.04.2024.
4. Under these circumstances, considering the urgency, the Vice Chancellor has approved the minutes of the combined meeting of the Board of Studies in Economics UG and PG held on 23.04.2024 and has accorded sanction to implement the scheme and syllabus of the BA Development Economics Honours programme in tune with CUFYUGP Regulations 2024 with effect from 2024 Admission onwards, subject to ratification by the Academic Council.
5. The scheme and syllabus of the BA Development Economics Honours programme in tune with CUFYUGP Regulations 2024 are implemented with effect from 2024 Admission onwards, subject to ratification by the Academic Council.
6. Orders are issued accordingly. (Syllabus appended)

Ajayakumar T.K

Assistant Registrar

To

1.The Principals of all Affiliated Colleges 2. Deputy Registrar CDOE

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Forwarded / By Order

Section Officer

UNIVERSITY OF CALICUT

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

SYLLABUS & MODEL QUESTION PAPERS

w.e.f. 2024 admission

(CUFYUGP Regulations 2024)

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

SYLLABUS

PROGRAMME OUTCOMES (PO):

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

PO 1	Knowledge Acquisition: Demonstrate a profound understanding of knowledge trends and their impact on the chosen discipline of study.
PO 2	Communication, Collaboration, Inclusiveness, and Leadership: Become a team player who drives positive change through effective communication, collaborative acumen, transformative leadership, and a dedication to inclusivity.
PO 3	Professional Skills: Demonstrate professional skills to navigate diverse career paths with confidence and adaptability.
PO 4	Digital Intelligence: Demonstrate proficiency in varied digital and technological tools to understand and interact with the digital world, thus effectively processing complex information.
PO 5	Scientific Awareness and Critical Thinking: Emerge as an innovative problem-solver and impactful mediator, applying scientific understanding and critical thinking to address challenges and advance sustainable solutions.
PO 6	Human Values, Professional Ethics, and Societal and Environmental Responsibility: 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.
PO 7	Research, Innovation, and Entrepreneurship: 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 Development Economics Honours programme at Calicut University, a student would:

PSO1	To understand basic concepts of economics
PSO2	To equip the students to examine the socio-economic problems and find out the strategies to overcome these problems through community engagement
PSO3	To achieve organizational, management and leadership skills
PSO4	To acquire skills to evaluate contemporary socio-economic issues by accessing information from various sources and analyzing the collected information using software
PSO5	To understand diverse needs of the marginalized segments of the society and equip them to engage in endeavours leading to their emancipation
PSO6	To 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	To equip the students with appropriate skills and knowledge to address real world economic issues in familiar and unfamiliar contexts
PSO9	To 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	Major	Minor/ Other Disciplines	Foundation Courses AEC: 4 MDC: 3 SEC: 3 VAC: 3	Intern -ship	Total Credit s	Example
		Each course has 4 credits		Each course has 3 credits			
1	Single Major (A)	68 (17 courses)	24 (6 courses)	39 (13 courses)	2	133	Major: Development Economics + 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: Development Economics + History and Political Science
3	Major (A) with Minor (B)	68 (17 courses)	24 (6 courses)	39 (13 courses)	2	133	Major: Development Economics Minor: History
4	Major (A) with Vocational Minor (B)	68 (17 courses)	24 (6 courses)	39 (13 courses)	2	133	Major: Development Economics Minor: Taxation Practices and Procedures
5	Double Major (A, B)	A: 48 (12 courses) B: 44 (11 courses)	- The 24 credits in the Minor stream are distributed between the two Majors. 2 MDC, 2 SEC, 2 VAC and the Internship should be in Major A. Total credits in Major A should be 48 + 20 = 68 (50% of 133) 1 MDC, 1 SEC and 1 VAC should be in Major B. Total credits in Major B should be 44 + 9 = 53 (40% of 133)	12 + 18 + 9	2	133	Development Economics and Mathematics double major
Exit with UG Degree / Proceed to Fourth Year with 133 Credits							

B.A. DEVELOPMENT ECONOMICS HONOURS PROGRAMME

COURSE STRUCTURE FOR PATHWAYS 1 – 4

1. Single Major

2. Major with Multiple Disciplines

3. Major with Minor

4. Major with Vocational Minor

Semester	Course Code	Course Title	Total Hours	Hours/Week	Credits	Marks		
						Internal	External	Total
1	ECO1CJ 101/ ECO1MN 100	Core Course 1 in Major – Principles of Economics	75	5	4	30	70	100
		Minor Course 1	60/ 75	4/ 5	4	30	70	100
		Minor Course 2	60/ 75	4/ 5	4	30	70	100
	ENG1FA 101(1B)	Ability Enhancement Course 1– English	60	4	3	25	50	75
		Ability Enhancement Course 2 – Additional Language	45	3	3	25	50	75
		Multi-Disciplinary Course 1 – Other than Major	45	3	3	25	50	75
		Total		23/ 25	21			525
2	ECO2CJ 102/ ECO2MN 100	Core Course 2 in Major – Budget Analysis	75	5	4	30	70	100
		Minor Course 3	60/ 75	4/ 5	4	30	70	100
		Minor Course 4	60/ 75	4/ 5	4	30	70	100
	ENG2FA 103(1B)	Ability Enhancement Course 3– English	60	4	3	25	50	75
		Ability Enhancement Course 4 – Additional Language	45	3	3	25	50	75
		Multi-Disciplinary Course 2 – Other than Major	45	3	3	25	50	75
		Total		23/ 25	21			525
3	ECO3CJ 201	Core Course 3 in Major – Analytical Tools for Economics – I	60	4	4	30	70	100
	DEC3CJ 202/ DEC3MN 200	Core Course 4 in Major – Development Economics I	60	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
	ENG3FV 108(1B)	Value-Added Course 1 – English	45	3	3	25	50	75
		Total		22/ 24	22			550
4	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
	ENG4FV 109(1B)	Value-Added Course 2 – English	45	3	3	25	50	75
		Value-Added Course 3 – Additional Language	45	3	3	25	50	75
	ENG4FS 111(1B)	Skill Enhancement Course 1 – English	60	4	3	25	50	75
		Total		22	21			525
5	ECO5CJ 301	Core Course 8 in Major – Advanced Microeconomics	60	4	4	30	70	100
	ECO5CJ 302	Core Course 9 in Major – International Trade Theories	60	4	4	30	70	100
	DEC5CJ 303	Core Course 10 in Major – Development Economics II	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
6	DEC6CJ 304/ DEC 8MN304	Core Course 11 in Major – Economic Development in India	60	4	4	30	70	100
	ECO6CJ 305/ ECO8MN 305	Core Course 12 in Major – Elementary Econometrics	75	5	4	30	70	100

	ECO6CJ 306/ ECO8MN 306	Core Course 13 in Major – Advanced Macroeconomics	60	4	4	30	70	100
		Elective Course 3 in Major	60	4	4	30	70	100
		Elective Course 4 in Major	60	4	4	30	70	100
	ECO6FS 113	Skill Enhancement Course 3 – Economic Research with R	45	3	3	25	50	75
	DEC6CJ 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
7	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
	DEC7CJ 403	Core Course 16 in Major – Economics of Public Sector	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		
8	ECO8CJ 406 / ECO8MN 406	Core Course 19 in Major – Macroeconomic Models and Measurement	75	5	4	30	70	100
	ECO8CJ 407 / ECO8MN 407	Core Course 20 in Major – Applied Microeconomics and Evaluation	60	4	4	30	70	100
	ECO8CJ 408 / ECO8MN 408	Core Course 21 in Major – Heterodox Economics	60	4	4	30	70	100
	OR (instead of Core Courses 19 – 21 in Major)							
	DEC8CJ 449	Project (in Honours programme)	360*	13*	12	90	210	300

DEC8CJ 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)							
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
Total Credits for Four Years					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

2. Major with Multiple Disciplines

3. Major with Minor

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 Years	68	24	39	2	133
7	4 + 4 + 4 + 4 + 4	-	-	-	20
8	4 + 4 + 4	4 + 4 + 4	-	12*	24
* Instead of three Major courses					
Total for Four	88 + 12 = 100	36	39	2	177

Years					
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**DISTRIBUTION OF MAJOR COURSES IN DEVELOPMENT ECONOMICS
FOR PATHWAYS 1 – 4**

1. Single Major

2. Major with Multiple Disciplines

3. Major with Minor

4. Major with Vocational Minor

Semester	Course Code	Course Title	Hours/Week	Credits
1	ECO1CJ 101 / ECO1MN 100	Core Course 1 in Major – Principles of Economics	5	4
2	ECO2CJ 102 / ECO2MN 100	Core Course 2 in Major – Budget Analysis	5	4
3	ECO3CJ 201	Core Course 3 in Major – Analytical Tools for Economics – I	4	4
	DEC3CJ 202 / DEC3MN 200	Core Course 4 in Major – Development Economics I	4	4
4	ECO4CJ 203	Core Course 5 in Major – Intermediate Microeconomics	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
5	ECO5CJ 301	Core Course 8 in Major – Advanced Microeconomics	4	4
	ECO5CJ 302	Core Course 9 in Major – International Trade Theories	4	4
	DEC5CJ 303	Core Course 10 in Major – Development Economics II	4	4
		Elective Course 1 in Major	4	4
		Elective Course 2 in Major	4	4

6	DEC6CJ 304 / DEC8MN 304	Core Course 11 in Major – Economic Development in India	4	4
	ECO6CJ 305 / ECO8MN 305	Core Course 12 in Major – Elementary Econometrics	5	4
	ECO6CJ 306 / ECO8MN 306	Core Course 13 in Major – Advanced Macroeconomics	4	4
		Elective Course 3 in Major	4	4
		Elective Course 4 in Major	4	4
	DEC6CJ 349	Internship in Major	-	2
Total for the Three Years				70
7	ECO7CJ 401	Core Course 14 in Major – Time Series Econometrics	5	4
	ECO7CJ 402	Core Course 15 in Major – Game Theory and Economic Behaviour	5	4
	DEC7CJ 403	Core Course 16 in Major – Economics of Public Sector	5	4
	ECO7CJ 404	Core Course 17 in Major – Balance of Payments and Exchange Market	5	4
	ECO7CJ 405	Core Course 18 in Major – Development Issues in Kerala	5	4
8	ECO8CJ 406 / ECO8MN 406	Core Course 19 in Major – Macroeconomic Models and Measurement	5	4
	ECO8CJ 407 / ECO8MN 407	Core Course 20 in Major – Applied Microeconomics and Evaluation	4	4
	ECO8CJ 408 / ECO8MN 408	Core Course 21 in Major – Heterodox Economics	4	4
		OR (instead of Core Courses 19 – 21 in Major)		

	DEC8CJ 449	Project (in Honours programme)	13	12
	DEC8CJ 499	Project (in Honours with Research programme)	13	12
		Elective Course 5 in Major	4	4
		Elective Course 6 in Major	4	4
		Elective Course 7 in Major	4	4
OR (instead of Elective course 7 in Major, in Honours with Research programme)				
	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 DEVELOPMENT ECONOMICS

Sl. No.	Course Code	Title	Seme ster	Total Hrs	Hrs/ Week	Cre dits	Marks		
							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	DEC5EJ 305	Economics of Health and health care	5	60	4	4	30	70	100
6	ECO5EJ 306	Human Capital and Economic Development	5	60	4	4	30	70	100
7	ECO6EJ 307	Industrial Economics	6	60	4	4	30	70	100
8	ECO6EJ 308	Agricultural Economics	6	60	4	4	30	70	100
9	ECO6EJ 309	Indian Financial Market	6	60	4	4	30	70	100
10	ECO6EJ 310	Demography	6	60	4	4	30	70	100

11	ECO6EJ 311	Basic Methods for Economic Research	6	60	4	4	30	70	100
12	ECO6EJ 312	Economic Geography	6	60	4	4	30	70	100
13	DEC8EJ 401	Poverty and inequality analysis	8	60	4	4	30	70	100
14	ECO8EJ 402	Banking and Insurance	8	60	4	4	30	70	100
15	ECO8EJ 403	Economics of Education	8	60	4	4	30	70	100
16	ECO8EJ 404	Law and Economics	8	60	4	4	30	70	100
17	ECO8EJ 405	Local Level Planning	8	60	4	4	30	70	100
18	DEC8EJ 406	Tools for Decision Making in Economics	8	60	4	4	30	70	100

DISTRIBUTION OF GENERAL FOUNDATION COURSES IN DEVELOPMENT ECONOMICS

Seme ster	Course Code	Course Title	Total Hours	Hours/ Week	Credits	Marks		
						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

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

A1: 68 credits in Development Economics (Major A)

B1: 68 credits in Major B

A2: 53 credits in Development Economics (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

Semester	Course Code	Course Title	Total Hours	Hours/Week	Credits	Marks		
						Internal	External	Total
1	ECO1CJ 101 / ECO1MN 100	Core Course 1 in Major Development Economics – Principles of Economics	75	5	4	30	70	100
	BBB1CJ 101	Core Course 1 in Major B –	60/ 75	4/ 5	4	30	70	100
	ECO1CJ 102 / ECO2CJ 102* / ECO2MN 100*	Core Course 2 in Major Development Economics – 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 Development Economics – 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 Development Economics – Analytical Tools for Economics – I	60	4	4	30	70

	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 Development Economics – Digital Economy	45	3	3	25	50	75
		Total		22/24	21			525
3	DEC3CJ 202 / DEC3MN 200	Core Course 4 in Major Development Economics – Development Economics I	60	4	4	30	70	100
	ECO3CJ 203 / ECO4CJ 203*	Core Course 5 in Major Development Economics – 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
	BBB3FM 106 / BBB2FM 106	Multi-Disciplinary Course 1 in B –	45	3	3	25	50	75
	ECO3FV 108	Value-Added Course 1 in Development Economics – Financial Literacy and Personal Finance (for batch A1 only)	45	3	3	25	50	75
			Total		22/24	22		
4	ECO4CJ 204	Core Course 6 in Major Development Economics – 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 Development Economics – Analytical Tools for Economics – II (for batch A1 only)	60	4	4	30	70	100
	ECO4FV 110	Value-Added Course 2 in Development Economics – 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 Development Economics – Big Data Analysis in Economics	45	3	3	25	50	75
		Total		21/ 22	21			525
5	ECO5CJ 302	Core Course 8 in Major Development Economics – International Trade Theories	60	4	4	30	70	100
		Core Course 7 in Major B –	60/ 75	4/ 5	4	30	70	100
	DEC5CJ 303	Core Course 9 in Major Development Economics – Development Economics II (for batch A1 only)	60	4	4	30	70	100
		Elective Course 1 in Major Development Economics	60	4	4	30	70	100
		Elective Course 1 in Major B	60	4	4	30	70	100
	BBB5FS 112 / BBB4FS 112	Skill Enhancement Course 1 in B	45	3	3	25	50	75
		Total		23/ 24	23			575
6	DEC6CJ 304 / DEC8M N304	Core Course 10 in Major Development Economics – Economic Development in India	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 Development Economics	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 Development Economics – Economic Research with R (for batch A1 only)	45	3	3	25	50	75
	DEC6CJ 349	Internship in Major Development Economics (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
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 Development Economics	General Foundation Courses in Development Economics	Internship/ Project in Development Economics	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
Total for Three Years	48	18	2	44	9	12	133
	68			53		12	133
	Major Courses in Developm	Minor Courses					

	ent Economics						
7	4 + 4 + 4 + 4 + 4	-			-	-	20
8	4 + 4 + 4	4 + 4 + 4	12*		-	-	24
* Instead of three Major courses							
Total for Four Years	88 + 12 = 100	12					177

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

A1: 68 credits in Development Economics (Major A)

B1: 68 credits in Major B

A2: 53 credits in Development Economics (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 mes ter	Course Code	Course Title	Tota l Hou rs	Hours/ Week	Credi ts	Marks		
						Inte rnal	Ext ernal	Total
1	ECO1CJ 101 / ECO1M N 100	Core Course 1 in Major Development Economics – Principles of Economics	75	5	4	30	70	100
	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 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

	BBB1F M 105	Multi-Disciplinary Course 1 in B – (for batch B1 only)	45	3	3	25	50	75
		Total		23/25	21			525
2	ECO2CJ 101 / ECO3CJ 201*	Core Course 2 in Major Development Economics – Analytical Tools for Economics – I	60	4	4	30	70	100
	BBB2CJ 101	Core Course 3 in Major B –	60/ 75	4/ 5	4	30	70	100
	ECO2CJ 102 / ECO2MN 100	Core Course 3 in Major Development Economics – 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	Multi-Disciplinary Course 1 in Development Economics – Digital Economy	45	3	3	25	50	75
		Total		23/ 24	21			525
	3	DEC3CJ 202 / DEC3MN 200	Core Course 4 in Major Development Economics – Development Economics – I	60	4	4	30	70
ECO3CJ 203 / ECO4CJ 203*		Core Course 5 in Major Development Economics – 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
BBB3FM 106 / BBB2FM 106		Multi-Disciplinary Course 2 in B –	45	3	3	25	50	75
BBB3FV 108		Value-Added Course 1 in B – (for batch B1 only)	45	3	3	25	50	75

		Total		22/24	22			550
4	ECO4CJ 204	Core Course 6 in Major Development Economics – 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
	ECO4FV 110	Value-Added Course 1 in Development Economics – 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 Development Economics – Big Data Analysis in Economics	45	3	3	25	50	75
		Total		21/23	21			525
5	ECO5CJ 301	Core Course 7 in Major Development Economics – Advanced Microeconomics	60	4	4	30	70	100
		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 Development Economics	60	4	4	30	70	100
		Elective Course 1 in Major B	60	4	4	30	70	100
	BBB5FS 112 / BBB4FS 112	Skill Enhancement Course 1 in B	45	3	3	25	50	75
		Total		23/ 24	23			575
6	DEC6CJ 304 / DEC8M N304	Core Course 8 in Major Development Economics – Economic Development in India	60	4	4	30	70	100

		Core Course 10 in Major B –	60/ 75	4/ 5	4	30	70	100
	ECO6CJ 306 / ECO8MN 306	Core Course 9 in Major Development Economics – Advanced Macroeconomics (for batch A2 only)	60	4	4	30	70	100
		Elective Course 2 in Major Development Economics	60	4	4	30	70	100
		Elective Course 2 in Major B	60	4	4	30	70	100
	BBB6FS 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		23/ 24	25			625
Total Credits for Three Years					133			3325
<p>To continue to study Development Economics in semesters 7 and 8, batch B1(A2) needs to earn additional 15 credits in Development Economics 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 Development Economics. 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 Development Economics taken online to earn the additional 15 credits.</p>								

*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

Semester	Major Courses in B	General Foundation Courses in B	Internship/ Project in B	Major Courses in Developme nt Economics	General Foundation Courses in Developme nt Economics	AEC	Total
1	4 + 4	3	-	4	-	3 + 3	21
2	4	-	-	4 + 4	3	3 + 3	21
3	4 + 4	3 + 3	-	4 + 4	-	-	22

4	4 + 4	3	-	4	3 + 3	-	21
5	4 + 4 + 4	3	-	4 + 4	-	-	23
6	4 + 4	3	2	4 + 4 + 4	-	-	25
Total for Three Years	48	18	2	44	9	12	133
	68			53		12	133
	Major Courses in B	Minor Courses					
7	4 + 4 + 4 + 4 + 4	-			-	-	20
8	4 + 4 + 4	4 + 4 + 4	12*		-	-	24
* Instead of three Major courses							
Total for Four Years	88 + 12 = 100	12					177

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 Development Economics are with only theory component. Out of the total 5 modules of the syllabus, one open-ended module with 20% content is designed

by the faculty member teaching that course, and it is internally evaluated for 5 marks. The internal evaluation of the remaining 4 theory modules is for 20 marks.

