PROGRAMME STRUCTURE

SHARDA SCHOOL OF HUMANITIES & SOCIAL SCIENCES

B.A./B.A. (Honours)/B.A. (Honours with Research)
Economics
Programme Code: SHS0131

Batch: 2025-2029

Current Academic Year: 2025-26

NEP 2020 Based Curriculum

2025

1.1 Vision, Mission and Core Values of the University:

Vision of the University

To serve the society by being a global University of higher learning in pursuit of academic excellence, innovation and nurturing entrepreneurship.

Mission of the University

1. Transformative educational experience
2. Enrichment by educational initiatives that encourage global outlook
3. Develop research, support disruptive innovations and accelerate entrepreneurship
4. Seeking beyond boundaries

Core Values

- Integrity
- Leadership
- Diversity
- Community

1.1 Vision, Mission and Core Values of the School:

Vision of the School

To become one of the leading schools of humanities and social sciences by setting global standards of excellence in ingenious curriculum, teaching-learning methods, professional development, and cross-cultural understanding

Mission of the School

M1. To promote learning and employability skills among students.
M2. To promote study of humankind and its manifestation.
M3. To help students succeed in their academic and professional lives.
M4. To encourage research and promote knowledge creation.

Core Values

- Integrity
- Leadership
- Diversity
- Community

1.3.1. Programme Education Objectives (PEO)

PEO1: Students will have leadership capacity to take decisive action by analyzing ideas, events, activities and policies

PEO2: Students will have professional competence to contribute to industry, government and society under the emerging economic, social and ecological environment.

PEO3: Students will imbibe national and global ethical standards in both professional and personal life

1.3.2 Mapping of PEOs with Mission Statements:

PEO Statements	School Mission 1	School Mission 2	School Mission 3	School Mission4
PEO1:	2	3	2	3
PEO2:	3	2	2	-
PEO3:	3	2	2	1

1- Low 2- Medium 3- High

1.3.3 Programme Outcomes of the B. A. Economics:

PO1: Students will be able to explain the core concepts in economics (e.g., opportunity cost, markets, equilibrium, comparative advantage, inflation and growth) and will have an in-depth understanding of the optimization tools used in economics and be able to apply these tools to solve problems in economics.

PO2: Students will able to graphically present data and use statistical and econometric tools for data analysis and attain programming skills and knowledge of statistical software packages used in economics.

PO3: Students will be able to attain important research skills by working on an independent project and ability to comprehend and deal with complex societal problems.

PO4: Students will be able to apply their knowledge in economics to formulate and evaluate economic policies like public workfare programs, taxation, subsidies, trade protection, sustainability etc.

PO5: Students will be able to formulate logical arguments in a written form and able to effectively communicate scholarly material in economics through academic presentations.

PO6: Students will be able to apply their knowledge of research to apply in the real world scenario specifically related to economics and economic problems.

Programme Specific Outcomes of the B. A. (Research) Economics:

PSO1: The behavioural patterns of different economic agents, advance theoretical issues and their applications. Facilitate the historical developments in the economic thoughts propounded by different schools to familiarize students with the contribution of Indian Economic Thinkers and the relevance of their contribution.

PSO2: Understand the basic concept of each field of economics, such as microeconomics, macroeconomics, public finance, monetary economics, international economics, environmental economics etc.

PSO3: Acquaint with some basic statistical and mathematical methods to be applied in economics and the measurement of development with the help of theories along with the conceptual issues of poverty and inequalities with Indian perspectives. Learn the development issues of Indian economy. Familiarize and acquaint with the characteristics of the economy of Uttar Pradesh.

PSO4: Delineate the fiscal policies designed for developed and developing economics. Learn the basic concept of monetary analysis and financial marketing in Indian financial markets. Familiarize the students about issues of ethics in economic thinking and practice.

1.3.4 Mapping of Programme Outcome Vs Programme Educational Objectives

	PEO1	PEO2	PEO3	PEO4
PO1	2	1	-	-
PO2	3	-	2	-
PO3	-	3	3	3
PO4	1	1	1	2
PO5	2	1	-	-
PO6	-	2	3	1
PSO1	3	3	-	-
PSO2	3	3	1	1
PSO3	2	1	3	2
PSO4	2	3	1	2

1.3.5 Programme Outcome Vs Courses Mapping Table:

1st Year [Semester I & II]

	Course Name	PO 1	PO2	PO3	PO4	PO5	PO6	PSO1	PSO2	PSO3	PSO4
Semester-I											
Course 101.1	Principles of Microeconomics-I	3	1	-	2	2	3	3	3	2	2
Course 101.2	Economy of India	1	-	1	2	-	3	3	2	-	1
Course 101.3	Introductory Microeconomics	3	1	-	2	2	3	3	3	2	1
Course 101.4	Principles of Microeconomics-I (Practical)	1	2	2	2	3	3	1	2	2	2
Course 101.5	Database & Data Visualization	-	3	-	-	2	1	-	-	2	-
Course 101.6	Fundamentals of Artificial Intelligence in Economics	-	2	2	-	1	1	-	-	1	-
Course 101.7	Communicative English-1	3	-	2	3	-	1	1	-	2	1
Course 101.8	IKS	1	2	2	-	1	1	-	2	-	-
Semester-II											
Course 201.1	Principles of Macroeconomics -I	3	1	-	2	2	3	3	3	2	2
Course 201.2	Statistical Methods for Economics	1	-	1	2	-	3	3	2	-	1
Course 201.3	Introductory Macroeconomics	3	-	2	3	-	1	1	-	2	2
Course 201.4	Statistical Methods for Economics (Practical)	1	-	1	2	-	3	3	2	-	1
Course 201.5	Environmental Education	2	1	1	1	2	1	1	1	1	1
Course 201.6	Mulyapravah	-	1	1	-	2	1	1	-	1	-
Course 201.7	Communicative English-2	2	1	3	1	3	2	1	1	1	1
Course 201.8	Application of AI in Economics	-	2	2	-	1	1	-	-	1	-

2nd Year [Semester III & IV]

Course	Course Name	PO1	PO2	PO3	PO4	PO5	PO6	PSO1	PSO2	PSO3	PSO4
Semester III											
Course 301.1	Principles of Microeconomics-II	3	-	-	2	1	3	1	3	1	3
Course 301.2	Economics of Finance	1	3	2	1	2	3	1	1	3	1
Course 301.3	Elementary Statistics for Economics	1	3	2	1	2	3	-	-	3	1
Course 301.4	General Hindi	-	-	1	-	-	2	-	-	-	-
Course 301.5	Principle of Microeconomics-II (Practical)	1	1	2	3	2	3	1	1	2	2
Course 301.6	Hands-On Data Analysis with Software Applications in Economics	1	3	2	1	2	3	-	-	3	1
Course 301.7	AI & Machine Learning for Economic Analysis	-	2	2	-	1	1	-	-	1	-
Course 301.8	Research Based Learning-01	1	1	2	3	2	3	1	1	2	2
Semester IV											
Course 401.1	Principles of Macroeconomics-II	3	-	-	2	1	3	1	3	1	3
Course 401.2	Mathematical Economics	1	3	2	1	2	3	1	1	3	1
Course 401.3	Economic Thought: A Historical Perspective	1	2	2	2	3	3	1	2	2	2
Course 401.4	Economics of Health & Education	3	-	2	3	-	1	1	-	2	2
Course 401.5	Mathematical Economics (Practical)	1	3	2	1	2	3	1	1	3	1
Course 401.6	Community Connect	1	1	2	3	2	3	1	1	2	1
Course 401.7	Research Based Learning-02	3	-	2	3	-	1	1	1	1	2

3rd Year [Semester V & VI]

Courses	Course Name	PO1	PO2	PO3	PO4	PO5	PO6	PSO1	PSO2	PSO3	PSO4
Semester V											
Course 501.1	International Trade Theory and Policy	1	1	2	3	2	3	1	1	2	2
Course 501.2	Growth & Development	1	2	2	2	3	3	1	2	2	3
Course 501.3	Economics of Public Finance	3	-	2	3	-	1	1	-	2	2
Course 501.4	Econometrics: Theory and Application	1	1	2	3	2	3	1	1	2	2
Course 501.5	Database Management & Computer Application in Economics	1	2	2	2	3	3	1	2	2	3
Course 501.6	Economics of Public Finance (Practical)	1	1	2	3	2	3	1	1	2	2
Course 501.7	Econometrics: Theory and Application (Practical)	1	2	2	2	3	3	1	2	2	3
Course 501.8	Database Management & Computer Application in Economics (Practical)	1	2	2	2	3	3	1	2	2	2
Course 501.9	Research Based Learning-03	1	2	2	2	3	3	1	2	2	2

Semester VI											
Course 601.1	Economics of Development	1	2	2	2	3	3	2	3	1	1
Course 601.2	Global Trade & Financial Institutions	1	2	2	2	3	3	2	3	1	3
Course 601.3	Economics of Money & Banking	1	1	2	3	2	3	1	1	2	3
Course 601.4	Digital Economics	1	1	2	3	2	3	1	1	2	2
Course 601.5	Introduction to French	1	-	2	1	-	1	1	1	1	2
Course 601.6	Industry Connect	-	-	2	1	-	1	1	2	1	2
Course 601.7	Research Based Learning-04	1	1	2	3	2	3	1	3	1	2

4th Year [Semester VII (i) & VIII (i)] B.A. (Hons)

Course	Course Name	PO1	PO2	PO3	PO4	PO5	PO6	PSO1	PSO2	PSO3	PSO4

Semester VII (i)											
Course 701.1	Micro Economic Theory	3	-	2	3	-	1	1	1	1	2
Course 701.2	Macro Economic Theory	1	2	2	2	3	3	2	3	1	3
Course 701.3	Economics of International Trade	1	2	2	2	3	3	2	3	1	1
Course 701.4	Public Economics: Theory & Policy	1	1	1	2	3	3	2	3	-	-
Course 701.5	Public Policy & Welfare*	1	1	2	2	3	3	2	3	-	-
Course 701.6	Micro Economic Analysis	1	2	2	2	3	3	2	3	1	1
Course 701.7	Macro Economic Analysis	1	1	1	2	3	3	2	3	-	-
Course 701.8	International Trade: Policy & Practices	1	1	2	2	3	3	2	3	-	-
Course 701.9	Public Economics: Policy & Practices	1	1	2	2	3	3	2	3	-	-
Semester VIII (i)											
Course 801.1	Environmental & Resource Economics	2	-	2	3	1	3	2	2	-	2
Course 801.2	Economics of Social Issues	2	2	2	3	1	3	2	2	2	2
Course 801.3	Agriculture Economics	1	1	2	3	2	3	1	3	1	2
Course 801.4	Urban Economics	1	2	2	3	2	3	1	2	3	2
Course 801.5	Research Project in Economics	1	2	2	-	2	-	1	2	-	2

4th Year [Semester VII (ii) & VIII (ii)] B.A. (Hons with Research)

Course	Course Name	PO1	PO2	PO3	PO4	PO5	PO6	PSO1	PSO2	PSO3	PSO4
Semester VII (ii)											
Course 701.1	Micro Economic Theory	3	-	2	3	-	1	1	1	1	2
Course 701.2	Macro Economic Theory	1	2	2	2	3	3	2	3	1	3
Course 701.3	Public Economics: Theory & Policy	1	2	2	2	3	3	2	3	1	1
Course 701.4	Public Policy & Welfare	1	1	1	2	3	3	2	3	-	-
Course 701.5	Micro Economic Analysis	1	2	2	2	3	3	2	3	1	3
Course 701.6	Macro Economic Analysis	1	2	2	2	3	3	2	3	1	1
Course 701.7	International Trade: Policy & Practices	1	1	1	2	3	3	2	3	-	-
Course 701.8	Public Economics: Policy & Practices	1	1	2	2	3	3	2	3	-	-
Course 701.9	Research Project in Economics II	1	1	2	2	-	-	2	-	-	-
Semester VIII (ii)											
Course 801.1	Economics of Environment & Resources	2	-	2	3	1	3	2	2	-	2
Course 801.2	Economics of Social Issues	2	2	2	3	1	3	2	2	2	2
Course 801.3	Economics of Environment & Resources: Practices	1	1	2	3	2	3	1	3	1	2
Course 801.4	Research Project in Economics III	1	1	2	2	2	-	1	2	1	2

Semester wise Programme Structure
(Teaching Scheme)

Structure of FY UG Programme

The Semester wise and Broad Course Category-wise distribution of credits of the Undergraduate Programme:

15.02.2025

Semester	Discipline Core Major (60/80 Credits)	Minor (24/32 Credits)	Inter/Multi - disciplinary courses (09 Credits)	Ability Enhancement courses (AEC) (08 Credits)	Skill Enhancement Courses (SEC) (09 Credits)	Common Value Added Courses (06-08 Credits)	Summer Internship (02-04 Credits)	Research Project (12 Credits)	Total Credits (120/160)	
I	Th-1(3) + Pract-1(1) Principle of Microeconomics-I (3), Principles of Microeconomics-I (Practical) (1) & Th-1(4) Economy of India(4) [8]	1(3) Introductory Microeconomics (3) [3]	1(2) Database and Data Visualization (2) [2]	ARP(2) Communicative English-1 (2) [2]	1(3) Fundamentals of Artificial Intelligence in Economics (AI) (3) [3]	VAC1 (2) Environment (2) [2]			20	First Minor Core is fixed course for each school. VAC Courses include -Environment -Indian Knowledge System -Mulya Pravah VAC/SEC/Multidis/AEC can be taken from NPTEL
II	Th-1(3) + Pract-1(1) Statistical Methods for Economics (3), Statistical Methods for Economics (Practical) (1) & Th-1(4) Principles of Macroeconomics-I (4) [8]	1 (3) Introductory Macroeconomics (3) [3]		ARP(2) Communicative English-2 (2) [2]	1(3)Application of AI in Economics (3) [3]	VAC2 (2) Indian Knowledge System VAC3 (2) Mulya Pravah [4]			20	
	Students exit the programme after securing 40 credits will be awarded UG certificate in the relevant Discipline / Subject provided they secure 4 credits in work based vocational courses offered during summer term or internship / Apprenticeship in addition to 6 credit from skill - based courses earned during first and second								40	
III	Th-1(4) + Pract-1(1) Principles of Microeconomics-II (4), Principle of Microeconomics-II (Practical) (1) & Th-1(5) Economics of Finance (5) [10]	1(3) Elementary Statistics for Economics (3) [3]	1(2) Hands-On Data Analysis with Software Applications in Economics (2) [2]	Th-1(2) Indian Language [2]	1(3) AI & Machine Learning for Economic Analysis (3) [3]			RBL1 -1(0) Research Based Learning-01 [0]	20	**Consent to be taken from Students for Apprenticeship by floating name of Industries Mandatory visit to Abhivyakti Wellness Clinic as Audit Course to be taken in any semester (Except 1st & final sem.)
IV	Th-2(4) + Pract-1(2) Principles of Macroeconomics-II (4), Mathematical Economics (4), Mathematical Economics (Practical) (1) & Th-1(4) Economic Thought: A Historical Perspective (4) [14]	1(3) Economics of Health & Education (3) [3]		1(2) Community Connect [2]				RBL2 -1(1) Research Based Learning-02 [1]	20	
	Students exit the programme after securing 80 credits will be awarded UG Diploma in the relevant Discipline / Subject provided they secure additional 4 credits in skill based vocational courses offered during first year or second year summer term or Internship								80	
V	Th-2(4) International Trade Theory and Policy (4), Growth & Development (4) & Th-3(3)+Pract-3(1) Economics of Public Finance (3), Economics of Public Finance (Practical) (1), Econometrics: Theory and Application (3), Econometrics: Theory and Application (Practical) (1), Database Management & Computer Application in Economics (3), Database Management & Computer Application in Economics (Practical) (1) [20]							RBL3 -1(0) (Audit) Research Based Learning-03 [0]	20	3- Year UG Degree inclusive of optional Apprenticeship
VI		3(4) Economics of Development (4), Global Trade & Financial Institutions (4), Economics of Money & Banking (4) [12]	1(3) Digital Economics (3) [3]	ARP (2) Foeign Language(2) [2]			Industry Connect-1(2)/ Summer Internship-1(2) [2]	RBL4 -1(1) Research Based Learning-04 [1]	20	
OR VI	**APPRENTICESHIP [20]								20	
	Students who want to undertake 3-year UG programme will be awarded UG Degree in the relevant Discipline / Subject upon securing 120 credits								120	
VII (i)	Th-4(4) + Pract-2(2) Micro Economic Theory (4), Micro Economic Analysis (1), Macro Economic Theory (4), Macro Economic Analysis (1), Economics of International Trade (4), International Trade: Policy & Practices (1), Public Economics: Theory & Policy (4), Public Economics: Policy & Practices (1) [20]	1(4)* Public Policy & Welfare (4) [4]							20	***ONLY for students going for Apprenticeship & requires Minor with Major Degree** 4- Year UG Degree (Honours) inclusive of optional Apprenticeship
VIII (i)		2(4)Environmental & Resource Economics (4); Economics of Social Issues (4) [8]	Th-2(4) Agriculture Economics (4), Urban Economics (4) [8]					Project (4) [4]	20	
OR VIII	**APPRENTICESHIP [20]								20	
	OR								160	
VII (ii)	Th-3(4)+Pract-4(1) or Th-4(4) Micro Economic Theory (4), Micro Economic Analysis (1), Macro Economic Theory (4), Macro Economic Analysis (1), International Trade: Policy & Practices (1), Public Economics: Theory & Policy (4), Public Economics: Policy & Practices (1) [16]	1(4) Public Policy & Welfare (4) [4]						1(3) Research Project-01 **03 Credits** evaluation will be done in VII Semester & [3]	23	4- Year UG Degree (Honours with Research)
VIII (ii)	Th-1(3) + Pract-1(1) Economics of Environment & Resources (3), Economics of Environment & Resources: Practices (1) [4]	1(4) Economics of Social Issues (4) [4]						(9) Research Project-02 09 Credits evaluation will be done in VIII Semester [9]	17	
	Students wil be awarded UG Degree (Honours) with Research in the relevant Discipline / Subject provided they secure min. 160 credits								160	
	No. of Courses	No. of Credits	Total Credits in Block							