4. The students can write the external examination in Development Economics either completely in English or in Malayalam.

Sl. No.	Nature of the Course		Internal Evaluation in Marks (about 30% of the total)		External Exam on 4 modules (Marks)	Total Marks
			Open-ended module / Practical	On the other 4 modules		
1	4-credit course	only theory (5 modules)	10	20	70	100
2	4-credit course	Theory (4 modules) + Practical	20	10	70	100
3	3-credit course	only theory (5 modules)	5	20	50	75

1. MAJOR AND MINOR COURSES

1.1. INTERNAL EVALUATION OF THEORY COMPONENT

Sl. No.	Components of Internal Evaluation of Theory Part of a Major / Minor Course	Internal Marks for the Theory Part of a Major / Minor Course of 4-credits			
		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	-
Total		20	10	10	20*
		30		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 end-semester 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).

PATTERN OF QUESTION PAPER FOR MAJOR AND MINOR COURSES

Duration	Type	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

2. INTERNSHIP

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

2.1. GUIDELINES FOR INTERNSHIP

1. All students shall undergo Internship or Apprenticeship in a firm, industry or organization, or training in labs with faculty and researchers of their own institution or other Higher Educational Institutions (HEIs) or research institutions.
2. For an internship, one credit of Internship means two-hour engagement per week. Accordingly, in a semester of 15 weeks' duration, two credits in this course is equivalent to 60 hours of engagement.
3. The students involved in the internship may continue their internship subject to the condition that his/her academic credits do not get affected in terms of attendance and other assignments. If the need arises, students may also have an opportunity to make use of summer & winter breaks for extending their learning from internships.
4. The internship aims to impart:
 - The students should have an understanding and ability to develop solutions for real-life problems.
 - The students will be made aware of the research ethics, professional accountability, conduct and will be able to practice the research ethics and appropriate skills in his/her own research work.
 - The student will be able to enhance academic productivity by developing writing and reading skills and can make contributions towards social and economic issues.
 - The intern can possess an attitude and skill of adaptability and flexibility for new challenges at 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 Evaluation of Internship		Marks for Internship 2 Credits	Weightage
1	Continuous evaluation of internship through interim presentations and reports by the committee internally constituted by the Department Council	Acquisition of skill set	10	40%
2		Interim Presentation and Viva-voce	5	
3		Punctuality	5	
4	Report of Institute Visit/ Study Tour		5	10%
5	End-semester viva-voce examination to be conducted by the committee internally constituted by the Department Council	Quality of the work	6	35%
6		Presentation of the work	5	
7		Viva-voce	6	
8	Evaluation of the day-to-day records, the report of internship supervisor, and final report submitted for the end semester viva-voce examination before the committee internally constituted by the Department Council		8	15%
	Total Marks		50	

3. PROJECT

3.1. PROJECT IN HONOURS PROGRAMME

- In Honours programme, the student has the option to do a Project of 12-credits instead of three Core Courses in Major in semester 8.

- The Project can be done in the same institution/ any other higher educational institution (HEI)/ research centre/ training centre.
- The Project in Honours programme can be a short research work or an extended internship or a skill-based training programme.
- A faculty member of the respective institution, where the student does the Project, should be the supervisor of the Project.

3.2. PROJECT IN HONOURS WITH RESEARCH PROGRAMME

- Students who secure 75% marks and above (equivalently, CGPA 7.5 and above) cumulatively in the first six semesters are eligible to get selected to Honours with Research stream in the fourth year.
- A relaxation of 5% in marks (equivalently, a relaxation of 0.5 grade in CGPA) is allowed for those belonging to SC/ ST/ OBC (non-creamy layer)/ Differently-Abled/ Economically Weaker Section (EWS)/ other categories of candidates as per the decision of the UGC from time to time.
- In Honours with Research programme, the student has to do a mandatory Research Project of 12-credits instead of three Core Courses in Major in semester 8.
- The approved research centres of University of Calicut or any other university/ HEI can offer the Honours with Research programme. The departments in the affiliated colleges under University of Calicut, which are not the approved research centres of the University, should get prior approval from the University to offer the Honours with Research programme. Such departments should have minimum two faculty members with Ph.D., and they should also have the necessary infrastructure to offer Honours with Research programme.
- A faculty member of the 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
 - 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)
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		12 credits
1	Content and relevance of the Project, Methodology, Quality of analysis, and Innovations of Research	50
2	Presentation of the Project	50
3	Project Report (typed copy), Log Book and References	60
4	Viva-Voce	50
Total Marks		210

4. GENERAL FOUNDATION COURSES

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

4.1. INTERNAL EVALUATION

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

PATTERN OF QUESTION PAPER FOR GENERAL FOUNDATION COURSES

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

	Essay	2	1	10	10
				Total Marks	50

5. LETTER GRADES AND GRADE POINTS

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

LETTER GRADES AND GRADE POINTS

Sl. No.	Percentage of Marks (Internal & External Put Together)	Description	Letter Grade	Grade Point	Range of Grade Points	Class
1	95% and above	Outstanding	O	10	9.50 – 10	First Class with Distinction
2	Above 85% and below 95%	Excellent	A+	9	8.50 – 9.49	
3	75% to below 85%	Very Good	A	8	7.50 – 8.49	
4	65% to below 75%	Good	B+	7	6.50 – 7.49	First Class
5	55% to below 65%	Above Average	B	6	5.50 – 6.49	
6	45% to below 55%	Average	C	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	P	4	3.50 – 4.49	Third Class
8	Below an aggregate of 35% or below 30% in external evaluation	Fail	F	0	0 – 3.49	Fail
9	Not attending the examination	Absent	Ab	0	0	Fail

- When students take audit courses, they will be given Pass (P) or Fail (F) grade without any credits.

- The successful completion of all the courses and capstone components prescribed for the three-year 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 (C_i) with the grade points (G_i) 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,

$$\text{i.e. SGPA (Si)} = \frac{\sum_i (C_i \times G_i)}{\sum_i (C_i)}$$

where C_i is the number of credits of the i^{th} course and G_i is the grade point scored by the student in the i^{th} course in the given semester. Credit Point of a course is the value obtained by multiplying the credit (C_i) of the course by the grade point (G_i) of the course.

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

ILLUSTRATION – COMPUTATION OF SGPA

Semester	Course	Credit	Letter Grade	Grade point	Credit Point (Credit x Grade)
I	Course 1	3	A	8	3 x 8 = 24
I	Course 2	4	B+	7	4 x 7 = 28
I	Course 3	3	B	6	3 x 6 = 18
I	Course 4	3	O	10	3 x 10 = 30
I	Course 5	3	C	5	3 x 5 = 15
I	Course 6	4	B	6	4 x 6 = 24
	Total	20			139
	SGPA				139/20 = 6.950

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

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

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

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

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

- 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 Development Economics

Programme	B.A. Development Economics Honours				
Course Title	PRINCIPLES OF ECONOMICS				
Type of Course	Major				
Semester	I				
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 principles, basic theories and models, various economic systems and other fundamental aspects of economics.				

COURSE OUTCOMES (CO):

CO	CO Statement	Cognitive Level*	Knowledge Category#	Evaluation Tools used
CO1	Understand the basic principles 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	P	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	P	Seminar Presentation / Group Discussion
CO4	Understand and apply the economic perspective and reason accurately and objectively about economic matters.	Ap	C	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.	Ap	P	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)				

DETAILED SYLLABUS:

Module	Unit	Content	Hrs	Marks
I	Basic Principles of Economics		10	15
	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	
	How People Interact			
	5	Trade Can Make Everyone Better Off	1	
	6	Markets Are Usually a Good Way to Organize Economic Activity	1	
	7	Governments Can Sometimes Improve Market Outcomes	1	
	How the Economy as a Whole Works			
8	A Country's Standard of Living Depends on its Ability to Produce Goods and Services	1		
9	Prices Rise When the Government Prints Too Much Money	1		
10	Society Faces a Short-Run Trade-Off between Inflation and Unemployment	1		
II	Thinking like an Economist		10	15
	11	The Economist as Scientist: The Scientific Method: Observation, Theory, and More Observation, The Role of Assumptions, Economic Models, The Circular-Flow Diagram, The Production Possibilities Frontier, Microeconomics and Macroeconomics;	4	
	12	The Economist as Policy Adviser: Positive versus Normative Analysis, Why Economists' Advice Is Not Always Followed;	3	
	13	Why Economists Disagree: Differences in Scientific Judgments, Differences in Values, Perception versus Reality	3	
III	Limits, Alternatives, and Choices		10	15
	14	The Economic Perspective: Scarcity and Choice, Purposeful Behaviour, Marginal Analysis: Comparing Benefits and Costs	3	
	15	Individual's Economizing Problem	2	
	16	Society's Economizing Problem	2	
	17	Unemployment, Growth, and the Future: A Growing Economy, Present Choices and Future Possibilities, A Qualification: International Trade	3	
IV	The Market System		15	25
	18	Economic Systems: Laissez-Faire Capitalism, The Command System, The Market System	2	
	19	Characteristics of the Market System: Private Property, Freedom of Enterprise and Choice, Self-Interest, Competition, Markets and Prices, Technology and Capital Goods, Specialization, Use of Money, Active but Limited Government	2	
	20	Five Fundamental Questions: What Will Be Produced?	4	
		How Will the Goods and Services Be Produced? Who		

		Will Get the Output? How Will the System Accommodate Change? How Will the System Promote Progress?		
	21	The “Invisible Hand”: The Demise of the Command Systems, The Incentive Problem	3	
	22	How the Market System Deals with Risk: The Profit System, Shielding Employees and Suppliers from Business Risk, Benefits of Restricting Business Risk to Owners	4	
	Open Ended Module		30	
V		Discussion based on different economic systems prevailing in the world		
		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%)

MAPPING OF COs TO ASSESSMENT RUBRICS:

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

Programme	B.A. Development Economics Honours				
Course Title	BUDGET ANALYSIS				
Type of Course	Major				
Semester	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.				

COURSE OUTCOMES (CO):

CO	CO Statement	Cognitive Level*	Knowledge Category#	Evaluation Tools used
CO1	Understand the basic concepts and documents of budgeting.	U	C	Instructor-created exams / Quiz
CO2	Develop and practice the skill of interpretation of budget.	Ap	P	Practical Assignment / Observation of Practical Skills
CO3	Understand the roles and responsibilities of various stakeholders in the budget process.	U	P	Seminar Presentation / Group Discussion
CO4	Appreciate the insights of public finance in the real world	Ap	C	Instructor-created exams / Home Assignments
CO5	Develop critical thinking about policy issues by emphasizing the links between economic analysis and current political issues.	Ap	P	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)				

DETAILED SYLLABUS:

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

	17	Disclosures under FRBM Act: Guarantees given by the Government, Tax Revenues raised but not realized, Arrears of Non -Tax Revenues, Asset Register	2	
IV	Budget Finalization		15	25
	18	Budget Activities	1	
	19	Timelines for Budget Activities	2	
	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	
	21	Outcome Budget / Output-Outcome Monitoring Framework (OOMF)	2	
	22	Budget in Parliament: Lok Sabha, Rajya Sabha	5	
V	Open Ended Module		30	
		Analyze the budget allocations for specific sectors (e.g., education, healthcare, infrastructure) over time. Look for trends and changes.		
		Consider how the government's commitment to addressing various issues is reflected in budget allocations		
		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%)

MAPPING OF COs TO ASSESSMENT RUBRICS:

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

Programme	B.A. Development Economics Honours				
Course Title	ANALYTICAL TOOLS FOR ECONOMICS I				
Type of Course	Major				
Semester	III				
Academic Level	200 - 299				
Course Details	Credit	Lecture per week	Tutorial per week	Practical per week	Total Hours
	4	4	-	-	60
Pre-requisites	Basic Economics Course 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.				

COURSE OUTCOMES (CO):

CO	CO Statement	Cognitive Level*	Knowledge Category#	Evaluation Tools used
CO1	To Understand the basic concept of set theory and functions	U	C	Instructor-created exams / Quiz
CO2	To Apply differentiation in solving economic problems	Ap	P	Practical Assignment / Observation of Practical Skills
CO3	To apply integration in solving economic problems	U	P	Seminar Presentation / Group Discussion
CO4	To analyse relationship between economic variables mathematically, analyze, optimize and interpret them	An	P	Instructor-created exams / Home Assignments
CO5	To equip the students to identify a problem, investigate to find out relevant facts and find a logical conclusion	Ap	F	Viva Voce/Project
* - Remember (R), Understand (U), Apply (Ap), Analyse (An), Evaluate (E), Create (C) # - Factual Knowledge(F) Conceptual Knowledge (C) Procedural Knowledge (P) Metacognitive Knowledge (M)				

DETAILED SYLLABUS:

Module	Unit	Content	Hrs	Marks		
I	Set theory and Functions		10	15		
	1	Set theory: concepts, set operations, relations, functions and their properties	4			
	2	Elementary types of functions – linear, quadratic, cubic, polynomial, exponential and logarithmic	3			
	3	Graphs of functions-linear and quadratic algebraic functions	1			
	4	Applications of functions in Economics	2			
II	Differential Calculus		18	25		
	5	Limits and continuity of functions	2			
	6	Meaning of Derivative, Rules, Derivative of single variable and multi variable (except trigonometric function)	2			
	7	Derivatives of implicit functions and Inverse functions	2			
	8	Rate of change- Slope of a curve	2			
	9	Partial Differentiation	2			
	10	Marginal concepts related to Economic functions, Elasticity	2			
	11	Second order Derivatives	2			
	12	Conditions for Optimisation, Single and Multivariate Optimisation	2			
	13	Application in consumption and production decisions	2			
	III	Integral Calculus			10	15
		14	Meaning of integral, The Definite Integral, Rules of Integration, Integration by substitution		3	
		15	Integration by parts		2	
16		Area under a curve-estimation of producers and consumers surplus.	1			
17		The First and Second Fundamental Theorems of Calculus	2			
18		The Mean Value Theorem for integrals.	2			
IV	Linear Models and Matrix		10	15		
	19	Matrix: Meaning, Types and operations	2			
	20	Linear Models and Matrix Algebra and their Applications in Economics	3			
	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			
V	Open Ended Module		12			
	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**)
2. Hoy, M., Livernois, J., McKenna, C., Rees, R., Stengos, T. (2001). Mathematics for Economics, Prentice-Hall India. (**Module 1,2,3,4&5**)
3. Sydsaeter and P. Hammond, Mathematics for Economic Analysis, Pearson Educational Asia: Delhi, 2002. (**Module 1,2,3,4&5**)
4. Introduction to Mathematical Economics, Third edition, Edward T Dowling, Schaum's outline series, McGraw – Hill (Module 1,2,3,4&5)

ADDITIONAL READINGS

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

MAPPING OF COs WITH PSOs:

	PSO1	PSO2	PSO3	PSO4	PSO5	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

CORRELATION LEVELS:

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

ASSESSMENT RUBRICS:

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

MAPPING OF COs TO ASSESSMENT RUBRICS:

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

Programme	B.A. Development Economics Honours				
Course Title	DEVELOPMENT ECONOMICS-I				
Type of Course	Major				
Semester	III				
Academic Level	200 - 299				
Course Details	Credit	Lecture per week	Tutorial per week	Practical per week	Total Hours
	4	4	-	-	60
Pre-requisites	Basic Economics Courses of 100 – 199 level				
Course Summary	This course explores challenges and opportunities faced by developing economies through key concepts, theories, institutions, and practical models.				

COURSE OUTCOMES (CO):

CO	CO Statement	Cognitive Level*	Knowledge Category#	Evaluation Tools used
CO1	Define key terms in development economics, such as "development," "purchasing power parity," and "absolute poverty."	R	F	Instructor-created exams / Quiz
CO2	Identify core values and objectives of development. Describe the basic indicators used to measure development, such as real income, health, and education.	U	C	Seminar Presentation / Group Discussion
CO3	Calculate the Human Development Index (HDI) for a given country using provided data. Apply the concept of purchasing power parity (PPP) to compare living standards across countries.	Ap	P	Seminar Presentation / Group Discussion
CO4	Analyze the characteristics of the developing world, considering factors like lower living standards, higher inequality, and rapid urbanization. Compare and contrast different models of economic development, such as the Rostow	An	C	Seminar Presentation / Group Discussion

	stages of growth and the neocolonial dependence model.			
CO5	Evaluate the strengths and weaknesses of different approaches to measuring poverty, such as the Gini coefficient and the Multidimensional Poverty Index (MPI)	E	M	Writing assignments
CO6	Design a development policy intervention to address a specific problem, such as rural poverty or gender inequality.	C	P	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)				

DETAILED SYLLABUS:

Module	Unit	Content	Hrs	Marks
I	Principles and Concept		6	10
	1	Economics and Development Studies: The Nature of Development Economics. Why Study Development Economics?	2	
	2	The Important Role of Values in Development Economics -	2	
	3	Economies as Social Systems: The Need to Go Beyond Simple Economics	2	
II	Meaning of economic development		15	25
	4	Economic growth versus economic development	2	
	5	The New Economic View of Development.	2	
	6	Amartya Sen's "Capability" Approach.	2	
	7	Development and Happiness.	2	
	8	Three Core Values of Development	2	
	9	The Central Role of Women.	2	
	10	The Three Objectives of Development	1	
	11	Basic Indicators of Development: Real Income, Health, and Education. Purchasing Power Parity. - PQLI, Human	2	

		Development Index, Gender Development Index, Human		
		Poverty Index and Deprivation Index.		
III	Models of Economic Development		15	20
	12	Rostow's Stages of Growth.	2	
	13	The Harrod-Domar Growth Model.	3	
	14	Contributions of Kaldor-Mirrlees and Joan Robinson	3	
	15	Solow's Growth Model and the Convergence Hypothesis,	3	
	16	Endogenous Growth Theory and the role of Human Capital;	2	
	17	Structural-Change Model- The International-Dependence Revolution.	2	
IV	Problems and policies of development		12	15
	18	Inequality - Size Distributions	2	
	19	Measuring Inequality- Kuznets Inverted U hypothesis, Lorenz Curve and Gini-coefficient, Atkinson, Theil, Palma ratio.	4	
	20	Poverty – absolute versus relative -HPI	2	
	21	The Multidimensional Poverty Index	2	
	22	Economic Characteristics of High-Poverty Groups- Women and Poverty. Ethnic Minorities, Indigenous Populations, and Poverty.	2	
V	Open ended module		12	
		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		
		Measuring regional poverty using MPI		
		Discussion on India's economic 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, are only for the external examination.