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TERM: I

Sr. No	SU Paper ID	Course Code	Course Name	L	T	P	Credits	Category
Theory								
1		EOT1101	Principles of Microeconomics-I	3	0	0	3	CC
2		EOT1102	Economy of India	4	0	0	4	CC
3		EOT1103	Introductory Microeconomics	3	0	0	3	Minor
4		IKT1103	IKS	2	0	0	2	VAC
Practical/Viva-Voce/Internship/ Project								
5		EOP1101	Principles of Microeconomics-I (Practical)	0	0	2	1	Core Practical
6		EOP1104	Database & Data Visualization	0	1	2	2	Multidisciplinary
7		AI8201	Fundamentals of Artificial Intelligence in Economics	0	1	4	3	SEC
8		ARP101	Communicative English-1	0	1	2	2	AEC
Semester 1 Credits: 20 Min : Max:								

*This Multidisciplinary course is open to all (Own/Other Faculty students).
**This Minor Elective course is open only to the students of other department/Faculty.

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TERM: II

Sr. No	SU Paper ID	Course Code	Course Name	L	T	P	Credits	Category
Theory								
1		EOT1105	Principles of Macroeconomics-I	4	0	0	4	CC
2		EOT1106	Statistical Methods for Economics	3	0	0	3	CC
3		EOT1107	Introductory Macroeconomics	3	0	0	3	Minor Elective
4		EVT1129	Environmental Education	2	0	0	2	VAC
5		IKT1104	Mulyapravah	2	0	0	2	VAC
Practical/Viva-Voce/Internship/ Project								
6		EOP1106	Statistical Methods for Economics (Practical)	0	0	2	1	Core practical
7		ARP102	Communicative English-2	0	0	4	2	AEC
8		AI8202	Application of AI in Economics	0	0	6	3	SEC
Semester 2 Credits:20 Min : Max:								

**This Minor Elective course is open only to the students of other department/Faculty.

#As per UGC-FYUP multilevel exit-entry, student is eligible for 'Certificate in History' after successfully completing and earning the 40 credits at the end of Second semester

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TERM: III

Sr. No	SU Paper ID	Course Code	Course Name	L	T	P	Credits	Category
Theory								
1		EOT2201	Principles of Microeconomics-II	4	0	0	4	CC
2		EOT2202	Economics of Finance	5	0	0	5	CC
3		EOT2203	Elementary Statistics for Economics	3	0	0	3	Minor
4		IKT2202	General Hindi	2	0	0	2	AEC
Practical/Viva-Voce/Internship/ Project								
5		EOP2201	Principle of Microeconomics-II (Practical)	0	0	2	1	Core Practical
6		EOP2204	Hands-On Data Analysis with Software Applications in Economics	1	0	2	2	Multidisciplinary
7		AI8203	AI & Machine Learning for Economic Analysis	0	0	6	3	SEC
8		EOR2201	Research Based Learning-01	0	0	1	0	RBL
Semester 3 Credits: 20 Min : Max:								

**This Minor Elective course is open only to the students of other department/Faculty.

^Qualifying course

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TERM: IV

Sr. No	SU Paper ID	Course Code	Course Name	L	T	P	Credits	Category
Theory								
1		EOT2205	Principles of Macroeconomics-II	4	0	0	4	CC
2		EOT2206	Mathematical Economics	4	0	0	4	CC
3		EOT2207	Economic Thought: A Historical Perspective	4	0	0	4	CC
4		EOT2208	Economics of Health & Education	3	0	0	3	Minor Elective
Practical/Viva-Voce/Internship/ Project								
5		EOP2206	Mathematical Economics (Practical)	0	0	4	2	Core Practical
6		CCU701	Community Connect	0	0	4	2	AEC
7		EOR2202	Research Based Learning-02	0	0	2	1	RBL
Semester 4 Credits: 20 Min : Max:								

#Any one course to be chosen by students. Offering of the Course is a subject to the number of students enrolled in a course and availability of faculty.

*This Multidisciplinary course is open to all (Own/Other Faculty students).

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TERM: V

Sr. No	SU Paper ID	Course Code	Course Name	L	T	P	Credits	Category
Theory								
1		EOT3301	International Trade Theory & Policy	4	0	0	4	CC
2		EOT3302	Growth & Development	4	0	0	4	CC
3		EOT3303	Economics of Public Finance	3	0	0	3	CC
4		EOT3304	Econometrics: Theory and Application	3	0	0	3	CC
5		EOT3305	Database Management & Computer Application in Economics	3	0	0	3	CC
Practical/Viva-Voce/Internship/ Project								
6		EOP3303	Economics of Public Finance (Practical)	0	0	2	1	Core Practical
7		EOP3304	Econometrics: Theory and Application (Practical)	0	0	2	1	Core Practical
8		EOP3305	Database Management & Computer Application in Economics (Practical)	0	0	2	1	Core Practical
9		EOR3301	Research Based Learning-03	0	0	2	0	RBL
Semester 5 Credits: 20 Min : Max:								

#Any one course to be chosen by students. Offering of the Course is a subject to the number of students enrolled in a course and availability of faculty.

*This Multidisciplinary course is open to all (Own/Other Faculty students).

Sharda School of Humanities and Social Sciences
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TERM: VI

Sr. No	SU Paper ID	Course Code	Course Name	L	T	P	Credits	Category
Theory								
1		EOT3306	Economics of Development	4	0	0	4	Minor
2		EOT3307	Global Trade & Financial Institutions	4	0	0	4	Minor
3		EOT3308	Economics of Money & Banking	4	0	0	4	Minor
4		EOT3309	Digital Economics	3	0	0	3	Multidisciplinary
5		ENT3311	Introduction to French	2	0	0	2	AEC
Practical/Viva-Voce/Internship/ Project								
6			Industry Connect	0	0	4	2	Industry Connect
7		EOR3302	Research Based Learning-04	0	0	2	1	RBL
Semester 6 Credits: 20 Min : Max:								

***Any one course to be chosen by students. Offering of the Course is a subject to the number of students enrolled in a course and availability of faculty.

* This Multidisciplinary course is open to all (Own/Other Faculty students).

** This Minor Elective course is open only to the students of other department/Faculty.

#As per UGC-FYUP multilevel exit-entry, student is eligible for 'Bachelor in History' after successfully completing and earning the 120 credits at the end of Sixth semester.

Sharda School of Humanities and Social Sciences
Program Name: B.A. (Hons.) Economics
Batch: 2025-29

TERM: VII (i) (HONOURS)

Sr. No	SU Paper ID	Course Code	Course Name	L	T	P	Credits	Category
Theory								
1		EOT4401	Micro Economic Theory	4	0	0	4	CC
2		EOT4402	Macro Economic Theory	4	0	0	4	CC
3		EOT4403	Economics of International Trade	4	0	0	4	CC
4		EOT4404	Public Economics: Theory & Policy	4	0	0	4	CC
5		EOT4405	Public Policy & Welfare*	4	0	0	4	Minor
Practical/Viva-Voce/Internship/ Project								
6		EOP4401	Micro Economic Analysis	0	0	2	1	Core Practical
7		EOP4402	Macro Economic Analysis	0	0	2	1	Core Practical
8		EOP4403	International Trade: Policy & Practices	0	0	2	1	Core Practical
9		EOP4404	Public Economics: Policy & Practices	0	0	2	1	Core Practical
Semester 7 Credits: 20 Min : Max:								

**This Minor Elective course is open only to the students of other department/Faculty.

Sharda School of Humanities and Social Sciences
Program Name: B.A. (Hons. With Research) Economics
Batch: 2025-29

TERM: VII (ii) (HONOURS WITH RESEARCH)

Sr. No	SU Paper ID	Course Code	Course Name	L	T	P	Credits	Category
Theory								
1		EOT4401	Micro Economic Theory	4	0	0	4	CC
2		EOT4402	Macro Economic Theory	4	0	0	4	CC
3		EOT4404	Public Economics: Theory & Policy	4	0	0	4	CC
4		EOT4405	Public Policy & Welfare	4	0	0	4	Minor
Practical/Viva-Voce/Internship/ Project								
5		EOP4401	Micro Economic Analysis	0	0	2	1	Core Practical
6		EOP4402	Macro Economic Analysis	0	0	2	1	Core Practical
7		EOP4403	International Trade: Policy & Practices	0	0	2	1	Core Practical
8		EOP4404	Public Economics: Policy & Practices	0	0	2	1	Core Practical
9		EOR4402	Research Project in Economics II	0	0	6	3	Research Project
Semester 7 Credits: 23 Min : Max:								

**This Minor Elective course is open only to the students of other department/Faculty.

Sharda School of Humanities and Social Sciences
Program Name: B.A. (Hons.) Economics
Batch: 2025-29

TERM: VIII (i) (HONOURS)

Sr. No	SU Paper ID	Course Code	Course Name	L	T	P	Credits	Category
Theory								
1		EOT4406	Environmental & Resource Economics	4	0	0	4	Minor
2		EOT4407	Economics of Social Issues	4	0	0	4	Minor
3		EOT4408	Agriculture Economics	4	0	0	4	Multidisciplinary
4		EOT4409	Urban Economics	4	0	0	4	Multidisciplinary
Practical/Viva-Voce/Internship/ Project								
5		EOR4401	Research Project in Economics I	0	0	8	4	Research Project
Semester 8 Credits: 20 Min : Max:								

**This Minor Elective course is open only to the students of other department/Faculty.

Sharda School of Humanities and Social Sciences
Program Name: B.A. (Hons.) Economics
Batch: 2025-29

TERM: VIII (ii) (HONOURS WITH RESEARCH)

Sr. No	SU Paper ID	Course Code	Course Name	L	T	P	Credits	Category
Theory								
1		EOT4410	Economics of Environment & Resources	3	0	0	3	CC
2		EOT4407	Economics of Social Issues	4	0	0	4	Minor
Practical/Viva-Voce/Internship/ Project								
3		EOP4410	Economics of Environment & Resources: Practices	0	0	2	1	Core Practical
4		EOR4403	Research Project in Economics III	0	0	18	9	Research Project
Semester 8 Credits: 17 Min : Max:								

**This Minor Elective course is open only to the students of other department/Faculty.

COURSE MODULES

Semester I

SEMESTER- I

Sr. No	Course Code	Course Name	L	T	P	Credits	Category
1	EOT1101	Principles of Microeconomics-I	3	0	0	3	CC
2	EOT1102	Economy of India	4	0	0	4	CC
3	EOT1103	Introductory Microeconomics	3	0	0	3	Minor
4	IKT1103	IKS	2	0	0	2	VAC
5	EOP1101	Principles of Microeconomics-I (Practical)	0	0	2	1	Core Practical
6	EOP1104	Database & Data Visualization	0	1	2	2	Multidisciplinary
7	AI8201	Fundamentals of Artificial Intelligence in Economics	0	0	6	3	SEC
8	ARP101	Communicative English-1	0	1	2	2	AEC
Semester 1 Credits: 20 Min : Max:							

School: SSHSS		**Batch: 2025-29**	
Program: B.A./ B.A. (Hons)/ B.A. (Hons with Research)		**Current Academic Year: 2025-26**	
Branch: Economics		**Semester: I**	
1	Course Code	EOT1101	
2	Course Title	Principles of Microeconomics-I	
3	Credits	3	
4	Contact Hours (L-T-P)	3-0-0	
	Course Status	Major-CC	
5	Course Description	The Course is designed for the student's pursuing graduation with Economics in regular mode. The programme aims to inculcate economic thinking among the students in economic decision making by comprehending economic theory. This course introduces microeconomic theory, covering demand and supply, consumer behavior, production, costs, and market structures. It equips students with analytical skills to interpret market outcomes and evaluate economic models.	
6	Course Objective	The objective of this course is to equip students with a strong foundation in microeconomic theory. After completion of the course, the following objectives will be attained: 1. Recall core microeconomic concepts such as demand, supply, elasticity, consumer behavior, production, costs, and market structures. 2. Analyze market dynamics and interpret firm behavior using microeconomic principles. 3. Evaluate the efficiency and welfare implications of different market conditions and policies. 4. Apply microeconomic theories to real-world scenarios for effective problem-solving and decision-making.	
7	Course Outcomes	On completion of this course, the learners will be able to: CO1: **Explain** fundamental microeconomic concepts, including scarcity, opportunity cost, and market equilibrium through demand and supply analysis. CO2: **Analyze** price, income, and cross elasticities of demand and supply, and their impact on market behavior. CO3: **Apply** consumer behavior theories using utility analysis, indifference curves, and the income and substitution effects. CO4: **Examine** production functions, cost structures, and revenue concepts to understand firms' decision-making processes. CO5: **Evaluate** market structures, including perfect and monopolistic competition, monopoly, and their implications on efficiency and welfare. CO6: **Interpret** oligopoly pricing strategies, price discrimination, and the social costs associated with it.	
8	Outline syllabus		**CO Mapping**
	Unit 1	**Introduction:**	