REFERENCE:

1. Todaro, Michael P., and Stephen C. Smith. *Economic Development*. Pearson UK, 2020. (Module: 1, 2, 3)
2. Thirlwall, Tony, and Penélope Pacheco-López. *Economics of Development: Theory and Evidence*. 10th ed., Bloomsbury Publishing, 2018.(Module: 4)
3. Ghatak, Subrata. *Introduction to Development Economics*. 4th ed., Routledge, 2005. (Module: 5)

ADDITIONAL READINGS

5. *Poor Economics: A Radical Rethinking of the Way to Fight Poverty* by Abhijit V. Banerjee and Esther Duflo (PublicAffairs, 2011).
6. *Why Nations Fail: The Origins of Power, Prosperity, and Poverty* by Daron Acemoglu and James A. Robinson (Crown Publishing Group, 2012).
7. Sen, Amartya. *Development as Freedom*. United Kingdom, Oxford University Press, 1999.
8. Sachs, Jeffrey. *The End of Poverty: Economic Possibilities for Our Time*. United Kingdom, Penguin Books Limited, 2005.
9. Jamison, Dean T., et al. *Disease Control Priorities in Developing Countries* (2nd ed., Oxford University Press, 2006).
10. *The World Inequality Lab*. <https://inequalitylab.world/en/> This website provides data and research on global inequality.
11. The United Nations Development Programme (UNDP) <https://www.undp.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	3	2
CO 5	3	-	-	-	-	-	2	-	3
CO 6	-	2	2	3	3	-	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%)

MAPPING OF COs TO ASSESSMENT RUBRICS:

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

Programme	B.A. Development Economics Honours				
Course Title	INTERMEDIATE MICROECONOMICS				
Type of Course	Major				
Semester	IV				
Academic Level	200 – 299				
Course Details	Credit	Lecture per week	Tutorial per week	Practical per week	Total Hours
	4	4	-	-	60
Pre-requisites	Basic Economics of 100 – 199 level				
Course Summary	This course focuses on the behaviour of consumers under certain conditions, optimization in production, different conditions prevailing in competitive markets and the choices of a competitive firm.				

COURSE OUTCOMES (CO):

CO	CO Statement	Cognitive Level*	Knowledge Category#	Evaluation Tools used
CO1	To understand the core concepts and methods of microeconomics	U	C	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	P	Observation of Practical Skills / Group Discussion
CO4	Apply the economic perspective and reason accurately in relation to different competitive market conditions.	Ap	P	Observation of Practical Skills / Home Assignments
CO5	To solve and interpret stylized problems based on microeconomic models.	An	P	Group Discussion / Instructor-created exams
CO6	Use microeconomic models to evaluate real-world microeconomic phenomena	E	M	Practical Assignment

	and issues.			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)				

DETAILED SYLLABUS:

Module	Unit	Content	Hrs	Marks
I	Choice Under Certainty		10	15
	1	Optimal Choice determination: Budget Line – Marginal Rate of Substitution;	2	
	2	Consumer’s Equilibrium using indifference curves -	2	
	3	Interior Optimum - Boundary Optimum.	2	
	4	Optimisation: Perfect Substitutes and Perfect Complements.	2	
	5	Estimating Utility Functions and implication of the MRS condition.	2	
II	Comparative Statics in Consumer Theory		14	20
	6	Offer Curves: Income Offer Curves- Engel Curves – Normal, Inferior and Giffen Goods –	3	
	7	Perfect Substitutes and Perfect Complements – Homothetic and Quasilinear preferences - Price Offer Curves:	2	
	8	Perfect Substitutes and Perfect Complements – Discrete Goods – Inverse Demand Function	1	
	9	Revealed Preference Approach: WARP and SARP;	2	
	10	The total change in demand: The substitution effect and income effect with suitable examples.	1	
	11	The total change in demand: The substitution effect and income effect with suitable examples.	2	
	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	

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

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%)

MAPPING OF COs TO ASSESSMENT RUBRICS:

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

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

COURSE OUTCOMES (CO):

CO	CO Statement	Cognitive Level*	Knowledge Category#	Evaluation Tools used
CO1	Understand the important concepts of economics and its real-world applications.	U	C	Instructor-created exams / Quiz
CO2	Develop and practice the skill of thinking like an economist.	Ap	P	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	P	Seminar Presentation / Group Discussion
CO4	Understand and apply the macroeconomic perspective and reason accurately and objectively about economic matters.	Ap	C	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.	Ap	P	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)				

DETAILED SYLLABUS:

Module	Unit	Content	Hrs	Marks
I	Classical Macroeconomics		12	17
	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	
	3	The Quantity Theory of Money: The Equation of Exchange, The Cambridge Approach to the Quantity Theory,	2	
	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	
II	The Keynesian System		12	17
	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	
	8	Determining Equilibrium Income, Changes in Equilibrium Income,	1	
	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	
III	The orthodox Keynesian school		12	17
	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	The Relative Effectiveness of Monetary and Fiscal Policy: Policy Effectiveness and the Slope of the IS Schedule, Policy Effectiveness and the Slope of the LM Schedule,	2	
	18	The IS–LM model for an open economy,	2	

	19	The Phillips curve and orthodox Keynesian economics, The central propositions of orthodox Keynesian economics	2	
IV	Aggregate Supply and Demand		13	19
	20	The Keynesian Aggregate Demand Schedule, The Keynesian Aggregate Demand Schedule Combined with the Classical Theory of Aggregate Supply,	3	
	21	A Contractual View of the Labor Market: Sources of Wage Rigidity, A Flexible Price–Fixed Money Wage Model, Labor Supply and Variability in the Money Wage: Classical and Keynesian Theories of Labor Supply,	3	
	22	The Keynesian Aggregate Supply Schedule with a Variable Money Wage, Policy Effects in the Variable-Wage Keynesian Model,	3	
	23	The Effects of Shifts in the Aggregate Supply Schedule: Factors That Shift the Aggregate Supply Schedule	4	
V	Open ended module		12	
		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%)

MAPPING OF COs TO ASSESSMENT RUBRICS:

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

Programme	B.A. Development Economics Honours				
Course Title	ANALYTICAL TOOLS FOR ECONOMICS II				
Type of Course	Major				
Semester	IV				
Academic Level	200-299				
Course Details	Credit	Lecture per week	Tutorial per week	Practical per week	Total Hours
	4	4	-	-	60
Pre-requisites	Basic Economics Course of 0 – 99 level				
Course Summary	This course introduces students about statistical methods for economic analysis. Students shall acquire in-depth knowledge in the concepts of probability, probability distributions, theory of estimation, hypothesis testing and their applications in economic analysis.				

COURSE OUTCOMES (CO):

CO	CO Statement	Cognitive Level*	Knowledge Category#	Evaluation Tools used
CO1	Basic understanding of computation of probability.	U	C	Instructor-created exams / Quiz
CO2	Identify various probability distributions and its applications	Ap	P	Practical Assignment / Observation of Practical Skills
CO3	Understand estimation of mean, variance and population of parameters of sampling distributions	U	P	Seminar Presentation / Group Discussion
CO4	Understand and Apply hypothesis testing for economics theories	Ap	C	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
* - Remember (R), Understand (U), Apply (Ap), Analyse (An), Evaluate (E), Create (C) # - Factual Knowledge(F) Conceptual Knowledge (C) Procedural Knowledge (P) Metacognitive Knowledge (M)				

DETAILED SYLLABUS:

Module	Unit	Content	Hrs	Marks
I	Elementary Probability Theory		14	21
	1	Concepts- Set theory- Permutations and Combinations, Definitions of Probability - classical, empirical and axiomatic approaches- Addition and multiplication laws	3	
	2	Conditional probability- Bay's theorem	2	
	3	Random variables- probability distribution- Mathematical expectation- moments	3	
	4	Two random variables: joint, Marginal and conditional probability functions	3	
	5	Computing expected values- Covariance and correlation coefficients	3	
Probability Distributions			11	16
II	6	Discrete Probability Distributions, Binomial , Poisson, Uniform - simple applications	4	
	7	Continuous probability distributions- Normal, Lognormal and Exponential Distributions (Derivations are not expected)	4	
	8	Concept of law of large numbers and Central limit theorem	1	
	9	Distribution function- Distribution function of one random variable	2	
III	Theory of Estimation		12	17
	10	Statistical Inference, Concept of population, sample- Sampling distributions- Standard error	3	
	11	Distributions of sample mean, Sample variance - chi square Student's t, and F distributions	3	
	12	Small and large sample properties of Z, t, Chi Square and F	2	
	13	Estimation of population parameters using method of OLS	1	
	14	Estimation of population parameters using method of maximum likelihood procedures	1	
	15	Point and interval estimation- Confidence intervals for population parameters	1	
	16	Properties of estimators	1	
	IV	Testing of Hypothesis		
17		Simple and composite hypothesis- Null and alternative hypothesis	1	
18		Type I and Type II error, Critical region- Level of significance, Power of a test	1	
19		Test procedure - Test of significance in respect of Mean, Proportion, Variance and Correlation coefficient and their differences	2	
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	Open Ended Module		12	
	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. 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 & Row, Edition 3,1973
2. Hoel PG: Introduction to Mathematical Statistics, John Wiley & Sons, Edition 4,1971
3. YP Agarwal: Statistical Methods: Concepts, Application and Computation, Sterling Publishers1986
4. Sidney Siegal, N. John Castellan: Non parametric Statistics for Behaviour Sciences, Edition 2, 1988, McGraw-Hill
5. Tulsian, P.C and Vishal Pandey: Quantitative Techniques, Pearson Education, NewDelhi
6. S.P. Gupta: Statistical Methods, Sulthan Chand and Sons, NewDelhi.
7. Hooda R.P: Statistics for Business and Economics, Mac Million, NewDelhi
8. Alpha C Chiang: Fundamental Methods of Mathematical Economics, 2 nd Ed. - International Student Edition, McGrawhill
9. Edward T Dowling: Introduction to Mathematical Economics, Third Edition, Shaum's Outlines, Tata McGrawhill Publishing Co. Ltd, New Delhi.
10. SreenathBaruah: Basic Mathematics and its applications in Economics, Macmillan India Ltd.

MAPPING OF COs WITH PSOs:

	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6	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%)

MAPPING OF COs TO ASSESSMENT RUBRICS:

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

Programme	B.A. Development Economics Honours				
Course Title	ADVANCED MICROECONOMICS				
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	Basic Economics Course of 0 – 99 level				
Course Summary	This course focuses on market on factor inputs, various aspects of general equilibrium and economic efficiency, the behaviour of consumers under uncertain conditions and basic concepts of behavioural economics.				

COURSE OUTCOMES (CO):

CO	CO Statement	Cognitive Level*	Knowledge Category#	Evaluation Tools used
CO1	To understand the fundamental methods and theories of microeconomics	U	C	Instructor-created exams / Practical Assignment
CO2	Understand the functioning of factor markets.	U	C	Writing assignments / Quiz
CO3	To analyze the concept of general equilibrium and welfare analysis.	An	P	Observation of Practical Skills / Group Discussion
CO4	Apply microeconomic concepts to analyse real-life economic situations.	Ap	P	Observation of Practical Skills / Home Assignments
CO5	To evaluate consumer behaviour under uncertain conditions	E	P	Group Discussion / Instructor-created exams
CO6	Develop microeconomic models to evaluate real-world microeconomic phenomena and issues.	C	M	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)				

DETAILED SYLLABUS:

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

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2. H.R Varian (2009), Intermediate Microeconomics- A Modern Approach. W W Norton & Co

ADDITIONAL READINGS

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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	-	-	-	-	-	-	-	-
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

CORRELATION LEVELS:

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

ASSESSMENT RUBRICS:

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

MAPPING OF COs TO ASSESSMENT RUBRICS:

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

Programme	B.A. Development Economics Honours				
Course Title	INTERNATIONAL TRADE THEORIES				
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	Basic Microeconomics and Macroeconomics courses of 200 – 299 level				
Course Summary	This course explores the traditional, modern and new theories of international trade between nations and the relevance of international trade in an economy's development.				

COURSE OUTCOMES (CO):

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

DETAILED SYLLABUS:

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

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

ADDITIONAL READINGS

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

MAPPING OF COs WITH PSOs:

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

CORRELATION LEVELS:

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

ASSESSMENT RUBRICS:

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

MAPPING OF COs TO ASSESSMENT RUBRICS:

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

Programme	B.A. Development Economics Honours				
Course Title	DEVELOPMENT ECONOMICS-II				
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	Microeconomics and Macroeconomics course of 200 – 299 level				
Course Summary	This course explores challenges and opportunities faced by developing economies through key concepts, theories, institutions, and practical models				

COURSE OUTCOMES (CO):

CO	CO Statement	Cognitive Level*	Knowledge Category	Evaluation Tools used
CO1	To understand the theories of development	R	F	Exams / Quiz
CO2	To analyse the theories of economic development with special reference to developing economies	U	C	Seminar / Group Discussion
CO3	To apply theories of development in the context of under developed economies	Ap	P	Seminar / Group Discussion
CO4	Analyze the characteristics of the developing world, considering factors like lower living standards, higher inequality, and rapid urbanization.	An	C	Seminar / Group Discussion
CO5	Compare and contrast different models of economic development.	E	M	Writing 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)				

DETAILED SYLLABUS:

Module	Unit	Content	Hrs	Marks
I	Development and Underdevelopment		12	16
	1	Current Interest in Development Economics-The New International Economic Order-The Mutual Interdependence of the world economy-Challenge of Development Economics-The Perpetuation of Underdevelopment	2	
	2	The Development Gap-Unemployment-The Distribution of Income-Growth and Distribution-Nutrition and Health-Poverty, Famine and Entitlements-Food Production-Education-basic needs-Industrialisation and growth	3	
	3	Role of institution in economic development-measuring institutions and the debate on institutions versus geography - the role of democracy	3	
	4	Capital and technical progress: The Role of Capital in Development-The Capital-Output Ratio-Technical Progress-Capital- and Labour-Saving Technical Progress How Societies Progress Technologically Learning Education.	4	
II	Theories of Development for less developed economies		12	18
	5	Characteristics of developing economies	2	
	6	Vicious circle of poverty- Big push theory	2	
	7	Balanced growth theory	2	
	8	Unbalanced growth theory	2	
	9	A model of Low level equilibrium trap	2	
	10	Critical minimum effort	2	
III	Dual Economy Models		14	20
	12	Dualism-finacial-social-technological	2	
	13	Lewis's model,	2	
	14	The Fei-Ranis model.	3	
	15	The Jorgenson model.	2	

	16	Extensions of the dual economy models: Dixit-Marglin model. The Kelly et al. model	3	
	17	Dual economy models: a critique.	2	
IV	Obstacles to Development		10	16
	18	The Process of Cumulative Causation. Regional Inequalities. International Inequality.	2	
	19	Centre-Periphery Models.	2	
	20	Models of 'Regional' Growth-Rate Differences: Prebisch, Seers and Kaldor.	2	
	21	An Export-Growth Model of Regional Growth-Rate Differences.	2	
	22	Theories of Dependence and Unequal Exchange.	2	
V	Open ended module		12	
		Practical Assignments on economic development and environment		
		Seminar on global warming		
		Seminar on sustainable development		
		Discussion on development theories and 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. Todaro, Michael P., and Stephen C. Smith. *Economic Development*. Pearson UK, 2020. (Module: 1, 2, 3)
2. Thirlwall, Tony, and Penélope Pacheco-López. *Economics of Development: Theory and Evidence*. 10th ed., Bloomsbury Publishing, 2018.(Module: 4)
3. Ghatak, Subrata. *Introduction to Development Economics*. 4th ed., Routledge, 2005. (Module: 4)

ADDITIONAL READINGS

4. *Poor Economics: A Radical Rethinking of the Way to Fight Poverty* by Abhijit V. Banerjee and Esther Duflo (PublicAffairs, 2011).
5. *Why Nations Fail: The Origins of Power, Prosperity, and Poverty* by Daron Acemoglu and James A. Robinson (Crown Publishing Group, 2012).
6. Sen, Amartya. *Development as Freedom*. United Kingdom, Oxford University Press, 1999.
7. Sachs, Jeffrey. *The End of Poverty: Economic Possibilities for Our Time*. United Kingdom, Penguin Books Limited, 2005.
8. Jamison, Dean T., et al. *Disease Control Priorities in Developing Countries* (2nd ed., Oxford University Press, 2006).
9. *The World Inequality Lab*. <https://inequalitylab.world/en/> This website provides data and research on global inequality.
10. The United Nations Development Programme (UNDP) <https://www.undp.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	3	2
CO 5	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%)

MAPPING OF COs TO ASSESSMENT RUBRICS:

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

Programme	B.A. Development Economics Honours				
Course Title	ECONOMIC DEVELOPMENT IN INDIA				
Type of Course	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	Microeconomics and Macroeconomics course of 200 – 299 level				
Course Summary	This course explores the transformation of the Indian economy through policy reforms, growth dynamics, and socio-economic challenges for sustainable progress				

COURSE OUTCOMES (CO):

CO	CO Statement	Cognitive Level*	Knowledge Category#	Evaluation Tools used
CO1	Understand the use and interpretation of various development indicators	U	C	Instructor-created exams / Quiz/ Assignments
CO2	Analyse the working of various macroeconomic policies in India.	An	C	Instructor-created exams /Practical Assignment
CO3	Evaluate the various models of infrastructure projects.	E	C	Instructor-created exams /Seminar Presentation / Group Discussion
CO4	Apply various Project models in infra led development projects.	An	C	Instructor-created exams / Home Assignments
CO5	Critically evaluate the objectives of economic reforms and current economic stands of India.	An	P	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)				
* - Remember (R), Understand (U), Apply (Ap), Analyse (An), Evaluate (E), Create (C)				
# - Factual Knowledge(F) Conceptual Knowledge (C) Procedural Knowledge (P) metacognitive Knowledge (M)				

DETAILED SYLLABUS:

Module	Unit	Content	Hrs	Marks
I	Indian Development Experience		12	17
	1	Features of Indian Economy	2	
	2	Growth experience under various plans	3	
	3	Major development indicators and India	2	
	4	PQLI and HDI	1	
	5	GDI and Multi dimensional poverty index and India	2	
	6	SDG goals and India	2	
II	Economic Reforms in India		17	25
	7	Reforms- Meaning and Components	2	
	8	Background of reforms	2	
	9	New Industrial Policy 1991	2	
	10	Disinvestment- meaning and methods	2	
	11	Financial Sector Reforms	3	
	12	Tax Reforms	3	
	13	Trade reforms	2	
III	Infrastructure and Development		11	16
	15	Infrastructure – meaning and importance	2	
	16	Physical and social infrastructure	3	
	17	Public Private Partnership models	3	
	18	Major Govt. Programs	3	
	Economic Policies in India		8	
19	Monetary policy and its working	2		
20	Fiscal Policy and its working	2		
21	Recent EXIM policy	2		
22	Labour Regulation	2		
V	Open Ended Module		12	
	1	Discussion on latest Economic Survey		
	2	Presentations on indices released by NITI Aayog , UNDP etc		
	3	Assignments on working of various macro policies		

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.