	A	Microeconomics: Definitions, Scope and method of economics; the economic problem: scarcity and choice; the concept of opportunity cost; Central Problems of an Economy; positive versus normative analysis, production possibility frontier.	**CO1**
	B	Demand: Individual demand and market demand, Law of demand, determinants of demand, shifts in demand versus movements along a demand curve, law of supply, determinants of supply, shifts of supply versus movements along a supply curve, market supply, Simultaneous change in demand and supply,	**CO1**
	C	Market equilibrium. Applications of demand and supply: price rationing, price floors, consumer surplus, producer surplus.	**CO1**
	Unit 2	**Elasticity of Demand and Elasticity of Supply**	
	A	Elasticity of Demand: Price, Income and Cross elasticities of demand, measuring elasticity.	**CO2**
	B	degree of price elasticity of demand, determinants of price elasticity of demand, other elasticities	**CO2**
	C	Elasticity of Supply: Concept, measurement and determinants	**CO2**
	Unit 3	**Theory of Consumer Behavior**	**CO2**
	A	Theory of Consumer Behavior: Concept of utility, Cardinal Utility and Consumer's equilibrium, Law of diminishing marginal utility, Equi-Marginal Utility,	**CO3**
	B	Ordinal Utility Analysis: Indifference Curve and Budget constraint, Establishment of Equilibrium	**CO3**
	C	Price Consumption Curve, Income Consumption Curve, Price Effect: Income Effect and Substitution effects (Hicks and Slutsky)	**CO3**
	Unit 4	**Production, Cost and Revenue**	
	A	Production Function: Short run and Long run, Returns to Factor and Returns to Scale, choice of technology, isoquant and isocost lines, Least cost combination of factors.	**CO4**
	B	Cost Function: Concepts of Cost, costs in the short run, costs in the long run, revenue and profit maximizations, minimizing losses, short run industry supply curve	**CO4**
	C	Concepts of Revenue: Total, Average and Marginal Revenue and their relationships. Break even analysis and its uses.	**CO5**
	Unit 5	**Market Structures**	
	A	Perfect Competition: Assumptions: theory of a firm under perfect competition, demand and revenue; equilibrium of the firm in the short run and long run	**CO5**
	B	Monopoly, Assumption. Price & Output Determination	**CO6**
	C	Monopolistic competition & Monopoly: Assumptions, SR& LR price and output determinations under monopolistic competition & monopoly.	**CO6**
	Mode of examination	Theory	

11	Weightage Distribution	CA	MTE	ETE
		25%	25%	50%

	Readings/ Text Books	1. Ahuja, H.L. Advanced Economic Theory: Microeconomic Analysis. 20th Edition, S. Chand Publications. 2. Ahuja, H.L. Principles of Microeconomics: A New-Look Textbook of Microeconomic Theory. Latest Edition, S. Chand Publications. 3. Dwivedi, D.N. Microeconomics: Theory and Applications. Latest

		Edition, Pearson Education. 4. Lipsey, Richard G., & Chrystal, Alec K. Principles of Economics. 9th Edition, Oxford University Press. 5. Pindyck, Robert S., & Rubinfeld, Daniel L. Microeconomics. 9th Edition, Pearson Education. 6. Salvatore, Dominic. Microeconomics: Theory and Practice. Latest Edition, Oxford University Press. 7. Samuelson, Paul A., & Nordhaus, William D. Economics. 21st Edition, Tata McGraw Hill. 8. Koutsoyiannis, A. Modern Microeconomics. 2nd Edition, Macmillan.avinuty.ac.in
	Other References	1. Baumol, W.J. (1982), Economic Theory and Operations Analysis, Prentice Hall of India, New Delhi. 2. Hirshleifer, J. and A. Glazer (1997), Price Theory and Applications, Prentice Hall of India, New Delhi. 3. Green, H.A.G. (1971), Consumer Theory, Penguin, Harmondsworth. 4. Henderson, J.M. and R.E. Quandt (1980), Microeconomic Theory: A Mathematical Approach, McGraw Hill, New Delhi. 5. Da Costa, G.C. (1980), Production, Prices and Distribution, Tata McGraw Hill, New Delhi. 6. Archibald, G.C. (Ed.) (1971), Theory of the Firm, Penguin, Harmondsworth. 7. Bain, J. (1958), Barriers to New Competition, Harvard University Press, Harvard. 8. Bronfenbrenner, M. (1979), Income Distribution Theory, Macmillan, London.

Course Articulation Matrix

POs / Cos	PO1	PO2	PO3	PO4	PO5	PO6	PSO1	PSO2	PSO3	PSO4
CO1	3	-	1	2	2	-	3	3	-	-
CO2	3	-	-	3	2	-	3	3	-	2
CO3	3	-	-	3	-	2	3	3	-	-
CO4	3	-	-	3	-	2	3	3	-	3
CO5	3	-	2	3	3	2	3	3	-	3
CO6	3	-	2	3	3	3	3	3	-	3

1-Low 2-Medium 3-High

School: SSHSS		**Batch: 2025-29**	
Program: B.A./ B.A. (Hons)/ B.A. (Hons with Research)		**Current Academic Year: 2025-26**	
Branch: Economics		**Semester: I**	
1	Course Code	EOT1102	
2	Course Title	Economy of India	
3	Credits	4	
4	Contact Hours (L-T-P)	4-0-0	
	Course Status	Major-CC	
5	Course Description	Using appropriate analytical frameworks, this course reviews major trends in economic indicators and policy debates in India in the post-Independence period, particularly emphasizing paradigm shifts and turning points.	
6	Course Objective	The objective of this course is to: 1. Explain the structure, growth, and development of the Indian economy. 2. Analyse performance of major sectors, including agriculture, industry, population, and infrastructure. 3. Critically evaluate government policies, identify challenges, and explore emerging trends. 4. Elaborate concepts like industrial corridors and smart cities, fostering insights into India's evolving economic landscape.	
7	Course Outcomes	On completion of this course the students will be able to: CO1: **Demonstrate** the historical evolution, characteristics, and key development issues of the Indian economy. CO2: **Analyse** population trends, demographic patterns, and human development indicators in India. CO3: **Evaluate** the role, challenges, and reforms in the Indian agricultural sector, including the impact of the Green Revolution. CO4: **Examine** the evolution, structure, and challenges of Indian industry, including MSMEs, public sector undertakings, and the changing role of the tertiary sector. CO5: **Assess** the status, challenges, and importance of infrastructure in India, including energy, power, transport, and communication. CO6: **Explain** the concept and significance of industrial corridors and smart cities in India's economic development.	
8	Outline syllabus		**CO Mapping**
	Unit 1	**Indian Economy: Its Basic Characteristics, Development and Growth**	
	A	Indian Economy in the pre-independence period	**CO1**
	B	Characteristics of India as a developing economy	**CO1**

	C	Emerging Issues of development in the Indian economy, National Income: Trends, size and Composition	**CO1**
	Unit 2	**Population and Human Resources**	
	A	Size, and growth of Population; Characteristics of the population: sex ratio, age composition, density, rural-urban ratio and occupational distribution	**CO2**
	B	Indicators of Human Development: Life Expectancy, Infant Mortality and Literacy	**CO2**
	C	Demography of Indian Population	**CO2**
	Unit 3	**Indian Agriculture**	
	A	Role of agriculture in Indian economy; Nature of India's agriculture; The new agricultural strategy and the Green Revolution; Impact of Green Revolution	**CO3**
	B	Tenets, Objectives and strategies of Land Reforms; Appraisal of land reforms in India	**CO3**
	C	Need for agricultural finance; Sources; Role of Rural co-operatives; commercial banks and Regional rural banks; Role of NABARD. Role of the Government in promoting agricultural marketing	**CO3**
	Unit 4	**Indian Industry**	
	A	Industry in pre-plan period, second five-year plan and Indian industry, industrial policy- 1956 and 1991,	**CO4**
	B	Importance and problems of MSME sector, public sector undertaking- importance and problems	**CO4**
	C	Changing role of the Tertiary Sector in the Indian Economy	**CO4**
	Unit 5	**Infrastructure of the Indian Economy**	
	A	Infrastructural Facilities in India: Energy, Power, Transport and Communication	**CO5**
	B	Urban Infrastructure in India	**CO5**
	C	Industrial Corridor and Smart Cities	**CO6**
	Mode of examination	Theory	

11	Weightage Distribution	CA	MTE	ETE
		25%	25%	50%

	Readings/ Text Books	1. Dhar, P. K. (2017). Indian Economy (Latest Edition). Kalyani Publishers, New Delhi. 2. Agarwal, A. N. (2015). Indian Economy: Problems of Development and Planning (Latest Edition). New Age International. 3. Datt, R., & Mahajan, A. (2015). Indian Economy (71st Edition). S. Chand & Co. Ltd. 4. Dhingra, I. C. (2014). Indian Economy: Environment and Policy. Sultan Chand & Sons.

	Other References	1. Kapila, U. (2015). Indian Economy: Performance and Policies (15th Edition). Academic Foundation. 2. Misra, S. K., & Puri, V. K. (2016). Indian Economy: Its Development Experience (31st Edition). Himalaya Publishing House.

Course Articulation Matrix

POs Cos	PO1	PO2	PO3	PO4	PO5	PO6	PSO1	PSO2	PSO3	PSO4
CO1	3	-	2	3	2	-	3	3	-	2
CO2	3	-	2	3	2	-	3	3	-	2
CO3	3	-	2	3	-	2	3	3	-	3
CO4	3	-	2	3	-	2	3	3	-	3
CO5	3	-	2	3	3	2	3	3	-	3
CO6	3	-	2	3	3	3	3	3	-	3

1-Low 2-Medium 3-High

School: SSHSS		**Batch: 2025-29**	
Program: B.A./ B.A. (Hons)/ B.A. (Hons with Research)		**Current Academic Year: 2025-26**	
Branch: Economics		**Semester: I**	
1	Course Code	EOT1103	
2	Course Title	Introductory Microeconomics	
3	Credits	3	
4	Contact Hours (L-T-P)	3-0-0	
	Course Status	Minor	
5	Course Description	This course focused on topics related to microeconomics. The course will be collaborating both theory and applications and will thereby help the students to construct and manage their academic and professional life.	
6	Course Objective	The purpose of this course is to give students a rigorous introduction to modern microeconomic theory. The course has the following objectives: 1. To apply the fundamental concepts of scarcity, choice, opportunity cost, and market forces to analyze real-world economic problems. 2. To demonstrate an understanding of consumer behavior through utility, indifference curve theory, and revealed preference. 3. To evaluate various market structures, including perfect competition, monopolistic competition, and monopoly, in terms of pricing, output, and efficiency. 4. To analyze the impact of taxes, input price changes, and market failures on equilibrium and welfare outcomes.	
7	Course Outcomes	On completion of this course the learners will be able to CO1: **Apply** the fundamental concepts of scarcity, choice, opportunity cost, and market forces to analyze real-world economic problems. CO2: **Demonstrate** an understanding of consumer behavior through utility, indifference curve theory, and revealed preference. CO3: **Analyse** production processes, cost structures, and firm behavior to determine profit-maximizing conditions. CO4: **Evaluate** various market structures, including perfect competition, monopolistic competition, and monopoly, in terms of pricing, output, and efficiency. CO5: **Examine** the impact of taxes, input price changes, and market failures on equilibrium and welfare outcomes. CO6: **Understand** income distribution, factor pricing, and their implications in competitive and imperfect markets.	
8	Outline syllabus		**CO Mapping**
	Unit 1	**Introduction:**	
	A	Problem of scarcity, choice and opportunity cost; production possibility frontier; circular flow of income 7	**CO1**

		expenditure in economic systems.	
	B	Concept of demand and supply, determinants of demand and supply, movement along the demand & supply curve, shift of the demand curve and supply curve. rice rationing, price floors, consumer surplus, producer surplus.	**CO1**
	C	Market equilibrium and price determination, change in equilibrium; Elasticity: price elasticity of demand, calculating elasticity, determinants of price elasticity, other elasticities.	**CO1**
	Unit 2	**Consumer Theory:**	
	A	Budget constraint, concept of utility, diminishing marginal utility	**CO2**
	B	Diamond-water paradox	**CO2**
	C	Indifference Curve Theory, Separation of Income & Substitution Effect from Price Effect.	**CO2**
	Unit 3	**Production and Costs:**	
	A	Production: behaviour of profit maximizing firms, production process, production functions, law of variable proportions, isoquant and iso-cost lines, cost minimizing equilibrium condition.	**CO3**
	B	Costs: costs in the short run, costs in the long run, revenue and profit maximizations, minimizing losses	**CO3**
	C	Short run industry supply curve, economies and diseconomies of scale, long run adjustments	**CO3**
	Unit 4	**Market Structures**	
	A	Perfect Competition: a. Assumptions: theory of a firm under perfect competition, demand and revenue; equilibrium of the firm in the short run and long run; long run industry supply curve: increasing, decreasing and constant cost industries. Welfare: allocative efficiency under perfect competition.	**CO4**
	B	Imperfect Competition: Monopolistic competition: Assumptions, SR & LR price and output determinations under monopolistic competition, economic efficiency and resource allocation; oligopoly: assumptions, oligopoly models, game theory, contestable markets, role of government	**CO4**
	C	Theory of a Monopoly Firm: Concept of imperfect competition; short run and long run price and output decisions of a monopoly firm; concept of a supply curve under monopoly	**CO4**
	Unit 5	**Consumer and Producer Theory in Action and Income Distribution and Factor pricing**	
	A	Response of equilibrium price and quantity to change in input prices, change in technology, effects of taxation	**CO5**
	B	Markets and Market Failure: sources of market failure, public policy towards monopoly and competition	**CO5**
	C	Input markets: demand for inputs; labour markets, land	**CO6**

		markets, profit maximization condition in input markets		
	Mode of examination	Theory		
11	Weightage Distribution	CA	MTE	ETE
		25%	25%	50%
	Readings/ Text Books	1. Ahuja, H.L. (2013). Advanced Economic Theory. S. Chand & Company, New Delhi. 2. Shastri, Rahul A. (1999). Microeconomics. Orient Blackswan. 3. Ahuja, H.L. (2012). Ucchatar Arthik Siddhant. S. Chand & Company, New Delhi. 4. Dwivedi, D.N. (2011). Microeconomics: Theory & Applications. Pearson. 5. Lal, S.N. (2013). Arthshastra Ke Siddhant. Shiva Publishing House, Allahabad. 6. Seth, M.L. (2012). Arthshastra Ke Siddhant. Laxmi Narayan Publications, Agra. 7. Lipsey, Richard & Chrystal, Alec. (2011). Economics. Oxford University Press, New Delhi. 8. Pindyck, Robert S., Rubinfield, Daniel L., & Mehta, Prem L. (2009). Microeconomics. Pearson. 9. Salvatore, Dominic. (2010). Principles of Microeconomics. Oxford University Press, New Delhi.		
	Other References	1. Samuelson, Paul A. & Nordhaus, William D. (2010). Economics. Tata McGraw Hill. 2. Koutsoyiannis, A. (2008, 2nd ed.). Modern Microeconomics. Macmillan. 3. Stonier, A.W. & Hague, Douglas C. (2003, 5th ed.). A Textbook of Economic Theory. Pearson.		