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

REFERENCE:

1. I.C. Dingra, Indian Economy
2. Ruddar Datt & K.P.M. Sundharam, Indian Economy - S.Chand & Sons - New Delhi.
3. K.N. Agarwal, Indian Economy – Problem of Development of Planing - Wishwa Prakashan - New Age of International Ltd.
4. S.K.Misra & V.K.Puri, Indian Economy – Its Development - Himalaya Publishing House - Mumbai.

ADDITIONAL READINGS

1. Economic Survey- Ministry of Finance
2. Various reports of NITI Ayog and RBI

MAPPING OF COs WITH PSOs:

	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

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%)

MAPPING OF COs TO ASSESSMENT RUBRICS:

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

Programme	B.A. Development Economics Honours				
Course Title	ELEMENTARY ECONOMETRICS				
Type of Course	Major				
Semester	VI				
Academic Level	300-399				
Course Details	Credit	Lecture per week	Tutorial per week	Practical per week	Total Hours
	4	3	-	2	75
Pre-requisites	1. Analytical Tools for Economics I of 200-299 level 2. Analytical Tools for Economics II of 200-299 level				
Course Summary	This course introduces students to the econometric methods used to conduct empirical analysis in Economics. The course is designed to provide the students with the basic econometric techniques needed to undertake applied research projects. It also provides the base for more advanced optional courses in econometrics.				

COURSE OUTCOMES (CO):

CO	CO Statement	Cognitive Level*	Knowledge Category#	Evaluation Tools used
CO1	To Understand the methodology of Econometrics	U	C	Instructor-created exams / Quiz
CO2	To analyse linear models using ordinary least squares and make inferences about population parameters	An	P	Practical Assignment
CO3	To evaluate the elasticity, growth rates etc using econometric models	E	P	Seminar Presentation / Practical sessions
CO4	To detect econometric problems and apply remedial measures	E	P	Instructor-created exams / Home Assignments
CO5	Demonstrate econometric models and analysing skills by applying the acquired knowledge to address economic phenomena in the contemporary world. Forecasting using estimated models	Ap, C	F	Practical, Writing 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)				

DETAILED SYLLABUS:

Module	Unit	Content	Hrs	Marks
I	Basic Principles of Economics		5	8
	1	What is Econometrics? Methodology of Econometrics	2	
	2	Uses of Econometrics	1	
	3	Limitations of Econometrics	1	
	4	The concept of PRF -Significance of stochastic error term-The SRF	1	
II	Simple linear regression model: Two variable case		12	19
	5	Ordinary least square estimation of a linear model	2	
	6	Assumptions underlying the method of least squares	1	
	7	Properties of estimators - The Gauss Markov theorem	2	
	8	Goodness of fit	2	
	9	Testing of hypothesis - Confidence intervals	3	
	10	Forecasting	2	
III	Other functional forms of regression models		12	19
	11	Multiple linear regression model - Extension of the single explanatory variable case to a multivariate model(specification, interpretation of regression coefficients)	2	
	12	Multiple linear regression model- test of significance of partial regression coefficients, adjusted R ²	2	
	13	Regression through the origin	1	
	14	Introducing non-linearity through functions of explanatory variables -Double log Model	1	
	15	Semilog models	1	
	16	Reciprocal model	1	
	17	Dummy Variable regression models - ANOVA & ANCOVA models- specification & interpretation of regression coefficients	3	
	18	Dummy variable trap	1	
IV	Violation of classical assumptions: consequences, detection and remedies		16	24
	19	Multicollinearity- Nature, Practical Consequences, Detection methods: using R ² and t values, auxiliary regressions, Remedial measures: combining cross sectional and time series, transformation of variables	4	
	20	Heteroscedasticity – Nature, Consequences, Detection methods: Park test, Spearman’s rank correlation test, White’s general heteroscedasticity test, Remedial measures: WLS method, using plausible assumptions about heteroscedasticity pattern	4	
	21	Autocorrelation - Nature, Consequences, Detection methods: the Run’s test, Durbin Watson d test, Remedial measures: GLS method	4	
	22	Specification Errors – Types, Consequences of underfitting and overfitting of model, Detection methods: DW d statistic, Ramsey’s RESET test, Lagrange multiplier test	4	

V	Open Ended Module	30	
	Estimation of economic functional relationships using cross section data, interpretation and forecasting (Excel package can be used for doing the regression)		

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 with practical skill to analyse updated information on the contemporary world. The 10 marks for the evaluation of practical will be based on Module V. The end-semester examination for the theory part 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)
2. Gujarati, D. (2014). Econometrics by example, 2nd ed. Palgrave Macmillan (Module I,II,III,V).
3. A Koutsoyiannis (1977): Theory of Econometrics- An introductory exposition of Econometric Methods, 2nd Edition, Palgrave (Module I, II)

ADDITIONAL READINGS

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

MAPPING OF COs WITH PSOs:

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

CORRELATION LEVELS:

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

ASSESSMENT RUBRICS:

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

MAPPING OF COs TO ASSESSMENT RUBRICS:

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

Programme	B.A. Development Economics Honours				
Course Title	ADVANCED MACROECONOMICS				
Type of Course	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	Intermediate Macroeconomics course of 200 – 299 level				
Course Summary	This course explores important concepts, theories, models and other fundamental macro aspects of economics.				

COURSE OUTCOMES (CO):

CO	CO Statement	Cognitive Level*	Knowledge Category#	Evaluation Tools used
CO1	Understand the important concepts of economics and its real-world applications.	U	C	Instructor-created exams / Quiz
CO2	Develop and practice the skill of thinking like an economist.	Ap	P	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	P	Seminar Presentation / Group Discussion
CO4	Apply the macroeconomic perspectives and reason accurately and objectively about economic matters.	EV	C	Instructor-created exams / Home Assignments
CO5	To make the students curious about the functioning of the economy and the power and breadth of economics	C	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.	Ap	P	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)				

DETAILED SYLLABUS:

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

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%)

MAPPING OF COs TO ASSESSMENT RUBRICS:

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

Programme	B.A. Development Economics Honours				
Course Title	TIME SERIES ECONOMETRICS				
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	Econometrics course of 300-399 level				
Course Summary	This course introduces students to the econometric methods using time 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 research projects using macroeconomic time series data.				

COURSE OUTCOMES (CO):

CO	CO Statement	Cognitive Level*	Knowledge Category#	Evaluation Tools used
CO1	To Understand the basic concepts of Time series Econometrics	R,U	C	Instructor-created exams / Quiz
CO2	To analyse dynamic econometric models	An	P	Instructor-created exams- Practical Assignment
CO3	To understand and evaluate the stochastic processes	E	P	Seminar Presentation / Quiz /Practical sessions
CO4	To analyse the models of stochastic processes	E	P	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
CO6	Forecasting using estimated models - Demonstrate econometric models and analysing skills by applying the acquired knowledge to address economic phenomena in the contemporary world.	C	P	Practical sessions/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
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I	Dynamic Econometric Models		11	18
	1	Role of Lags in Economics	1	
	2	Distributed Lag (DL) model, Autoregressive (AR) model and Autoregressive Distributed Lag (ARDL) model	2	
	3	The Koyck distributed lag model	2	
	4	Rationalisation of Koyck model (AE model)	2	
	5	Estimation of ARDL Model - Instrumental Variable Method	2	
	6	Almon Approach to Distributed lag model	2	
II	Basic Concepts in Time Series Econometrics		16	22
	7	Stochastic processes, Stationary processes, Purely random processes	1	
	8	Nonstationary stochastic processes – Random walk without drift, Random walk with drift	1	
		Unit root stochastic process, Integrated Process	2	
	9	Transforming nonstationary time series into stationary: Trend stationary process, Difference stationary stochastic processes	3	
	10	Tests of stationarity- ACF and correlogram,	2	
	11	Dickey Fuller and Augmented Dickey Fuller tests of stationarity	3	
	12	Cointegration, Cointegration Test, Error Correction Model	4	
III	Modelling Stochastic Processes		12	18
	13	AR, MA, ARMA and ARIMA models	2	
	14	The Box Jenkins methodology	3	
	15	Forecasting using estimated ARIMA model	1	
	16	Multivariate time series - VAR	1	
	17	Estimation of VAR and Forecasting with VAR	2	
	18	VAR and causality, Problems with VAR modelling	3	
IV	Modelling Financial Time Series		6	12
	19	Volatility Clustering in financial time series	1	
	20	ARCH model	2	
	21	GARCH model	1	
	22	Forecasting volatility in financial time series	2	
V	Simultaneous Equation Models		30	
		Examples for Simultaneous equation models- Simultaneous equation bias – Identification Problem- Estimation Approaches : Recursive model & OLS estimation, ILS, TSLS – Forecasting		

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

ADDITIONAL READINGS

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

MAPPING OF COs WITH PSOs:

	PSO1	PSO2	PSO3	PSO4	PSO5	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%)

MAPPING OF COs TO ASSESSMENT RUBRICS:

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

Programme	B.A. Development Economics Honours				
Course Title	GAME THEORY AND ECONOMIC BEHAVIOUR				
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	Advanced Microeconomics course of 300 – 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.				

COURSE OUTCOMES (CO):

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

DETAILED SYLLABUS:

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

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

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

ADDITIONAL READINGS

- Gibbons, Robert. "An introduction to applicable game theory." *Journal of Economic Perspectives* 11.1 (1997): 127-149.
- Gibbons, Robert, and Robert Gibbons. "A primer in game theory." (1992).
- Fudenberg, Drew, and Jean Tirole. *Game theory*. MIT press, 1991.
- 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%)

MAPPING OF COs TO ASSESSMENT RUBRICS:

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

Programme	B.A. Development Economics Honours				
Course Title	ECONOMICS OF PUBLIC SECTOR				
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	Microeconomics and Macroeconomics course of 200 – 299 level				
Course Summary	The Economics of Public Sector course delves into the economic analysis of government activities and interventions in the economy. It explores various aspects of public sector economics, including public goods, externalities, taxation, public choice theory, and Public Expenditure. Through this course, students gain an understanding of how governments make decisions regarding resource allocation, distribution, and the provision of public goods and services.				

COURSE OUTCOMES (CO):

CO	CO Statement	Cognitive Level*	Knowledge Category#	Evaluation Tools used
CO1	Understand the theoretical foundations of public economics.	U	C	Instructor-created exams / Quiz
CO2	Analyze the efficiency and equity implications of various taxation policies.	An	P	Assignment / Seminar Presentation
CO3	Evaluate the effectiveness of government expenditure in achieving desired outcomes.	E	P	Seminar Presentation / Group Discussion
CO4	Apply economic principles to real-world policy issues and debates.	Ap	P	Practical Assignments / Case Studies
CO5	Create a comprehensive cost-benefit analysis framework for evaluating public projects.	Ap	P	Writing assignments/ Survey / Seminar/ presentation/ Group Discussion
* - Remember (R), Understand (U), Apply (Ap), Analyse (An), Evaluate (E), Create (C) # - Factual Knowledge(F) Conceptual Knowledge (C) Procedural Knowledge (P) Metacognitive Knowledge (M)				

DETAILED SYLLABUS:

Module	Unit	Content	Hrs	Marks
I	ROLE AND SIZE OF THE PUBLIC SECTOR		10	15
	1	Overview of Public Economics	2	
	2	The Economic Role of Government and their Responsibilities	2	
	3	Different perspectives on the role of government	2	
	4	Achieving the balance between Public and Private Sectors	2	
	5	Analyzing and Measuring the Public Sector	2	
II	PUBLIC EXPENDITURE THEORY		17	20
	6	Public Production of Goods and Services	3	
	7	Comparison of Efficiency in the Public and Private Sectors	2	
	8	A Growing Consensus on Government Role in Production	2	
	9	Public Choice Theory	3	
	10	Alternatives for Determining Public Goods Expenditures	2	
	11	Framework for Analysis of Expenditure Policy	2	
	12	Evaluating Public Expenditure	1	
	13	Welfare Programs and the redistribution of Income and Social Insurance	2	
III	TAXATION IN THEORY		8	15
	14	Introduction to Taxation-Tax Incidence	1	
	15	Taxation and Economic Efficiency	1	
	16	Optimal Taxation	2	
	17	Taxation in Practice-Personal Income Tax and Corporation Income Tax	2	
	18	Reform of the Tax System	2	
IV	FURTHER ISSUES		10	20
	19	Intergovernmental Fiscal Relations	4	
	20	Subnational Taxes and Expenditures	2	
	21	Fiscal Deficits and Government Debt	2	
	22	Consequences of Government Deficits	2	
V	Open Ended (Arrange any two activities)		30	
	1	Seminar on Reimagining Public Policy in the Digital Age: Leveraging Technology for Effective Governance		
	2	Discussion about Market Failures and Government Intervention: Striking the Balance for Optimal Economic Outcomes		
	3	Practical Assignments on Analyse a public-private partnership (PPP) project in infrastructure development (e.g., building a new airport, outsourcing public services) and evaluate its economic viability. Assess the allocation of risks and rewards between the public and private sectors, the efficiency of project delivery, and the implications for taxpayers and service users.		
	4	Critically evaluate the economic rationale for government provision of public goods and the challenges associated with identifying and financing such goods.		
	5	Organize a Debate on the consequences of government debt accumulation and deficit spending on long-term fiscal sustainability, economic growth, and intergenerational equity. Consider arguments for and against austerity measures versus fiscal stimulus 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. Joseph E. Stiglitz and Jay K. Rosengard (2015). *Economics of the Public Sector*. W.W. Norton & Company. (Module 1,2,3,4&5)

ADDITIONAL READINGS

1. Richard A. Musgrave and Peggy B. Musgrave (1989). *Public Finance in Theory and Practice*. McGraw Hill Education.
2. Harvey S. Rosen and Ted Gayer (2010). *Public Finance*. Tata McGraw- Hill Edition
3. Arthur C. Pigou (1920). *The Economics of Welfare*. MacMillan and Co. Ltd
4. Richard W. Tresch (2022). *Public Sector Economics*. Palgrave Macmillan
5. David N. Hyman (2014). *Public Finance: A Contemporary Application of Theory to Policy*. Cengage Learning
6. Hugh Dalton (1922). *Principles of Public Finance*. Routledge
7. John E. Petersen (2012). *Government Finance: Economics of the Public Sector*. McGraw-Hill Education
8. Brown and Jackson (2015). *Public Sector Economics*. Routledge

MAPPING OF COs WITH PSOs:

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

MAPPING OF COs TO ASSESSMENT RUBRICS:

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

Programme	B.A. Development Economics Honours				
Course Title	BALANCE OF PAYMENTS AND EXCHANGE MARKET				
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	Microeconomics and Macroeconomics course of 200 – 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 .				

COURSE OUTCOMES (CO):

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

DETAILED SYLLABUS:

Module	Unit	Content	Hrs	Marks
I	Balance of Payment and Balance of Trade		10	15
	1	Balance of trade & Balance of Payment: Accounts in BOP	2	
	2	Equilibrium and Disequilibrium in BoP and Measures to correct BoP	3	
	3	Marshall Lerner Condition, J curve effect and Absorption approach	3	
	4	Foreign Trade Multiplier	2	
II	Foreign Exchange Rate		11	17
	5	Evolution and Functions of foreign exchange market	2	
	6	Theories of Exchange Rate Determination-Mint Parity, Purchasing Power Parity and Balance of Payment theory	2	
	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	
III	Approaches to Balance of Payment and Exchange Rate		15	24
	10	Monetary Approach to Balance of Payment	2	
	11	Portfolio Balance Approach	2	
	12	Exchange Rate overshooting	1	
	13	Internal and External Balance - Swan model	2	
	14	IS- L M- BP Model	2	
	15	Currency substitution Model	2	
	16	Exchange rate volatility	2	
	17	Redux and Target zone Models	2	
IV	Balance of payment and Forex Management in India		9	14
	18	Direction and composition of Balance of payments in India	2	
	19	BOP crisis in India	2	
	20	Currency Convertibility	1	
	21	Exchange control Measures in India	2	
	22	Foreign Exchange Management in India- Fiscal, monetary and trade policy.	2	
V	Open ended module		30	
		Discussion - International Monetary System –Present and Future		
		Practical Assignments 1) Study about the recent trends of balance of payments in developing countries with special reference to India. OR 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 MacMillan New York(Module III)
4. Grath. A(2008), *International Trade and Finance*, London
5. Kindleberger, C.P,*International Economics*, R.D. Irwin, Homewood
6. Bhagwati, J.N(Ed), *International Trade: Selected Readings*, MIT press, 1987.

MAPPING OF COs WITH PSOs:

	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6	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

CORRELATION LEVELS:

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

ASSESSMENT RUBRICS:

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

MAPPING OF COS TO ASSESSMENT RUBRICS:

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

Programme	B.A. Development Economics Honours				
Course Title	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 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.				

COURSE OUTCOMES (CO):

CO	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	E	F	Instructor-created exams/ Discussions/Quiz
CO3	To understand and examine the major development issues of Kerala.	E	P	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.	E	P	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
* - Remember (R), Understand (U), Apply (Ap), Analyse (An), Evaluate (E), Create (C) # - Factual Knowledge(F) Conceptual Knowledge (C) Procedural Knowledge (P) Metacognitive Knowledge (M)				

DETAILED SYLLABUS:

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

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*.

MAPPING OF COs WITH PSOs:

	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	-	-

CORRELATION LEVELS:

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

ASSESSMENT RUBRICS:

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

MAPPING OF COs TO ASSESSMENT RUBRICS:

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

Programme	B.A. Development Economics Honours				
Course Title	MACROECONOMIC MODELS AND MEASUREMENT				
Type of Course	Major				
Semester	VIII				
Academic Level	400 - 499				
Course Details	Credit	Lecture per week	Tutorial per week	Practical per week	Total Hours
	4	3	-	2	75
Pre-requisites	Macroeconomics Course of level 300 – 399				
Course Summary	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.				