Course Articulation Matrix

POs / Cos	PO1	PO2	PO3	PO4	PO5	PO6	PSO1	PSO2	PSO3	PSO4
CO1	3	-	-	3	2	-	3	3	-	2
CO2	3	-	2	3	2	-	3	3	-	2
CO3	3	-	-	3	-	2	3	3	-	3
CO4	3	-	2	3	-	2	3	3	-	3
CO5	3	-	-	3	3	2	3	3	-	3
CO6	3	-	2	3	3	3	3	3	-	3

1-Low 2- Medium 3-High

School: SSHSS		**Batch: 2025-29**	
Program: MA		**Current Academic Year: 2025-26**	
Branch: MA		**Semester: I**	
1	Course Code	**IKT1103**	
2	Course Title	**Indian Knowledge System**	
3	Credits	**2**	
4	Contact Hours	**2-0-0**	
	Course Type	**Value Added Course**	
5	Course Objectives	1. To introduce students to the fundamental principles and introductory aspects of Indian Knowledge Systems. 2. To enable students to interpret select texts from the Vedic corpus, encouraging them to develop their perspectives 3. To gain insights from Indian Knowledge Systems to engage in discussions relating to contemporary issues and problems in various fields 4. To foster an integrative understanding of knowledge by relating traditional Indian wisdom to modern challenges, promoting interdisciplinary approaches, and innovative solutions. 5. To guide students in evaluating the philosophical, cultural, and spiritual dimensions of ancient Indian texts, providing them with a deeper appreciation of the values and ideas that have shaped Indian thought. 6. To cultivate an appreciation for the ethical and moral dimensions embedded in Indian Knowledge Systems, encouraging students to reflect on the importance of these values in both historical and contemporary contexts.	
6	Course Outcomes	Students will be able to: CO1: Identify the meaning, nature, and scope of IKS CO2: Interpret the Vedic corpus from their perspectives CO3: Apply knowledge gained from IKS and relate it to contemporary times CO4: Relate traditional wisdom to modern challenges, fostering an integrative understanding of knowledge. CO5: Evaluate the philosophical, cultural, and spiritual dimensions of Ancient Texts CO6: Develop an appreciation for the ethical and moral dimensions embedded in IKS.	
7	Course Description	This course provides an in-depth exploration of the Indian Knowledge System (IKS), encompassing its meaning, nature, and scope. Students will engage with the Vedic corpus and other classical texts, interpreting them through their perspectives while developing critical thinking skills. The course emphasizes the application of traditional knowledge to contemporary times, encouraging students to relate ancient wisdom to modern challenges and fostering an integrative understanding of knowledge.	
8			
	Unit 1	**Indian Knowledge System: An Introduction**	
	A	Indian Knowledge System: Meaning and Nature	CO1
	B	IKS: Varied Disciplines and Scope	CO1
	C	Historicity of IKS	CO1
	Unit 2	**Introduction to Ancient Indian Literature**	
	A	Introduction to 4 Vedas: Rigveda, Samaveda, Yajurveda, and	CO2

		Atharvaveda.	
	B	Introduction to Itihasas: Mahabharata and Ramayana	CO2
	C	Introduction to Arthashastra	CO2
	Unit 3	**Introduction to Ancient Philosophical Concepts**	
	A	Introduction to the Schools of Indian Philosophy: Astika and Nastika	CO4
	B	Introduction to the Philosophical Concepts from the *Bhagavad Gita*: Jyana yoga (knowledge), karma yoga (action) and bhakti yoga (devotion)	CO4
	C	Relevance of Ancient Philosophical Concepts in Contemporary Times	CO3
	Unit 4	**Ayurveda and Food Nutrition**	
	A	Ayurvedic Principles of Food Habits	CO3, CO4
	B	Principles of Diet: Sattvik, Rajasic, and Tamasic	CO3
	C	Lifestyle Management with Dincharya and Ritucharya	CO3, CO4
	Unit 5	**Natya, Kavya, Scripts, Languages and Linguistics: An Introduction**	
	A	Introduction to Natya, Rasas, and Kavya	CO3, CO5
	B	Introduction to Languages and Scripts	CO3, CO5
	C	Introduction to Linguistics	CO5, CO6
	Mode of examination	Quiz, Assignment	
	Text book/s and other sources	Kapil, Kapoor& A.K. Singh. (2005). Indian Knowledge System. Vol 1,2. DK Print World Ltd. Kumar, M. J. (2024). Forging Connections: Integrating Indian Knowledge Systems in Higher Education. *IETE Technical Review*, *41*(3), 271–273. https://doi.org/10.1080/02564602.2024.2342625	

Course Articulation Matrix

POs / Cos	PO1	PO2	PO3	PO4	PO5	PO6	PSO1	PSO2	PSO3	PSO4
CO1										
CO2										
CO3										
CO4										
CO5										
CO6										

1-Low 2-Medium 3-High

School: SSHSS		**Batch: 2025-29**	
Program: B.A./ B.A. (Hons)/ B.A. (Hons with Research)		**Current Academic Year: 2025-26**	
Branch: Economics		**Semester: I**	
1	Course Code	EOP1101	
2	Course Title	Principles of Microeconomics-I (Practical)	
3	Credits	1	
4	Contact Hours (L-T-P)	0-0-2	
	Course Status	Core Practical	
5	Course Description	The Course is designed for the student's pursuing graduation with Economics in regular mode. The programme aims to inculcate economic thinking among the students in economic decision making by comprehending economic theory. This course introduces microeconomic theory, covering demand and supply, consumer behavior, production, costs, and market structures. It equips students with analytical skills to interpret market outcomes and evaluate economic models.	
6	Course Objective	The objective of this course is to equip students with a strong foundation in microeconomic theory. After completion of the course, the following objectives will be attained: 1. Recall core microeconomic concepts such as demand, supply, elasticity, consumer behavior, production, costs, and market structures. 2. Analyze market dynamics and interpret firm behavior using microeconomic principles. 3. Evaluate the efficiency and welfare implications of different market conditions and policies. 4. Apply microeconomic theories to real-world scenarios for effective problem-solving and decision-making.	
7	Course Outcomes	On completion of this course, the learners will be able to: CO1: **Explain** fundamental microeconomic concepts, including scarcity, opportunity cost, and market equilibrium through demand and supply analysis. CO2: **Analyze** price, income, and cross elasticities of demand and supply, and their impact on market behavior. CO3: **Apply** consumer behavior theories using utility analysis, indifference curves, and the income and substitution effects. CO4: **Examine** production functions, cost structures, and revenue concepts to understand firms' decision-making processes. CO5: **Evaluate** market structures, including perfect and monopolistic competition, monopoly, and their implications on efficiency and welfare. CO6: **Interpret** oligopoly pricing strategies, price discrimination, and the social costs associated with it.	
8	Outline syllabus		**CO Mapping**
	Unit 1	**Introduction:**	

	A	Meaning and scope of Microeconomics: Practical application of the concept of opportunity cost with help of an example. Case study: A family's monthly spending decisions	**CO1**
	B	Identify a commodity and show how quantity demanded of that commodity is inversely related with its price, shifts in demand versus movements along a demand curve	**CO1**
	C	Application of the concept of consumer surplus	**CO1**
	Unit 2	**Elasticity of Demand and Elasticity of Supply**	
	A	Case Study on Elasticity of Demand	**CO2**
	B	Measuring price elasticity of demand using percentage method, proportionate method, geometric method	**CO2**
	C	Measuring price elasticity of supply	**CO2**
	Unit 3	**Theory of Consumer Behavior**	**CO2**
	A	Understand the consumer behavior with the help of the concept of utility, Measure your own utility using food or entertainment choices	**CO3**
	B	Practical Application of indifference curve analysis and budget constraint in day-to-day life	**CO3**
	C	Derivation of Hicks and Slutsky Price effect using dataset	**CO3**
	Unit 4	**Production, Cost and Revenue**	
	A	Production Function: Derivation of production function, application of law of variable proportions.	**CO4**
	B	Cost Function: Derivation of cost function with given data	**CO4**
	C	Concepts of Revenue: Derivation of total, average and marginal revenue curves from the given dataset, Break even analysis and its uses.	**CO5**
	Unit 5	**Market Structures**	
	A	Perfect Competition: Identifying a product in a perfectly competitive market, characterstics	**CO5**
	B	Monopoly: Price Discrimination, Practical analysis of monopoly market structure by identifying an industry in a local area	**CO6**
	C	Monopolistic competition & Monopoly: Compare pricing strategies of street vendors vs branded stores	**CO6**
	Mode of examination	Practical	