COURSE OUTCOMES (CO):

CO	CO Statement	Cognitive Level*	Knowledge Category#	Evaluation Tools used
CO1	Allows deeper insights into economic growth processes and business cycles.	U	C	Instructor-created exams / Quiz
CO2	Integrates the study of macroeconomics with approaches in courses in microeconomics and in field courses in economics	Ap	P	Seminar Presentation / Group Discussion
CO3	Develop a comprehensive and broad perspective of what macroeconomic theory is today	U	P	Seminar Presentation / Group Discussion
CO4	Apply macroeconomic models and tools in specific contexts and to particular problems	E	P	Instructor-created exams / Home Assignments
CO5	Construct models suitable for specific contexts	C	F	Practical Assignment / Observation of Practical Skills
* - Remember (R), Understand (U), Apply (Ap), Analyse (An), Evaluate (E), Create (C) # - Factual Knowledge(F) Conceptual Knowledge (C) Procedural Knowledge (P) Metacognitive Knowledge (M)				

DETAILED SYLLABUS:

Module	Unit	Content	Hrs	Marks
I	Measurement Issues in Macroeconomics		13	20
	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	
	5	Labour Market measurement: unemployment rate, participation rate, employment/population ratio	2	
	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	
II	Closed Economy One Period Macroeconomic Model		12	18
	7	Competitive equilibrium	2	
	8	Optimality	2	
	9	Sources of social inefficiency	2	
	10	Effects of change in government purchases	2	
	11	Effects of change in total factor productivity	2	
	12	Effects of a distorting labour income tax	2	
III	Two Period Model of Consumption-Savings Decision		11	18
	13	Two Period Model of the Economy	2	
	14	The Consumer's Lifetime Budget Constraint	1	
	15	The Consumer's Preferences	1	
	16	Consumer Optimization	1	
	17	How the consumer responds to changes in his or her current income, future income, and the market real interest rate	2	
	18	Competitive equilibrium	2	
	19	The Ricardian Equivalence Theorem	2	
IV	Money, Banking, Prices and Monetary Policy		9	14
	20	Monetary Intertemporal Model – Fisher relation – Competitive equilibrium	3	
	21	Money neutrality in the monetary intertemporal model.	3	
	22	Conventional Monetary Policy, the Liquidity Trap, and Unconventional Monetary Policy	3	
V	Construction of Macroeconomic Models with reference to Indian Economy		30	
		Practical assignments to measure labour market related concepts in India		
		Presentation of macroeconomic model constructed in Indian context		

		Group discussions on social inefficiency		
		Debate: Conventional Vs Unconventional Monetary Policy		

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%)

MAPPING OF COs TO ASSESSMENT RUBRICS:

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

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

COURSE OUTCOMES (CO):

CO	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	P	Instructor-created exams / Quiz
CO3	Evaluate market working with asymmetric information	E	P	Seminar Presentation / Group Discussion
CO4	Apply economic theory to solve welfare maximization problems and for fair allocation	Ap	P	Instructor-created exams / Home Assignments/Viva-voce
CO5	Create a model for depicting the real nature of welfare of society	C	M	Practical Assignment / Observation of Practical Skills
* - Remember (R), Understand (U), Apply (Ap), Analyse (An), Evaluate (E), Create (C) # - Factual Knowledge(F) Conceptual Knowledge (C) Procedural Knowledge (P) Metacognitive Knowledge (M)				

DETAILED SYLLABUS:

Module	Unit	Content	Hrs	Marks
I	Exchange		18	25
	1	Market Trade	2	
	2	The Algebra of Equilibrium	2	
	3	Walras' Law	2	
	4	Relative Prices	2	
	5	The Existence of Equilibrium	2	
	6	Equilibrium and Efficiency	2	
	7	The Algebra of Efficiency	2	
	8	Implications of the First Welfare Theorem	2	
9	Implications of the Second Welfare Theorem	2		
II	Welfare		10	15
	10	Aggregation of Preferences	2	
	11	Social Welfare Functions	2	
	12	Welfare Maximization	2	
	13	Individualistic Social Welfare Functions	2	
III	Externalities		10	15
	14	Fair Allocations, Envy and Equity	2	
	15	Quasilinear Preferences and the Coase Theorem	3	
	16	Production Externalities	3	
	17	Market Signals	2	
IV	Asymmetric Information		10	15
	18	The Tragedy of the Commons	2	
	19	The Market for Lemons, Quality Choice, Adverse Selection	4	
	20	Moral Hazard, Moral Hazard and Adverse Selection	3	
V	Application of Microeconomic Theories in India		12	
	21	Signalling	2	
	22	Incentives	1	
		Discussion based on welfare effects of pollution and environmental degradation in India		
	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			

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*.

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	-	-	-	-	-	-	3	-	-
CO 5	-	-	-	-	-	-	-	-	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%)

MAPPING OF COs TO ASSESSMENT RUBRICS:

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

Programme	B.A. Development Economics Honours				
Course Title	HETERODOX ECONOMICS				
Type of Course	Major				
Semester	VIII				
Academic Level	400 – 499				
Course Details	Credit	Lecture per week	Tutorial per week	Practical per week	Total Hours
	4	4	-	-	60
Pre-requisites	Advanced economic course on Microeconomics, Macroeconomics and Development Economics of 300 – 399 level				
Course Summary	This course intends to provide an alternative perception to the economic theories, principles and concepts.				

COURSE OUTCOMES (CO):

CO	CO Statement	Cognitive Level*	Knowledge Category#	Evaluation Tools used
CO1	To understand the alternative approach to economics	U	C	Instructor-created exams / Practical Assignment
CO2	Understand the various theories of value and the heterodox theories of distribution.	U	C	Assignments / Quiz
CO3	To discern the micro-macro links from the perspective of heterodox economics.	Ap	P	Observation of Practical Skills / Group Discussion
CO4	To view aggregation problems from a different perspective and redefine welfare accordingly	Ap	P	Observation of Practical Skills / Home Assignments
CO5	Use systemist framework to evaluate real-world economic problems and issues.	E	P	Group Discussion / Instructor-created exams
CO6	To explore feminist, ecological and radical discourses.	E	P	Group Discussion / 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)				

DETAILED SYLLABUS:

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

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.

MAPPING OF COs WITH PSOs:

	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	-

CORRELATION LEVELS:

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

ASSESSMENT RUBRICS:

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

MAPPING OF COs TO ASSESSMENT RUBRICS:

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

Programme	B.A. Development Economics Honours				
Course Title	METHODS FOR QUANTITATIVE RESEARCH IN ECONOMICS				
Type of Course	Major				
Semester	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 Summary	This course provides a comprehensive foundation in research design and statistical analysis techniques for economic research, covering topics such as research methodology, data collection methods, statistical analysis, software applications, and advanced topics including regression analysis and econometrics, with a focus on ethical considerations throughout the research process.				

COURSE OUTCOMES (CO):

CO	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	Ap	P	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	P	Instructor-created exams / Home Assignments
CO5	Evaluate the reliability and validity of research findings, interpret statistical results, and communicate their research effectively through written reports and presentations. They will also.	E	C	Instructor-created exams / Home Assignments
CO6	Create comprehensive research projects that demonstrate a mastery of quantitative research methods in the field of economics	Ap	P	

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

DETAILED SYLLABUS:

Module	Unit	Content	Hrs	Marks
I	Foundations of Research Design		12	18
	1	Introduction to Research Methodology - Definition and importance of research	2	
	2	Types of research- exploratory, descriptive, explanatory	1	
	3	Research Problem Formulation: Literature review - Identifying research gaps - Developing research objectives and hypotheses	2	
	4	Research Design and Types - Experimental vs. non-experimental designs - Cross-sectional vs. longitudinal designs - Quasi-experimental designs	3	
	5	Sampling Techniques - Probability and non-probability sampling methods- Sample size determination	3	
	6	Sampling errors and biases	1	
II	Data Collection Methods		12	16
	7	Survey Research - Questionnaire design and construction -	2	
	8	Sampling in surveys – Pilot survey - Survey administration and data collection	3	
	9	Validity and Reliability – Test of Validity and reliability	2	
	10	Randomized control trials - Experimental and control groups	2	
	11	Secondary Data - Utilizing existing datasets	2	
	12	Ethical considerations in data collection	1	
III	Statistical Analysis Techniques		12	18
	13	Descriptive Statistics - Frequency distributions - Graphical representation of data	3	
	14	Inferential Statistics - Hypothesis testing- Confidence intervals - t-tests, ANOVA, ANCOVA,	3	
	15	Correlation Regression analysis.	2	
	16	Data Interpretation - Communicating statistical findings effectively - Presentation: Creating visualizations and tables	4	
IV	Software Applications and Advanced Topics		12	18
	17	Introduction to Statistical Software - Familiarisation of software like R /Python/SPSS	3	
	18	Data import, cleaning and basic analysis	1	
	19	Advanced Regression Analysis - Multiple regression - Logistic regression Model diagnostics	3	
	20	Econometrics in Economic Research - Time-series analysis	2	
	21	Panel data analysis- Instrumental variable methods.	2	
	22	Research ethics.	1	
V	Open Ended Module		12	

		Discussion: Identify a research paper (Qualitative research work)		
		Practical Assignments: Review of various research works and identify different research methods		
		Seminar: Prepare a research proposal 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. "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.
3. 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

MAPPING OF COs WITH PSOs:

	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

CORRELATION LEVELS:

Level	Correlation
-	Nil
1	Slightly / Low
2	Moderate / Medium

3	Substantial / High
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ASSESSMENT RUBRICS:

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

MAPPING OF COs TO ASSESSMENT RUBRICS:

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

Programme	B.A. Development Economics Honours				
Course Title	METHODS FOR QUALITATIVE RESEARCH IN ECONOMICS				
Type of Course	Major				
Semester	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 Summary	This course provides a comprehensive overview of qualitative research methods in economics, covering topics such as philosophical foundations, research design, sampling, data collection techniques, analysis techniques, interpretation, and advanced topics including ethical considerations and the integration of qualitative methods with big data approaches.				

COURSE OUTCOMES (CO):

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	P	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 such as multi-method approaches and case studies.	Ap	P	Instructor-created exams / Home Assignments
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)

DETAILED SYLLABUS:

Module	Unit	Content	Hrs	
I	Introduction to Qualitative Research in Economics		16	22
	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	
	3	Review of literature	2	
	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	
II	Sampling and Data Collection Techniques in Qualitative Research		12	18
	7	Sampling methods: Purposeful sampling technique- Snowball sampling - Critical case sampling-Theoretical sampling.	3	
	8	Data collection methods: In-Depth Interviews - Focus Group Discussions - Observation	3	
	9	Document Analysis -Examining primary and secondary sources	2	
	10	Multi method approach	2	
	11	Case study approach	2	
III	Data Analysis in Qualitative Research		10	15
	12	Techniques: Thematic analysis - Content analysis - Constant comparative analysis	2	
	13	Coding and categorization- Discourse analysis- Narrative analysis.	2	
	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 economics	2	
IV	Advanced Topics in Qualitative Research in Economics		10	15
	18	Recent trends and issues in Qualitative research	2	
	19	Power Dynamics And reflexivity	2	
	20	Big data and qualitative Research methods	2	
	21	Ethical considerations specific to qualitative research.	2	
	22	Evaluating the impact of economic policies	2	

V	Open ended module		12
		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

5. Bryman, A. (2016). Social Research Methods. Oxford University Press.
6. Bordens, K. S., & Abbott, B. B. (2002). Research design and methods: A process approach. McGraw-Hill.
7. Bairagi, V., & Munot, M. V. (Eds.). (2019). Research methodology: A practical and scientific approach. CRC Press.
8. 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%)

MAPPING OF COs TO ASSESSMENT RUBRICS:

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

Elective Courses in Development Economics

Programme	B.A. Development Economics Honours				
Course Title	GENDER ANALYSIS IN ECONOMICS				
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	Basic Economics Course of 200 – 299 level				
Course Summary	This course provides a detailed understanding of gender equality, gender empowerment strategies, and social security policies that promote gender well-being.				

COURSE OUTCOMES (CO):

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	C	Instructor-created exams / Quiz/Assignment
CO2	Examine the peculiarities, role and challenges of gender in the labour market participation	E	C	Instructor-created exams / Practical Assignment / Observation of Practical Skills
CO3	Analyse the basic tools of gender Economics	An	P	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.	Ap	P	Instructor-created exams / Home Assignments
CO5	Suggest and practice certain measures for protecting gender equality and gender well being	Ap	P	Writing assignments/Survey/Debate
* - Remember (R), Understand (U), Apply (Ap), Analyse (An), Evaluate (E), Create (C) # - Factual Knowledge(F) Conceptual Knowledge (C) Procedural Knowledge (P) Metacognitive Knowledge (M)				

DETAILED SYLLABUS:

Module	Unit	Content	Hrs	Marks
I	Introduction to Gender Economics		12	17
	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	
	5	Gender mainstreaming efforts of Local self-government- WCP, GRC, Jagratha Samithi, Kudumbasree,etc.	1	
	6	Transgender policy of India and Kerala	1	
	7	Demography of female population in India-Age structure, mortality rates, Inter-state variations in sex ratio, Causes of declining sex ratio, Measurement of fertility and its control	3	
II	Gender and Labour Market		12	17
	8	workforce participation across Gender –Basic Statistics (world &India), Contribution of Claudin Goldin-U shape Curve	3	
	9	Challenges in informal and Formal Economy–Gender Discrimination and Exploitation in the Labour Market	2	
	10	Time use and Indian Time Use survey (1999-2000& 2019) for assessing women’s labour at home and workplace	3	
	11	Women’s Contribution to National Economy in terms of sectoral shares in GDP and employment	2	
	12	Impact of technology and modernization on women’s work participation	1	
	13	Effects of globalization and liberalization on women	1	
III	Tools for Gender Economics		10	15
	14	Gender Planning-Definition, importance, process and stakeholders	3	
	15	Gender Budgeting: Definition, Importance, process and stakeholders	3	
	16	Gender Auditing: Definition, Importance and process	4	
IV	Tools for Women Empowerment		14	21
	17	Women and education- GER ratio in India -Addressing gender inequalities in education	3	
	18	Gender equity in health-access to nutrition	2	
	19	Women’s participation in decision making	2	
	20	Gender equity in Assets -Protection of property rights	2	
	21	Crimes against women in India-Basic statistics	3	
	22	Schemes for safety net for women	2	
V	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		
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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. Sen, Sujatha (2012), *Gender Studies*- Dorling Kindersley (India) Pvt.Ltd, New Delhi
2. Krishna Raj .M, Sudarshan.R.M, and Shariff.A (1999), *Gender, Population and Development*, Oxford University Press, New Delhi
3. Ellina Samantroy (2022), *Women's Paid and Unpaid Work: Insights from the Time Use Survey and Methodological Issues*, V.V. Giri National Labour Institute, Noida, U.P.

ADDITIONAL READINGS

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

MAPPING OF COs WITH PSOs:

	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6	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%)

MAPPING OF COs TO ASSESSMENT RUBRICS:

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

Programme	B.A. Development Economics Honours				
Course Title	ENVIRONMENT AND SUSTAINABLE DEVELOPMENT				
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 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				

COURSE OUTCOMES (CO):

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 environmental economics and related concepts	Ap	P	Practical Assignment / Observation of Practical Skills
CO3	Evaluate the problem of pollution	U	P	Seminar Presentation / Group Discussion
CO4	Apply the theoretical knowledge in reducing environmental degradation	Ap	C	Instructor-created exams / Home Assignments
CO5	Assess various environmental issues	U	F	Writing assignments
CO6	Create/ suggest various sustainable development models	Ap	P	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)				

DETAILED SYLLABUS:

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

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 Rubinfeld, (2019). *Micro Economics*. Pearson, 8, 657-671
3. A.P. Thirlwall, *Growth and Development*, 8th Edition, Palgrave, macmillan.
4. T. Eugin, (2014). *Environmental economics*, Vrindavan publications, Delhi

ADDITIONAL READINGS

1. Aldy, J. et al. (2010). Designing climate mitigation policy. *Journal of Economic Literature*, 48, 903-934.
2. Cropper, M., Oates, W. (1992). Environmental economics: A survey, *Journal of Economic Literature*, 30, 675-740.
3. Heal, G. (2012). Reflections – defining and measuring sustainability. *Review of Environmental Economics and Policy*, 6, 147-163.
4. Newell, R., Pizer, W., Raimi, D. (2013). Carbon markets 15 years after Kyoto: Lessons learned, new challenges. *Journal of Economic Perspectives*, 27, 123- 46.
5. Perman, R., Ma, Y., Mc Gilvray, J., Common, M. (2011). *Natural resource and environmental economics*, 3rd ed. Pearson Education/Addison Wesley.
6. Stavins, R. (ed.) (2012). *Economics of the environment: Selected readings*, 5th ed. W. W. Norton

MAPPING OF COs WITH PSOs:

	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6	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

CORRELATION LEVELS:

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

ASSESSMENT RUBRICS:

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

MAPPING OF COS TO ASSESSMENT RUBRICS:

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

Programme	B.A. Development Economics Honours				
Course Title	ECONOMIC DATABASE MANAGEMENT				
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	Intermediate Level Economics Courses of 200 – 299 level				
Course Summary	Explore the intersection of economics and database systems, covering data sources, case studies, and economic analysis.				

COURSE OUTCOMES (CO):

CO	CO Statement	Cognitive Level*	Knowledge Category#	Evaluation Tools used
CO1	Understand the fundamentals of database management and its importance in economics	U	C	Instructor-created exams / Quiz
CO2	Learn how to query a database to extract relevant economic data	U	C	Seminar Presentation / Group Discussion
CO3	Check reliability and quality of data	E	P	Seminar Presentation / Group Discussion
CO4	Comparison of different data sources	An	P	Instructor-created exams / Home Assignments
CO5	Develop skills in data analysis using database tools and technologies	Ap	P	Practical Assignment / Observation of Practical Skills
* - Remember (R), Understand (U), Apply (Ap), Analyse (An), Evaluate (E), Create (C) # - Factual Knowledge(F) Conceptual Knowledge (C) Procedural Knowledge (P) Metacognitive Knowledge (M)				

DETAILED SYLLABUS:

Module	Unit	Content	Hrs	Marks
I	Introduction to sources of data		15	22
	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	
	4	Data transformations; level v/s growth rates	2	
	5	Sources of data	1	
	6	Data reporting delay	1	
	7	Length of data	1	
	8	Accuracy of data	1	
II	India's specific data sources		15	22
	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	
	13	SEBI handbook of statistics	2	
	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		
III	Global data sources		8	12
	18	UN data- monthly -Monthly bullets of statistics-SDG indicators- UN comtrade data base-UN conference on trade and development- Climate change indicators- dashboard	4	
	19	International financial statistics- financial access survey- government finance statistics- the World bank data catalogue- the global index data base- Federal Reserve economic data base (FRED)	4	
IV	Case studies and controversies		10	14
	20	The minimum wage controversy-the backward bending supply curve for labour- GDP calculation-Inflation Calculation-Purchasing Power Parity calculations	4	
	21	Reinhart-ROGOFF controversy- public data manipulation	3	
	22	Greece's public deficit figures-controversies about Argentina's inflation statistics- the Brazilian fiscal pedaling- limitations of publicly available data (case studied of relevant economies)	3	
V	Open ended module		12	
		Discussion on reliability of data from different sources		
		Practical Assignments to extract data from various sources		
		Seminar on the influence and value of data-based evaluation of different schemes, situations and problems		

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%)

MAPPING OF COs TO ASSESSMENT RUBRICS:

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

Programme	B.A. Development Economics Honours				
Course Title	ECONOMICS OF LABOUR MARKET				
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	Course on Microeconomics and Macroeconomics of level 200 - 299				
Course Summary	This course explores the intricate dynamics of labour markets, providing students with a comprehensive understanding of the functioning of labour markets, and covering fundamental concepts, historical development, labour market outcomes and contemporary issues.				

COURSE OUTCOMES (CO):

CO	CO Statement	Cognitive Level*	Knowledge Category#	Evaluation Tools used
CO1	Understand the basic concept of labour economics, labour markets and labour force participation.	U	C	Instructor-created exams / Quiz
CO2	Analyze theories of labour supply, labour demand and wage discrimination	An	P	Practical Assignment
CO3	Evaluate wage determination in different market conditions and the impact of labour unions	E	F	Seminar Presentation / Group Discussion
CO4	Apply the theories and contribute to better labour market outcomes.	Ap	P	Instructor-created exams / Home Assignments
CO5	Create critical thinking on labour unions, collective bargaining and Govt Employment Programmes	Ap	F	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)

DETAILED SYLLABUS:

Module	Unit	Content	Hrs	Marks
I	Labor Market and Labour Supply		10	14
	1	Labour Market and the Economy - Unique features of Labour market	1	
	2	Evolution of Labour Market Theory-Labour market Process.	2	
	3	Labour Supply-The Theory of Labour/Leisure Choice-Income taxes and Labour supply	2	
	4	Supply of Salaried and Contract Labourers- Labour Supply Curve.	2	
	5	Labour Force Participation- Its Measurement-Convergence of Participation Rates	3	
II	Labour Demand		15	23
	6	Demand for Labour in the Short Run -Marginal Productivity Theory of Labour Demand with its criticisms	3	
	7	Product Demand and Labour Demand	1	
	8	Short-run Equilibrium in Labour Demand	2	
	9	Elasticity of Demand for Labour	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	
III	Wage Determination, Wage Differential and Discrimination		15	23
	12	Wage Determination in Competitive Markets-Law of One Wage	1	
	13	Wage Determination in Monopsony Market	1	
	14	Minimum wage	1	
	15	Efficiency wage Theory	2	
	16	Compensating Wage Differentials	1	
	17	Hedonic Theory of Compensating Wage Differentials	1	
	18	Economics of Employee Benefits	1	
	19	Issues of Occupational Segregation-Duncan Index	3	
	20	Discrimination in the Labour Market-Theories of Labour Market Discrimination -Measurement of Discrimination.	4	
IV	Union Membership and Collective Bargaining		8	10
	21	Type of Labour Unions- The Determinants of Union Membership: Demand and Supply Model -Equilibrium level of Union Membership.	4	
	22	The Union-Management Bargaining Process-Contract	4	

		Zone-Union and Employer Reaction Function-Bargaining Process Outcomes		
V	Open ended module		12	
		Discussion: Measurement, Types of Unemployment and Causes of Unemployment		
		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/nss-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	2	-

CORRELATION LEVELS:

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

ASSESSMENT RUBRICS:

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

MAPPING OF COs TO ASSESSMENT RUBRICS:

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

Programme	B.A. Development Economics Honours				
Course Title	ECONOMICS OF HEALTH AND HEALTH CARE				
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	Microeconomics course of 200 – 299 level				
Course Summary	This course aims to equip students with fundamental concepts of health economics and the role of market to analyse the application of microeconomic tools to solve the health care issues.				

COURSE OUTCOMES (CO):

CO	CO Statement	Cognitive Level*	Knowledge Category#	Evaluation Tools used
CO1	Understand the basic concepts and significance of Health care terms	U	C	Instructor-created exams / Quiz/ Assignments
CO2	Analyse Health care issues	An	C	Instructor-created exams /Practical Assignment
CO3	Evaluate the Health care issues using microeconomic tools	E	C	Instructor-created exams /Seminar Presentation / Group Discussion
CO4	Applying quantitative tools to analyse the health care valuation	An	C	Instructor-created exams / Home Assignments
CO5	Critically evaluate the role of various players in health care market and to assess the different health care valuation methods.	An	P	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)				

DETAILED SYLLABUS:

Module	Unit	Content	Hrs	Marks
I	Introduction to Health Economics		10	15
	1	Subject matter of Health Economics	1	
	2	Utility	1	
	3	Demand and Elasticity	2	
	4	Supply	2	
	5	Market	1	
	6	Externalities and Market Failure	2	
	7	Welfare Economics and Health	1	
II	Key Players in Health Care sector		12	20
	8	Hospitals and long term care	3	
	9	Physician Agency and Supplier induced demand	2	
	10	Demand for Health care labour	2	
	11	Supply of health care labour	2	
	12	Health insurance- types	3	
III	Health Financing		10	15
	13	Health care financing system	2	
	14	Sources of health care spending	2	
	15	Equity in health care financing	3	
	16	Health financing and insurance in India- major Schemes	3	
IV	Economic Evaluation		16	20
	17	Valuation: meaning and types	2	
	18	Cost Effectiveness Analysis (CEA)	4	
	19	Cost Benefit Analysis (CBA)	2	
	20	Consumer Impact Assessment	2	
	21	Cost Utility Analysis	2	
	22	QALY and DALY	4	
V	Open Ended (Arrange any two activities)		12	
	1	Seminar on Various health care issues		
	2	Prepare field visit reports on infrastructure of Health care centres		
	3	Analysing the real data using various valuation 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, are only for the external examination.

REFERENCE:

1. The economics of health and health care, 2nd edition by Folland, Goodman and Stono (FGS) (modules 1,2,3&4)
2. Drummond MF, Sculpher MJ, Torrance GW, O'Brien B, Stoddart GL, eds. Methods for economic evaluation of health care programmes, Third Edition, Oxford University Press, 2005 (modules 1,2,3&4)

ADDITIONAL READINGS:

1. Paul J Feldstein, Economics of Health Care, CENGAGE learning, 2011
2. Rexford E. Snterre and Stephen P. Neun, Health Economics: Theories, Insights and Industry Studies, Thompson South – Western, 3rd Edition
3. Various NFHS Reports
4. **Koutsoyiannis, A. Modern microeconomics.**

MAPPING OF COs WITH PSOs:

	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

CORRELATION LEVELS:

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

ASSESSMENT RUBRICS:

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

MAPPING OF COs TO ASSESSMENT RUBRICS:

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

Programme	B.A. Development Economics Honours				
Course Title	HUMAN CAPITAL AND ECONOMIC DEVELOPMENT				
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	Course on Intermediate Economics of level 200 - 299				
Course Summary	This course explores the intersection between development economics and the economics of human capital				

COURSE OUTCOMES (CO):

CO	CO Statement	Cognitive Level*	Knowledge Category#	Evaluation Tools used
CO1	Understand the relationship between human capital and economic development	U	C	Instructor-created exams / Quiz
CO2	Analyze the various theories of human capital and economic development	An	P	Practical Assignment
CO3	Evaluate the different theoretical models	Ap	F	Seminar Presentation / Group Discussion
CO4	Apply the theoretical models to real situations	Ap	C	Instructor-created exams / Home Assignments
CO5	Create empirical research models	C	P	Viva
CO6				
* - Remember (R), Understand (U), Apply (Ap), Analyse (An), Evaluate (E), Create (C) # - Factual Knowledge(F) Conceptual Knowledge (C) Procedural Knowledge (P) Metacognitive Knowledge (M)				

DETAILED SYLLABUS:

Module	Unit	Content	Hrs	Marks
I	Introduction		10	15
	1	Human Capital : Definition and Concepts	2	
	2	Relation between Human Capital and Economic Development	2	
	3	Measurement of Human Development	2	
	4	HDI and India	2	
	5	Problems of Human Capital Formation	2	
II	Theoretical Aspects		12	20
	6	Solow Model and Effective Capital	2	
	7	Convergence Hypothesis	2	
	8	Solow Residual	2	
	9	Research on Human Capital and Economic Growth	3	
	10	India's Experience	3	
III	Advanced theories		12	20
	11	Theoretical models on Human capital and Economic Growth	3	
	12	Human Capital formation	2	
	13	Endogenous growth models	2	
	14	Multiple equilibrium and Non-linearity in Human Capital and Economic growth	3	
	15	Overlapping Generations model- Paul Samuelson & Peter Diamond	2	
IV	Empirical Aspects		14	15
	16	The Empirics	2	
	17	Linear and Non-linear Specifications	2	
	18	Non –parametric method and their application	2	
	19	Migration and regional economic growth	3	
	20	Demographic characteristics and economic growth	2	
	21	Economic Policy and Human capital	2	
	22	Human Capital and Development experiences of Kerala	1	
V	Open Ended Module		12	
		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 Capital 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%)

MAPPING OF COs TO ASSESSMENT RUBRICS:

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

Programme	B.A. Development Economics Honours				
Course Title	INDUSTRIAL ECONOMICS				
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 course of 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.				

COURSE OUTCOMES (CO):

CO	CO Statement	Cognitive Level*	Knowledge Category#	Evaluation Tools used
CO1	Identify the basic concepts and scope of Industrial Economics	U	C	Instructor-created exams / Quiz
CO2	Analyse the different forms of organisation and its motives	An	C	Instructor-created exams / Practical Assignment
CO3	Examine the general determinants and approaches of industrial location and explore the motives of mergers and acquisition	An	C	Instructor-created exams/ Seminar Presentation / Group Discussion/
CO4	Evaluate the major source of industrial finance, financial statements, Ratio analysis and break-even analysis procedures in the Indian context.	E	p	Instructor-created exams / Home Assignments/ Practical Assignment
CO5	Analyse basic investment decisions on the basis of project evaluation methods and cost benefit analysis	An	p	Instructor Created exams/Practical 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	P	Debate/panel discussion/ survey /Assignments
<p>* - Remember (R), Understand (U), Apply (Ap), Analyse (An), Evaluate (E), Create (C) # - Factual Knowledge(F) Conceptual Knowledge (C) Procedural Knowledge (P) Metacognitive Knowledge (M)</p>				

DETAILED SYLLABUS:

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

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.

MAPPING OF COs WITH PSOs:

	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	

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%)

MAPPING OF COs TO ASSESSMENT RUBRICS:

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

Programme	B.A. Development Economics Honours				
Course Title	AGRICULTURAL ECONOMICS				
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 Course of 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.				

COURSE OUTCOMES (CO):

CO	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	C	Instructor-created exams / Quiz/ Assignments
CO2	Analyse the theoretical foundations and optimization strategies of economics of agricultural production	An	C	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	E	C	Instructor-created exams /Seminar Presentation / Group Discussion
CO4	Demonstrate the structure and techniques of agriculture marketing in Indian context	An	C	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	P	Writing assignments/ Survey / Seminar/ presentation/ Group Discussion

* - Remember (R), Understand (U), Apply (Ap), Analyse (An), Evaluate (E), Create (C)

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

DETAILED SYLLABUS:

Module	Unit	Content	Hrs	Marks
I	Introduction to Agricultural Economics		12	20
	1	Meaning, Nature and Scope of Agricultural Economics.	2	
	2	Role of agriculture in economic development	1	
	3	Models of agricultural development (Schultz, Lewis, Fei& Ranis, Mellor, and Boserup)	5	
	4	Interdependence between agriculture and industry	1	
	5	Terms of trade between agriculture and industry	1	
	6	Types of farming	2	
II	Economics of Agricultural Production		18	25
	7	Application of production function in Agriculture- Increasing and decreasing production function, Law of variable proportion, and the application of Cobb-Douglas production function in Agriculture	4	
	8	Factor- Product relationship	2	
	9	Factor-Factor relationship	2	
	10	Product-Product relationship	2	
	11	General condition of equilibrium covering all the relationships	2	
	12	Farm budgeting approach	2	
	13	Size of the Farm and Productivity debate	2	
	14	Measures of Farm Efficiency	2	
III	Behaviour of Demand, Supply and Agricultural prices		10	15
	15	Instability of agriculture-price instability, income instability, inelastic demand for and supply of agricultural products and measures for reducing instability in agriculture	2	
	16	Different views about supply response in agriculture	2	
	17	Objectives and elements of agricultural price policy	2	
	18	Features of an ideal agricultural price policy	2	
	19	Agricultural price policy in India and the need for revision of agricultural price policy in India	2	
IV	Agricultural Marketing		8	10
	20	Types of agricultural marketing	2	
	21	Efficiency of agricultural marketing and the measures to improve the efficiency of agricultural marketing in India	4	
	22	Measurement of marketable and marketed surplus	2	
V	Open Ended (Arrange any two activities)		12	
	1	Student led seminar on green revolution and ever green revolution		
	2	Discussion on rural unemployment and rural indebtedness		
	3	Assignment on land reforms and its impact on agriculture		
	4	Critically evaluate the role of WTO in Indian agriculture by analysing the reports related to World trade organisation and Indian agriculture		
	5	Organise a debate on Capital formation in Indian Agriculture-Public versus private investment		

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:

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

ADDITIONAL READINGS

9. 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
10. S.A.R Bilgrami (2011), *An Introduction to agricultural Economics*, 2ND Edition, Himalaya publishing house, Mumbai.
11. Majumdar NA and Kapila Uma (2006), *Indian Agriculture in the New Millennium Changing Perspective and Development Policy*, Vol. I &II, Academic Foundation, New Delhi.
12. Vaidyanathan A (2010), *Agricultural Growth in India: The Role of Technology, Incentives and Institutions*, Oxford University Press, New Delhi.
13. A.N Agrawal (2006), *Indian Economy; Problems of Development and Planning*, 32ND Edition, New Age International (p) Ltd. New Delhi.

MAPPING OF COs WITH PSOs:

	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	-	-

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%)

MAPPING OF COs TO ASSESSMENT RUBRICS:

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

Programme	B.A. Development Economics Honours				
Course Title	INDIAN FINANCIAL MARKETS				
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	Basic Economics Course of 200 – 299 level				
Course Summary	This course delves into the functioning and intricacies of financial markets, providing students with a comprehensive understanding of fundamental concepts, financial instruments, market structures, and services.				

COURSE OUTCOMES (CO):

CO	CO Statement	Cognitive Level*	Knowledge Category#	Evaluation Tools used
CO1	Understand the basic concepts of financial markets, financial instruments, and financial services.	U	C	Instructor-created exams / Quiz
CO2	Analyze theories of market efficiency, investment strategies, and risk management.	An	P	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	P	Instructor-created exams / Home Assignments
CO5	Foster critical thinking on financial market reforms, corporate governance, and ethical considerations in finance.	Ap	F	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)				

DETAILED SYLLABUS:

Module	Unit	Content	Hrs	Marks
I	An Introduction to Indian Financial System		10	12
	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	
	4	Components of Formal Financial Sector in India -	1	
	5	Financial Institutions-	1	
	6	Financial Markets	1	
	7	Financial Instruments - Financial services	1	
	8	Components of Informal financial sector in India	1	
II	Indian Financial System - An Overview		15	24
	9	Phase I - Pre 1951 Organisation	2	
	10	Phase II - 1951 to mid-eighties	3	
	11	Phase III - Post Nineties	2	
	12	Economic Reforms	2	
	13	Financial Sector Reforms	3	
	14	Committees and Recommendations	3	
III	Money Market in India		15	24
	15	Money Market - Definition- Functions	1	
	16	Role of Reserve Bank of India-	2	
	17	Steps to develop Money Market in India	1	
	18	Money Market Instruments - T-Bills, Commercial Papers, Commercial Bills, Certificates of Deposits- Call/Short Notice Money- Collateralised Borrowing and Lending Obligation (CBLO)	5	
	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	
IV	Capital Market in India		8	10
	20	Capital Market - Definition- Functions - Components - Capital Market Instruments - History of Indian Capital Market - Reforms in Indian Capital Market	3	
	21	Primary Market and Secondary Market - Instruments, Methods of raising capital, Role of Stock Exchanges - BSE and NSE, Trading Mechanism in Stock Exchanges	3	
	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		
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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. 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,III, 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/nss-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%)

MAPPING OF COs TO ASSESSMENT RUBRICS:

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

Programme	B.A. Development Economics Honours				
Course Title	DEMOGRAPHY				
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 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 demographic issues in a developing country like India.				

COURSE OUTCOMES (CO):

CO	CO Statement	Cognitive Level*	Knowledge Category#	Evaluation Tools used
CO1	Understand the basic concepts, theories, policies and data sources of demography	U	C	Instructor-created exams / Quiz
CO2	Analyse the population dynamics with respect to fertility, mortality, nuptiality, migration and urbanisation	An	p	Instructor-created exams/ Practical Assignment /
CO3	Examine the age and sex composition of population in developed and less developed countries	E	C	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.	E	C	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	C	P	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) Metacognitive Knowledge (M)				

DETAILED SYLLABUS:

Module	Unit	Content	Hrs	Marks
I	Introduction to Demography		12	17
	1	Nature and scope of population studies, population studies and Demography	1	
	2	Interrelation between Population studies and other Disciplines	1	
	3	Development of population studies	2	
	4	Theories of Population Malthusian Theory, Optimum theory of population and theory of demographic transition	4	
	5	Sources of demographic data in India- Census, Civil Registration System, National Sample Survey, Demographic Survey – National Family Health survey (Recent report in detail)	4	
II	Population Dynamics		16	23
	6	Fertility- Meaning, Fecundity and fertility, sterility, Natural fertility, Factors affecting fertility.	2	
	7	Basic measures of Fertility: crude birth rate (CBR), general fertility rate (GFR), child-woman ratio (CWR), Age specific Fertility rate (ASFR), total fertility rate (TFR), gross reproduction rate (GRR), and net reproduction rate (NRR).	2	
	8	Mortality -Meaning; Sources of mortality Data, Factors affecting mortality	2	
	9	Basic measures of mortality: Crude death rate (CDR), Age specific death rate (ASDR), infant mortality rate (IMR), crude mortality rate (CMR), maternal mortality ratio (MMR), Neonatal mortality rate (NMR), standardised death rate (SDR) and Life tables	2	
	10	Nuptiality- Meaning; Concepts- age at marriage, Synthetic and decadal synthetic cohort methods- Mean age at widowhood and divorce- Trends in age at marriage	2	
	11	Migration: General terms and concepts, types of migration, factors affecting migration	3	
	12	Urbanization: concept and measurement, Recent trends in urban population.	3	
III	Age and Sex Composition of population		10	15
	13	Age pyramids: types, concepts of stationary, stable and quasi - stationary population	2	
	14	Patterns of sex and age structure in developed and developing countries	2	
	15	Age and sex structure in India	2	
	16	Benefits and issues associated with Demographic dividend	2	
	17	Ageing of population	2	
IV	Population policy in India		10	15
	18	History of Family planning in India	2	
	19	Family Planning Programme– Organisational structure, approaches to family planning programme implementation, family planning methods and achievements	3	
	20	The child survival and safe motherhood (CSSM) Programme	2	
	21	Reproductive and child health programme (RCH)	1	

	22	National Population Policy 2000	2	
V	Open Ended Module		12	
	1	construct and interpret life tables based upon the latest population data		
	2	Conduct a ward level population survey to identify the age and sex composition of particular locality		
	3	Student-led seminars on key global demographic trends		
	4	Debate on population growth and sustainable development.		

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%)

MAPPING OF COs TO ASSESSMENT RUBRICS:

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

Programme	B.A. Development Economics Honours				
Course Title	BASIC METHODS FOR ECONOMIC RESEARCH				
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 course of 200 – 299 level				
Course Summary	This course seeks basic information about research and its ideas, literature, formation, analysis, interpretation, and presentation.				

COURSE OUTCOMES (CO):

CO	CO Statement	Cognitive Level*	Knowledge Category#	Evaluation Tools used
CO1	Understand the historical and philosophical ideas of social research.	U	C	Instructor-created exams / Quiz
CO2	Identification of a research problem and analysis of its cause-and-effect relationship.	An	P	Practical Assignment
CO3	To apply scientific Methods in research.	Ap	F	Seminar Presentation / Group Discussion
CO4	To analyse and interpret data with appropriate tools	Ap	C	Instructor-created exams / Home Assignments
CO5	Create new research tools, concepts, and theories and apply to present world situation.	E	M	Viva
CO6				

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

DETAILED SYLLABUS:

Module	Unit	Content	Hrs	Marks
I	Fundamentals of Research		11	15
	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	
	4	Types of research– Descriptive v/s Analytical, Applied	4	
		v/s Fundamental, Quantitative v/s Qualitative,		

		Conceptual v/s Empirical		
	5	Scientific and Social research	1	
	6	Special features of social research	1	
	7	Different approaches in social research.	1	
	8	The importance of surveying existing literature in economic research.	1	
II	Research Design		13	20
	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	
	11	Research design – Basic Principles- Need of research design — Features of good research design – Components of Research Design	3	
	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	
III	Sources and Collection of Data		9	13
	14	Execution of the research - Observation and Collection of data	1	
	15	Methods of data collection – Primary data and Secondary data	1	
	16	Primary Data - Meaning, sources, merits and demerits, collection of Data - survey method, observation method, Interview method, questionnaires, schedules	5	
	17	Secondary data – Meaning, sources, merits and demerits	1	
	18	Concepts of Universe, Population and sample.	1	
IV	Analysis of Data and Presentation		15	22
	19	Data preparation and preliminary analysis - editing, coding, data entry, exploring, displaying.	5	
	20	Examining data - frequency tables, bar charts, pie charts, histograms, use of percentages	4	
	21	Reporting and report writing	1	
	22	Components – prefatory items, introduction, methodology, findings, conclusions, appendices, bibliography, referencing and footnotes.	5	
V	Open Ended Module		12	
	1	Application of statistical tools in economic research		
	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.
5. Sinha, S.C. and Dhiman, A.K., 2002. *Research Methodology*, Ess Publications. 2 volumes.
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.
11. Fink, A., 2009. *Conducting Research Literature Reviews: From the Internet to Paper*. Sage Publications
12. Adler, E. S. And Clark, R. (2011). *An Invitation to Social Research*. Belmont, CA: Cengage Learning
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%)

MAPPING OF COs TO ASSESSMENT RUBRICS:

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

Programme	B.A. Development Economics Honours				
Course Title	ECONOMIC GEOGRAPHY				
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 Course of 200 – 299 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.				

COURSE OUTCOMES (CO):

CO	CO Statement	Cognitive Level*	Knowledge Category#	Evaluation Tools used
CO1	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	C	Instructor-created exams / Quiz
CO3	Analyse and apply key concepts and theoretical approaches in economic geography	An	P	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	Ap	C	Instructor-created exams / Home Assignments
CO6	Discuss policy options for overcoming inequality and uneven development in the globalising world	E	M	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)				

DETAILED SYLLABUS:

Module	Unit	Content	Hrs	Marks		
I	Space and Economy: Some facts		8	12		
	1	Spatial Inequalities: A Brief Historical Overview	3			
	2	The Space-Economy and the Industrial Revolution	2			
	3	Regional Disparities: When an Ancient Phenomenon Becomes Measurable	3			
II	Space in Economic Thought		21	31		
	4	Economics and Geography: A Puzzling History of Reciprocal Ignorance	3			
	5	Definition of Economic Geography	2			
	6	Nature of Economic Geography	2			
	7	Scope and importance of Economic Geography	2			
	8	Recent trends and approaches in economic geography.	2			
	9	Neo-classical-inspired	2			
	10	Location theory	2			
	11	Marxist-inspired approaches,	2			
	12	Evolutionary and institutionalist inspired approaches,	2			
	13	New economic geography	2			
	III	Economic Activity and Space			6	9
		14	Location of Economic Activity-Agricultural Location theory of Von Thunen.		2	
15		Location of Secondary Activity- Industrial Location Theory of A.Weber and E. Hoover	2			
	16	Location of Tertiary Activity-Contribution of Walter Christaller and August Losch.	2			
IV	New Economic Geography (NEG)		13	18		
	17	Emergence of a new global economy -transnational integration and its spatial outcomes.	3			
	18	Core-Periphery Model (Krugman Model)	2			
	19	Baldwin-Forslid Model	2			
	20	Venables Model	2			
	21	Helpman-Krugman Model	2			
	22	Melitz Model	2			
V	Open ended module		12			
		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 Geography Sections from the Dictionary of Human Geography
3. Clark, G.L., M.P. Feldman and M.S. Gertler (eds) *The Oxford Handbook of Economic Geography*. (Oxford; New York: Oxford University Press, 2003) [ISBN 9780199250837].
4. Dicken, P. *Global Shift: Mapping the Changing Contours of the World Economy*. (London: Sage, 2007) fifth edition [ISBN 9781593854362].
5. Dicken, P. and P. Lloyd *Location in Space: Theoretical Perspectives in Economic Geography*. (New York: Harper Collins Publishers, 1990) third edition [ISBN 9780060416775].
6. Ellwood, W. *The No-nonsense Guide to Globalization*. (London: Verso, 2001) [ISBN 9781904456445]. Hudson, R. *Economic Geographies: Circuits, Flows and Spaces*. (London: Sage, 2005) [ISBN 9780761948940].
7. Knox, P. and J. Agnew *The Geography of the World Economy*. (London: Arnold; New York: John Wiley and Sons, 2008) fifth edition [ISBN 9780340948354].
8. MacKinnon, D. and A. Cumbers *An Introduction to Economic Geography: Globalization, Uneven Development and Place*. (Harlow: Pearson/Prentice Hall, 2007) [ISBN 9780131293168].
9. Pike, A., A. Rodriguez-Pose and J. Tomaney *Local and Regional Development*. (London and New York: Routledge, 2006) [ISBN 9780415357180].
10. Sheppard, E. and T.J. Barnes (eds) *A Companion to Economic Geography*. (Malden, MA: Blackwell, 2002) [ISBN 9780631235798]. Stiglitz, J. *Globalization and its Discontents*. (London: Penguin, 2002) [ISBN 9780393324396]

Journals

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

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

MAPPING OF COs WITH PSOs:

	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6	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%)

MAPPING OF COs TO ASSESSMENT RUBRICS:

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

Programme	B.A. Development Economics Honours				
Course Title	POVERTY AND INEQUALITY ANALYSIS				
Type of Course	Elective				
Semester	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 on Microeconomics and Macroeconomics of level 300 – 399				
Course Summary	This course provides an overview on Poverty and Inequality provides tools to measure, describe, monitor, evaluate, and analyze poverty. It provides background materials for designing poverty reduction strategies. This paper is intended for researchers and policy analysts involved in poverty research and policy making.				

COURSE OUTCOMES (CO):

CO	CO Statement	Cognitive Level*	Knowledge Category#	Evaluation Tools used
CO1	Understand the basic concepts and models of Poverty and Inequality related to the economic development of a country	U	C	Instructor-created exams / Quiz/ Assignments
CO2	To provide tools to measure, describe, monitor, evaluate, and analyze poverty. It also provides background materials for designing poverty reduction strategies.	An	C	Instructor-created exams /Practical Assignment
CO3	It is designed to be accessible to people with a university-level background in science or social sciences. It treats the material at a degree level, with an emphasis on intuitive explanations and practical examples.	E	C	Instructor-created exams /Seminar Presentation / Group Discussion
CO4	It also provides the skills needed to be able to work on poverty analysis	An	C	Instructor-created exams / Home Assignments

	straightaway, and gives a solid foundation for those headed toward a research career in the subject.			
CO5	To encourage critical thinking on Poverty and Inequality and open-ended discussions on their potential contributions.	An	P	Writing assignments/ Survey / Seminar/ presentation/ Group Discussion
* - Remember (R), Understand (U), Apply (Ap), Analyse (An), Evaluate (E), Create (C) # - Factual Knowledge(F) Conceptual Knowledge (C) Procedural Knowledge (P) Metacognitive Knowledge (M)				

DETAILED SYLLABUS:

Module	Unit	Content	Hrs	Marks
I	Introduction to Poverty and Inequality and measurements		12	20
	1	Poverty and inequality-concepts	1	
	2	The Concepts of Well-Being and Poverty	2	
	3	Measuring Poverty- Introduction: Steps in Measuring Poverty	2	
	4	Measuring Poverty-Choosing an Indicator of Welfare	1	
	5	Poverty Lines- Introduction: Defining a Poverty Line, Relative Poverty, Absolute Poverty	1	
II	Poverty Indexes and Inequality Measures		14	25
	7	Introduction- Sampling Error, Measurement Error, Equivalence	4	
	8	Inequality Measures-Introduction: Definition of Inequality,	3	
	9	Gini Coefficient of Inequality-Generalized Entropy Measures	2	
	10	Atkinson's Inequality Measures	1	
	11	Inequality Comparisons	1	
	12	Measuring Pro-Poor Growth	1	
	13	Decomposition of Income Inequality	1	
III	Describing Poverty: Poverty Profiles and Understanding the Determinants		10	15
	15	Introduction: Poverty Profile, Additive Poverty Measures, Profile	3	
	16	Poverty Comparisons over Time, Poverty Mapping		
	17	Introduction: Causes of Poverty, Region-Level	3	

		Characteristics,		
	18	Household and Individual-Level Characteristics: Demographic Characteristics, Economic Characteristics, Social Characteristics	2	
	19	Analyzing the Determinants of Poverty: Regression Techniques	2	
IV	Programmes for Poverty Alleviation		12	10
	20	Planning for Alleviation of Rural Poverty in India-Trickle-Down	3	
	21	SFDA, IRDP, NREP AND RLEGP-Minimum Needs Programme (MNP)	3	
	22	Fund availability, Delivery System, Poverty Alleviation	6	
V	Open Ended (Arrange any two activities)		12	
	1	Student led seminar on Dimensions of Poverty		
	2	Discussion on Poverty: Rural and Urban		
	3	Assignment on Poverty Reduction Policies and International Poverty Comparisons		
	4	What are the dimensions of poverty in India?		
	5	Organise a debate on Poverty Disparities		

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:

- Jonathan Houghton Shahidur R. Khandker Handbook on Poverty and Inequality the International Bank for Reconstruction and Development/The World Bank (**Module 1,2&3**)
- Poverty and Deprivation Changing Contours Edited by K. B. SAXENA Volume V SAGE Publications India Pvt Ltd (**Module 3&4**)

ADDITIONAL READINGS:

- Amartya Sen, Poverty and Famines: An Essay on Entitlement and Deprivation, Oxford University Press
- Jeffrey D.Sachs The End of Poverty, Penguin Books
- Peter Edward and Andy Sumner, The End of Poverty: Inequality and Growth in Global Perspective Palgrave macmillan
- Jayaraj D and Subramanian S (2010): Poverty, Inequality and Population- Oxford University Press, New Delhi.
- CDS (1975): Poverty Unemployment and Development Policy: A Case Study of Selected Issues with Reference to Kerala- CDS, Trivandrum.
- VM Dandekar and Nilakant Rath: Poverty in India- Indian School of Political Economy, Pune, 1971.

7. CT Kurien: Poverty, Planning and Social Transformation in India- Allied Publishers, Delhi, 1978.

8. Ministry of Finance: Economic Survey-Various Issues

MAPPING OF COs WITH PSOs:

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

MAPPING OF COs TO ASSESSMENT RUBRICS:

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

Programme	B.A. Development Economics Honours				
Course Title	BANKING AND INSURANCE				
Type of Course	Elective				
Semester	VIII				
Academic Level	400 – 499				
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	Students understand the banking and insurance practices. And at the end of the Course student will be able to evaluate banking procedure and also take up job in banks and insurance sector.				

COURSE OUTCOMES (CO):

CO	CO Statement	Cognitive Level*	Knowledge Category#	Evaluation Tools used
CO1	Understand the concept of banking and insurance	U	C	Instructor-created exams / Quiz
CO2	Analyze various banking services and insurance policies	Ap	P	Practical Assignment / Observation of Practical Skills
CO3	Evaluate different insurance and banking services	U	P	Seminar Presentation / Group Discussion
CO4	Apply the knowledge in day-to-day banking practices	Ap	C	Instructor-created exams / Home Assignments
CO5	Understand the practical knowledge in banking services	U	F	Writing assignments
CO6	Prepare students to take up jobs in banking and insurance sector	Ap	P	Visiting websites to understand and prepare for the examinations for IPBS and IRDA's insurance agent
* - Remember (R), Understand (U), Apply (Ap), Analyse (An), Evaluate (E), Create (C) # - Factual Knowledge(F) Conceptual Knowledge (C) Procedural Knowledge (P) Metacognitive Knowledge (M)				

DETAILED SYLLABUS:

Module	Unit	Content	Hrs	Marks
I	Types of Banks		14	20
	1	Banks- meaning and economic importance	2	
	2	types of banks- Central Bank- Commercial banks- Development banks, Cooperative banks- Structure and functioning	2	
	3	Development financial institutions (IFCI, IDBI, IIBI, SIDBI) - Specialized financial institutions (EXIM Bank-National Housing Bank-NABARD-MUDRA bank)	3	
	4	Specialized investment institutions (Pension funds- Hedge funds- Mutual funds -UTI)-	2	
	5	Non Banking Financial Companies-Investment banks-Merchant banks.	5	
II	Banking Services		10	15
	6	Types of accounts, KYC and Bank account, Loans, Money Transfer, Credit and debit cards, Lockers.	3	
	7	Innovations in Banking Transactions-Mail transfer-Telegraphic transfer-MICR clearing- Automated clearing system-Electronic funds transfer-	2	
	8	Digital payment system- E-banking-Virtual payments systems	1	
	9	Internet banking- Mobile banking and mobile application, Home banking-Tele-banking-Core banking.	1	
	10	Why is Customer Service Important, key areas of customer's services, Customer service strategies in banking sector	2	
	11	Customer feedback and complaints	1	
III	Banking Sector Reforms in India		10	15
	12	Banking sector reforms since 1991- Context, need and objectives-Implementations of the Narsimham Committee recommendations-	2	
	13	Issues in banking sector reforms-	1	
	14	Priority sector lending-Asset classification	2	
	15	Non-performing assets-Capital adequacy norms-	2	
	16	Regulation of the banking sector-Board for Financial Supervision-Credit Information Bureau of India Limited (CIBIL)-Banking	2	
	17	Ombudsman-SARFAESI Act.	1	
IV	Insurance		14	20
	18	Introduction to insurance: Purpose and need of insurance: Insurance as a social security tool	2	
	19	Insurance and economic development	2	
	20	Fundamental Principles of Insurance, Reinsurance	2	
	21	Types of Insurance: Life Insurance, General Insurance: Marine, Fire, Medical, Health etc.	5	
	22	Actuarial science meaning, Regulatory agencies of insurance in India	3	
V	Open ended module		12	
		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 InstitutionsandMarkets-TataMcGrawHill.
3. Roger LeRoy Miller and DavidVanHoose (1993): Modern Money and Banking-McGraw-Hill International.
4. Mishra M.N: Insurance Principles and practice; S. Chand and co, New Delhi.
5. Insurance principles and practice - Moorthy.A , Margham publications, Chennai
6. Jawed Akhtar and Shabbir Alam: Banking System in India: Reforms and Performance Evaluation- New Century Publications, New Delhi.

MAPPING OF COs WITH PSOs:

	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6	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

CORRELATION LEVELS:

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

ASSESSMENT RUBRICS:

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

MAPPING OF COs TO ASSESSMENT RUBRICS:

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

Programme	B.A. Development Economics Honours				
Course Title	ECONOMICS OF EDUCATION				
Type of Course	Elective				
Semester	VIII				
Academic Level	400 - 499				
Course Details	Credit	Lecture per week	Tutorial per week	Practical per week	Total Hours
	4	4	-	-	60
Pre-requisites	Basic Economics Courses of 200 – 299 level				
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.				

COURSE OUTCOMES (CO):

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	P	Practical Assignment / Observation of Practical Skills
CO3	To understand the economic imperative of manpower planning and human resource development for a country	U	P	Seminar Presentation / Group Discussion
CO4	To get an overview of the education scenario of both India and Kerala	Ap	P	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)				

DETAILED SYLLABUS:

Module	Unit	Content	Hrs	Marks
I	Education, Economics and the Modern Society		10	14
	1	Education in the modern world	2	
	2	Socio-economic significance of education	2	
	3	Economists' perception of education	2	
	4	Education as a public/merit good	2	
	5	Economics of education: The subject matter, framework and significance	2	
II	Education and Economic Development		12	18
	6	Education as the prime mover of modern society	2	
	7	Education and economic growth	2	
	8	Indicators of economic and educational development	2	
	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	
III	Cost and Benefits of Education		12	18
	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	
	14	Rate of return analysis	2	
	15	Input-output analysis	2	
	16	Wastage and stagnation in education	1	
	17	Educational budgets	1	
IV	Human Capital and Manpower Planning		14	20
	18	Economic imperative of human capital	2	
	19	Human resource development – Process of human resource development – Indicators of human resource development –	5	
	20	Linking education with the economy	2	
	21	Educational planning	2	
	22	Manpower planning – Features and techniques of manpower planning and forecasting	3	
V	Open Ended Module		12	
		Discussion based on the primary, secondary, higher secondary and higher education scenario of India and Kerala		
		Practical Assignments on Initiatives for educational development		
		Seminar on the new education policy and its impacts on the national and regional economy		

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*.

MAPPING OF COs WITH PSOs:

	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	-

CORRELATION LEVELS:

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

ASSESSMENT RUBRICS:

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

MAPPING OF COs TO ASSESSMENT RUBRICS:

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

Programme	B.A. Development Economics Honours				
Course Title	LAW AND ECONOMICS				
Type of Course	Elective				
Semester	VIII				
Academic Level	400 – 499				
Course Details	Credit	Lecture per week	Tutorial per week	Practical per week	Total Hours
	4	4	-	-	60
Pre-requisites	Microeconomics course of 200 – 299 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				

COURSE OUTCOMES (CO):

CO	CO Statement	Cognitive Level*	Knowledge Category#	Evaluation Tools used
CO1	Understand how the legal aspect influences the economic behaviour and understand major legal traditions, especially in India.	U	C	Instructor-created exams / Quiz
CO2	Conduct economic analysis of law related to the regulation and enforcement of property rights and contracts.	Ap	P	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	P	Seminar Presentation / Group Discussion
CO4	Apply economics in the theory of property rights and contract law.	Ap	C	Instructor-created exams / Home Assignments/Cases in the Indian context
CO5	Create alternative cases in property rights and contract law in the Indian context, with the insights gained from the course, which provide better policy insights.	U	F	Writing assignments
CO6	Demonstrate critical thinking and problem-solving skills by applying the acquired knowledge to address complex economic challenges in law in the contemporary world.	Ap	P	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	COURSE CONTENT	Hours	Marks
I	An Introduction to Law and Economics		12	18
	1	Economic analysis of law	1	
	2	Why should Economists study law?	2	
	3	How to analyze legal and economic issues.	2	
	4	The Primacy of efficiency over distribution in analyzing private law	2	
	5	Efficiency criteria – Pareto, Kaldor-Hicks	2	
	6	Nash Equilibrium, Fairness Criteria.	2	
	7	Markets and efficiency and Market failure	1	
II	An Introduction to Law and Legal Institutions		6	10
	8	The Civil law and the common law traditions.	1	
	9	The institutions of Judicial systems in India –	1	
	10	Legal Principles, and the functioning of Legal system	2	
	11	Economic Theory of Legal Process - Sue - Trial –Appeals – Judiciary - Lawyers’ Profession.	2	
III	Theory of Property Right		15	21
	12	The Nature and Function of Property Rights -	1	
	13	The origin of institution of property - The Legal Concept of Property.	2	
	14	Enforcement of property rights - Bargaining Theory - An Economic Theory of Property –	4	
	15	Property Rights and Coase Theorem	2	
	16	The Public Use of Private Property	2	
	17	Eminent domain and Regulation of Property – Applications.	2	
	18	An Introduction to Intellectual Property Rights (IPRs).	2	
IV	The Economics of Contract Law		15	21
	19	An Introduction to Contracts	1	
	20	Complete and Incomplete Contracts - The Elements of Valid and Invalid Contracts.	3	
	21	Bargaining theory- Economic Theory of Contract.	6	
	22	Contracts and Efficient Exchange - Legal Remedies as Incentives: Applications.	5	
V	Open Ended Module		12	
	Various Case Studies in Economics Property Rights – Various Case 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.

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	-	-
CO 5	3	-	-	-	-	-	2	-	-
CO 6	-	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%)

MAPPING OF COs TO ASSESSMENT RUBRICS:

	Internal Exam	Quiz / Assignment/	Practical Assignment	End Semester Examination
CO 1	✓	✓		✓
CO 2	✓		✓	✓
CO 3	✓	✓		✓
CO 4	✓	✓		✓
CO 5		✓	✓	
CO 6			✓	

Programme	B.A. Development Economics Honours				
Course Title	LOCAL LEVEL PLANNING				
Type of Course	Elective				
Semester	VIII				
Academic Level	400 - 499				
Course Details	Credit	Lecture per week	Tutorial per week	Practical per week	Total 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.				

COURSE OUTCOMES (CO):

CO	CO Statement	Cognitive Level*	Knowledge Category#	Evaluation Tools used
CO1	Understand various local government institutions	U	C	Instructor-created exams / Quiz
CO2	Analyse the role of decentralization process	An	P	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	Ap	C	Instructor-created exams / Home Assignments
CO5	Create complete understanding of the local level planning	U	F	Viva
CO6				
* - Remember (R), Understand (U), Apply (Ap), Analyse (An), Evaluate (E), Create (C) # - Factual Knowledge(F) Conceptual Knowledge (C) Procedural Knowledge (P) Metacognitive Knowledge (M)				

DETAILED SYLLABUS:

Module	Unit	Content	Hrs	Marks
I	Introduction to Panchayati Raj Institutions		12	17
	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	
	4	Features of Panchayati Raj Institutions	2	
	5	The 73 rd and 74 th Constitutional Amendments	2	
II	The process of Decentralization		9	14
	6	Decentralized Planning in Kerala	2	
	7	How Kerala is Different	1	
	8	History – Evolution – importance of People’s plan movement	3	
	9	The role of Kudumbashree	3	
III	The concept of Project Appraisal		12	17
	10	The role of Local Government Agencies (LGAs) in Project Appraisal Framework	2	
	11	Introduction to Project Evaluation	1	
	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	
	13	Steps to conduct a project evaluation	2	
	14	challenges in Project monitoring and evaluation	2	
IV	The Local and regional Development		15	22
	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	
	18	Traditional model	2	
	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)**

MAPPING OF COs WITH PSOs:

	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	-	-

CORRELATION LEVELS:

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

ASSESSMENT RUBRICS:

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

MAPPING OF COs TO ASSESSMENT RUBRICS:

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

Programme	B.A. Development Economics Honours				
Course Title	TOOLS FOR DECISION MAKING IN ECONOMICS				
Type of Course	Elective				
Semester	VIII				
Academic Level	400 – 499				
Course Details	Credit	Lecture per week	Tutorial per week	Practical per week	Total Hours
	4	4	-	-	60
Pre-requisites	Basic economic course level 400-499				
Course Summary	This course enables the students to understand the nature and scope of various decision-making situations within business contexts, understand and apply operation research techniques to industrial applications				

COURSE OUTCOMES (CO):

CO	CO Statement	Cognitive Level*	Knowledge Category#	Evaluation Tools used
CO1	Understand the concepts and significance of optimization techniques.	U	C	Instructor-created exams / Quiz/ Assignments
CO2	Analyse how various techniques are employed to derive extreme values.	An	C	Instructor-created exams /Practical Assignment
CO3	Evaluate the complex business decision issues using mathematical models	E	C	Instructor-created exams /Seminar Presentation / Group Discussion
CO4	Apply quantitative techniques for effective decision making in solving business issues.	An	C	Instructor-created exams / Home Assignments
CO5	Critically evaluate the assumptions underlying optimization models and assess their applicability to specific economic situations.	An	P	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)				

DETAILED SYLLABUS:

Module	Unit	Content	Hrs	Marks
I	Linear Programming Problem		13	20
	1	Meaning, assumptions and basic concepts	2	
	2	Formulation of LPP	2	
	3	Graphical Method	3	
	4	Simplex Method	3	
	5	Duality in LPP	3	
II	Transportation Problems		15	25
	6	Meaning of Transportation Problem	1	
	7	Transportation table	1	
	8	North West Corner Rule	2	
	9	Least Cost Method	2	
	10	Vogel's Approximation Method	2	
	11	MODI Method	3	
	12	Balanced and unbalanced Transportation problems	2	
	13	Maximisation in Transportation problem	2	
III	Assignment Problems		10	15
	14	Meaning of an assignment problem	2	
	15	Hungarian Method- Procedure and optimality	3	
	16	Types- Balanced vs Unbalanced	2	
	17	Maximisation Problem	3	
IV	Game Theory		10	10
	18	Essentials of a Game	2	
	19	Pure strategy game solution – saddle point	2	
	20	Solution of a mixed strategy – odds method	2	
	21	Principle of Dominance	2	
	22	Graphical Method	2	
V	Open Ended (Arrange any two activities)		12	
	1	Assignment on optimization topics		
	2	Seminar on various mathematical optimization models		
	3	Discussion on importance of optimization tools in managerial decisions		

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. J.K Sharma. 1997. Operations Research- Theory and Applications.
2. William J. Baumol. 1999. Economic Theory and Operations Analysis. New Delhi: Prentice Hall of India
3. Philips Ravindran and Solberg. Operations Research, principles and Practice, John Wiley.

ADDITIONAL READINGS:

1. S.P. Gupta: Statistical Methods, Sultan Chand and Sons, New Delhi.
2. Hamdy A. Taha: Operations Research-An Introduction, Prentice Hall, 9th Edition, 2010.
3. A. Ravindran, D. T. Phillips and James J. Solberg: Operations Research- Principles and Practice, John Wiley & Sons, 2005.
4. F.S. Hillier. G.J. Lieberman: Introduction to Operations Research- Concepts and Cases, 9th Edition, Tata Mc-Graw Hill, 2010

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%)

MAPPING OF COs TO ASSESSMENT RUBRICS:

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

General Foundation Courses in Economics

Programme	B.A. Development Economics Honours				
Course Title	SECURITY TRADING PRACTICES				
Type of Course	MDC				
Semester	I				
Academic Level	100 – 199				
Course Details	Credit	Lecture per week	Tutorial per week	Practical per week	Total 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 investments.				

COURSE OUTCOMES (CO):

CO	CO Statement	Cognitive Level*	Knowledge Category#	Evaluation Tools used
CO1	Students will acquire a conceptual foundation in the field of investments.	U	C	Instructor-created exams / Quiz
CO2	Learners will gain skills in designing and managing both bond and equity portfolios in real-world scenarios.	Ap	P	Practical Assignment using paper trading app
CO3	Students will be able to value various financial instruments, including equity and debt securities	An	P	Seminar Presentation / Group Discussion
CO4	Evaluate the characteristics of various avenues of investment.	E	M	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)				

DETAILED SYLLABUS:

Module	Unit	Content	Hrs	Marks
I	Investment Environment, Markets and Instruments		8	11
	1	Financial Market—Primary and Secondary market	1	
	2	instruments of secondary market;	1	
	3	Major Agencies of Secondary market: NSE, BSE, CDSL, NSDL, SEBI	2	
	4	Different types of trading—overview of derivative market, futures and options, Major indices of BSE and NSE.	2	
	5	Different trader in the secondary market—FIIs, DIIs, retailers	2	
	Equity Selection		8	11
	6	The Fundamental Analysis: Meaning and importance	1	

II	7	Important ratios; Price-to-Earnings (P/E) ratio-Price-to-Book (P/B) ratio -Dividend Yield, Earnings Per Share (EPS), ROCE and ROE, D/EBITDA, EV/ EBITDA	2	
	8	Technical Analysis: Meaning and importance	2	
	9	important methods—chart, candle sticks-- important indicators namely, Support, resistance, RSI, Moving Average, volume, price channel, VIX –	3	
III	Portfolio Creation		8	11
	10	Theories of portfolio creation: Capital Asset Pricing Model (CAPM), Arbitrage Pricing Theory (APT), Markowitz portfolio theory, Behavioural Portfolio Theory	4	
	11	Different types of Brokers-- Process of opening a demat account with a discount broker--	2	
	12	Maintain trading account details— P& L statement-- capital gain – capital gain tax -- details that are to be included in the income tax return.	2	
IV	Trade Management		12	17
	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	
	16	Trader psychology—need and approach to maintain good psychology by a trader	2	
	17	Practice—download a virtual trading platform and selection	1	
	18	Creating portfolio composing of multiple segments	1	
	19	Getting familiar with the demat account of any one broker preferably select one who do not charge AMC or brokerage fees	2	
V	Open Ended Module		9	
		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		

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 Sinquefeld (Wiley, 5th edition, 2019)

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	-	-

CORRELATION LEVELS:

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

ASSESSMENT RUBRICS:

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

MAPPING OF COs TO ASSESSMENT RUBRICS:

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

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

COURSE OUTCOMES (CO):

CO	CO Statement	Cognitive Level*	Knowledge Category#	Evaluation Tools used
CO1	Understand the Historical foundations and impact of the digital economy.	U	C	Instructor-created exams / Quiz, Assignment
CO2	Analyze business and innovation in the digital age.	An	P	Case Study Analysis,
CO3	Critically evaluate the role of data and analytics.	E	M	Research Paper, Debate Participation
CO4	Assess the policy and social implications of the digital economy.	Ap	p	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)				

DETAILED SYLLABUS:

Module	Unit	Content	Hrs	Marks
I	Foundations of the Digital Economy		12	17
	1	The Rise of the Digital Economy: Historical context, key technologies, economic impact of digital economy on economic growth, productivity and employment.	2	
	2	Definition and Meaning of Digital Economy	1	
	3	Digital Goods and Services: Characteristics, pricing models, and distribution channels.	2	
	4	Platforms and Marketplaces: Two-sided markets, network effects, and platform power.	2	
	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	
II	Business and Innovation in the Digital Age		8	11
	8	E-commerce and Online Retail: Business models, customer behaviour, and logistics challenges.	2	
	9	Logistic – Logistic – models – challenges of E-commerce		
	10	The Sharing Economy: Collaborative consumption, platform competition, and regulatory issues.	2	
	11	Fintech and Financial Innovation: Digital payments, cryptocurrencies, and blockchain technology	2	
	12	Digital Transformation and Strategy: How businesses are adapting to the digital environment.	2	
III	Data and Analytics		8	11
	13	The Role of Data and Analytics – Big data, data analytics, and their importance in the digital economy.	3	
	14	Emerging trends and technologies shaping the future of the digital economy, such as AI, blockchain, and the metaverse.	4	
	15	The ethical implications of data collection and usage	1	
IV	Policy and Social Implications of the Digital Economy		8	11
	16	Competition Policy and Antitrust in the Digital Era: Regulating platform monopolies and market dominance	2	
	17	Intellectual Property and Copyright in the Digital Age: Challenges of protecting digital content and innovation.	2	
	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	
IV	Digital Economy and India		9	
		Discussion based on different digital systems, platforms, technologies, etc. prevailing in India		
		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.

MAPPING OF COs WITH PSOs:

	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	-	-

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%)

MAPPING OF COs TO ASSESSMENT RUBRICS:

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

Programme	B.A. Development Economics Honours				
Course Title	FINANCIAL LITERACY AND PERSONAL FINANCE				
Type of Course	Value Added Course				
Semester	III				
Academic Level	100 – 199				
Course Details	Credit	Lecture per week	Tutorial per week	Practical per week	Total Hours
	3	3	-	-	45
Pre-requisites	Basic course on Economics of 0 – 99 level				
Course Summary	This course provokes the students on the importance of personal financial planning and imparts basic financial literacy principles, with the intention of building in them capability to manage personal finances optimally in various stages of life.				

COURSE OUTCOMES (CO):

CO	CO Statement	Cognitive Level*	Knowledge Category #	Evaluation Tools used
CO1	Understand the basic principles of personal finance and its applications.	U	C	Instructor-created exams / Quiz
CO2	Develop and practice the skill of planning and managing personal finances efficiently.	Ap	P	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	C	Seminar Presentation / Group Discussion
CO4	Understand and apply structured personal financial techniques in real life situations.	Ap	P	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	U	F	Writing assignments

	to acquire a diversified portfolio of financial products in real life.			
CO6	Demonstrate critical thinking and problem-solving skills by applying the acquired knowledge to evaluate complex financial products.	Ap	P	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)				

DETAILED SYLLABUS:

Module	Unit	Content	Hrs	Marks
I	Personal Financial Planning/Financial Literacy		10	14
	Basics of financial planning			
	1	Meaning of financial planning and the importance of financial planning.	1	
	2	Risk vs return (inflation risk, market risk and exchange risk).	1	
	3	Planning for the short, medium and long term.		
	4	Introducing financial products that suit short, medium and long time horizons.	3	
	5	Short term and money market or debt instruments		
	6	Long term and asset backed investments.		
	Time value of money			
	7	Inflation and its impact on personal financial security,	3	
8	Concepts of absolute income and real income.			
9	Concepts of nominal rate of interest and real rate of interest.			
10	Principles of compounding and discounting.	2		
II	The financial planning process		08	11
	11	The fact find or taking stock ones financial situation, identifying present provisions and shortfalls.	3	
	12	Setting SMART (specific, measurable, achievable, realistic, timebound) financial goals.	2	
	13	Concept of diversification-putting your eggs into different baskets.	1	
14	Physical assets like commodities (gold, silver and other precious metals) and properties.	2		
III	Financial products		08	11
	15	Savings bank accounts, current account, fixed deposits, recurring deposits. Introducing and debit cards. Modes of transfers-IMPS, NEFT, RTGS, UPI.	2	
	16	Bonds, debentures and other debt funds.	1	
	17	Equity market products, Risks involved in equity market investments. stocks, shares, equities, mutual funds, derivatives, options.	3	
18	NSE, BSE, OTC Exchange of India. Stock market indices, Nifty, SENSEX, S&P, NASDAQ.	2		
Insurance and pension products			10	

IV	19	Insurance as a risk management device. Life insurance, (introduce various types of life products like term insurance, endowment plans,	2	14
		unit-linked policies (ULIPs etc.), Riders in insurance (eg. critical illness benefit, hospitalisation benefit, permanent total disability etc.). Property and casualty insurance, health/medical insurance. Two rules of calculating life cover-multiples of salary and the inflation rule.	2	
	20	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 auto choice.	2	
	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	
V	Open Ended Module		9	
		Discussion based on the exit of governments from pension provision.		
		Practical Assignments to create a sample personal financial plan for an individual/ family making provisions for emergency funds, savings, insurances and retirement schemes.		
		Seminar/workshop on investor awareness with a focus on stock/equity investments.		

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

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%)

MAPPING OF COS TO ASSESSMENT RUBRICS:

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

Programme	B.A. Development Economics Honours				
Course Title	DIGITAL MARKETING AND E-COMMERCE STRATEGIES				
Type of Course	Value Added Course				
Semester	IV				
Academic Level	100 – 199				
Course Details	Credit	Lecture per week	Tutorial per week	Practical per week	Total Hours
	3	3	-	-	45
Pre-requisites	Basic course on Economics 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.				

COURSE OUTCOMES (CO):

CO	CO Statement	Cognitive Level*	Knowledge Category#	Evaluation Tools used
CO1	Understand the basic principles of marketing	U	C	Instructor-created exams / Quiz
CO2	Develop and practice the skill of planning and managing e commerce	Ap	P	Practical Assignment / Creating a sample personal financial plan
CO3	Help the students master the concept of digital marketing and provide them with necessary skills to run an online business	U	C	Seminar Presentation /Group Discussion
CO4	Understand and apply digital marketing techniques in real business world.	Ap	P	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	Ap	P	Viva Voce
<p>* - Remember (R), Understand (U), Apply (Ap), Analyse (An), Evaluate (E), Create (C) # - Factual Knowledge(F) Conceptual Knowledge (C) Procedural Knowledge (P)Metacognitive Knowledge (M)</p>				

DETAILED SYLLABUS:

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

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%)

MAPPING OF COS TO ASSESSMENT RUBRICS:

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

Programme	B.A. Development Economics Honours				
Course Title	BIG DATA ANALYSIS IN ECONOMICS				
Type of Course	SEC				
Semester	V				
Academic Level	100 - 199				
Course Details	Credit	Lecture per week	Tutorial per week	Practical per week	Total 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 public policies				

COURSE OUTCOMES (CO):

CO	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	Ap	C	Practical Assignment / Observation of Practical Skills
CO3	Evaluate Architectures for big data collection	E	P	Seminar Presentation / Group Discussion
CO4	Apply Big Data for Prediction and Public Policy	Ap	P	Instructor-created exams / Home Assignments
CO5	Create programs for big data analytics	C	M	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) Metacognitive Knowledge (M)

DETAILED SYLLABUS:

Module	Unit	Content	Hrs	Marks
I	The Role of Economic Theory in big data		8	10
	1	Characteristics of Big data.	2	
	2	The need for Analytics and Understanding Analytics: Impact of analytics on business; Being analytically competitive; Models and algorithms in Analytics; The Analytics Methodology	2	

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

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. “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.
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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

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%)

MAPPING OF COS TO ASSESSMENT RUBRICS:

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

Programme	B.A. Development Economics Honours				
Course Title	ECONOMIC RESEARCH WITH R				
Type of Course	SEC				
Semester	VI				
Academic Level	100 – 199				
Course Details	Credit	Lecture per week	Tutorial per week	Practical per week	Total Hours
	3	3	-	-	45
Pre-requisites	Basic Economics, Basic Mathematics and Basic Statistics courses 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.				

COURSE OUTCOMES (CO):

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

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:

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2. 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>
4. <https://r4ds.had.co.nz/>

ADDITIONAL READINGS

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

MAPPING OF COs WITH PSOs:

	PSO1	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
-	Nil
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CO 1	✓	✓		✓
CO 2	✓		✓	✓
CO 3	✓	✓		✓
CO 4	✓	✓		✓
CO 5		✓	✓	✓
CO 6			✓	