11	Weightage Distribution	CA	CE	Viva
		30%	30%	40%

	Readings/ Text Books	1. Ahuja, H.L. Advanced Economic Theory: Microeconomic Analysis. 20th Edition, S. Chand Publications. 2. Ahuja, H.L. Principles of Microeconomics: A New-Look Textbook of Microeconomic Theory. Latest Edition, S. Chand Publications. 3. Dwivedi, D.N. Microeconomics: Theory and Applications. Latest Edition, Pearson Education. 4. Lipsey, Richard G., & Chrystal, Alec K. Principles of Economics. 9th Edition, Oxford University Press. 5. Pindyck, Robert S., & Rubinfeld, Daniel L. Microeconomics. 9th Edition, Pearson Education. 6. Salvatore, Dominic. Microeconomics: Theory and Practice. Latest Edition, Oxford University Press. 7. Samuelson, Paul A., & Nordhaus, William D. Economics. 21st Edition, Tata McGraw Hill. 8. Koutsoyiannis, A. Modern Microeconomics. 2nd Edition, Macmillan.avinuty.ac.in

	Other References	1. Baumol, W.J. (1982), Economic Theory and Operations Analysis, Prentice Hall of India, New Delhi. 2. Hirshleifer, J. and A. Glazer (1997), Price Theory and Applications, Prentice Hall of India, New Delhi. 3. Green, H.A.G. (1971), Consumer Theory, Penguin, Harmondsworth. 4. Henderson, J.M. and R.E. Quandt (1980), Microeconomic Theory: A Mathematical Approach, McGraw Hill, New Delhi. 5. Da Costa, G.C. (1980), Production, Prices and Distribution, Tata McGraw Hill, New Delhi. 6. Archibald, G.C. (Ed.) (1971), Theory of the Firm, Penguin, Harmondsworth. 7. Bain, J. (1958), Barriers to New Competition, Harvard University Press, Harvard. 8. Bronfenbrenner, M. (1979), Income Distribution Theory, Macmillan, London.

Course Articulation Matrix

POs / Cos	PO1	PO2	PO3	PO4	PO5	PO6	PSO1	PSO2	PSO3	PSO4
CO1	3	-	1	2	2	-	3	3	-	-
CO2	3	-	-	3	2	-	3	3	-	2
CO3	3	-	-	3	-	2	3	3	-	-
CO4	3	-	-	3	-	2	3	3	-	3
CO5	3	-	2	3	3	2	3	3	-	3
CO6	3	-	2	3	3	3	3	3	-	3

1-Low 2-Medium 3-High

School: SSHSS		**Batch: 2025-29**	
Program: B.A./ B.A. (Hons)/ B.A. (Hons with Research)		**Current Academic Year: 2025-26**	
Branch: Economics		**Semester: I**	
1	Course Code	EOP1104	
2	Course Title	Database & Data Visualization	
3	Credits	2	
4	Contact Hours (L-T-P)	0-1-2	
	Course Status	Multidisciplinary	
5	Course Description	This course introduces students to fundamental concepts of data handling, visualization, and interpretation. It covers data types, sources, collection methods, and quality assessment. Students will learn how to organize, clean, and manage data efficiently. The course also emphasizes data visualization, reporting, and ethical considerations in data analysis. Through practical applications, students will gain proficiency in using basic data tools to create effective visual representations and reports for decision-making.	
6	Course Objective	The objective of this course is: 1. Recall fundamental skills in data collection, organization, visualization, and reporting. 2. Apply various tools and techniques to interpret and present data effectively. 3. Analyze data-driven scenarios through hands-on projects, enhancing decision-making abilities. 4. Evaluate the ethical use of data in practical applications and real-world contexts.	
7	Course Outcomes	On completion of this course the learners will be able to CO1: **Define** different types of data, data sources, and data collection methods along with their quality assessment. CO2: **Explain** techniques clean, and standardize data using basic tools like Excel and Google Sheets. CO3: **Develop** appropriate data visualization techniques and tools for effective presentation of information. CO4: **Analyse**, data-driven reports using reporting tools such as PowerPoint and Tableau Public. CO5: **Interpret** data accurately while recognizing common pitfalls and adhering to ethical standards. CO6: **Demonstrate** practical data analysis skills through a final project by preparing and presenting a data report.	
8	Outline syllabus		**CO Mapping**
	Unit 1	**Introduction to Data & Database**	

	A	Types of Data (Structured vs. Unstructured), Sources of Data (Primary vs. Secondary)	**CO1**
	B	Data Collection Methods (Surveys, Interviews, Online Sources) and Quality Assessment,	**CO1**
	C	Database in economics, key database in economics	**CO1**
	Unit 2	**Data Organization and Cleaning**	
	A	Identifying and Handling Missing Data	**CO2**
	B	Data Consistency and Standardization	**CO2**
	C	Introduction to Basic Data Tools (Google Sheets, Excel)	**CO2**
	Unit 3	**Data Presentation Techniques**	
	A	Basics of Data Visualization	**CO3**
	B	Choosing the Right Charts (Bar, Pie, Line, Scatter) and Graphs	**CO3**
	C	Using Free Online Tools for Visualization (Canva)	**CO3**
	Unit 4	**Reporting**	
	A	Creating Data-Driven Reports	**CO4**
	B	Introduction to Tools like PowerPoint, Tableau Public	**CO4**
	C	Combining multiple data sources for comprehensive analysis.	**CO4**
	Unit 5	**Data Interpretation and Ethical Considerations**	
	A	Common Pitfalls in Data Analysis and Presentation	**CO5**
	B	Ethical Use of Data in Research and Business	**CO5**
	C	Final Project: Preparing and Presenting a Small Data Report	**CO6**
	Mode of examination	Practical	

11	Weightage Distribution	CA	CE	Viva
		30%	30%	40%

	Readings/ Text Books	1. Data Science for Business- Foster Provost & Tom Fawcett, O'Reilly Media, 2013 2. Data Management for Researchers- Kristin Briney, Pelagic Publishing, 2015 3. The Visual Display of Quantitative Information" – Edward R. Tufte, Graphics Press, 2001 4. Data Visualization: A Practical Introduction- Kieran Healy, Princeton University Press, 2018 5. Data Analysis with Excel- Conrad Carlberg, Que Publishing, 2017 6. Business Data Science: Combining Machine Learning and Economics to Optimize Decisions- Matt Taddy, McGraw-Hill Education, 2019

	Other References	1. Data Analysis with Excel- Conrad Carlberg, Que Publishing, 2017 2. Business Data Science: Combining Machine Learning and Economics to Optimize Decisions- Matt Taddy, McGraw-Hill Education, 2019

Course Articulation Matrix

POs Cos	PO1	PO2	PO3	PO4	PO5	PO6	PSO1	PSO2	PSO3	PSO4
CO1	3	2	-	2	-	-	2	3	-	2
CO2	-	3	-	-	2	-	-	3	-	2
CO3	-	3	2	-	3	-	-	2	-	3
CO4	-	3	3	2	3	2	-	2	-	3
CO5	-	2	-	3	3	2	2	3	-	3
CO6	-	3	3	3	3	3	-	3	-	3

1-Low 2-Medium 3-High

School: SSHSS		**Batch: 2025-29**	
Program: B.A./ B.A. (Hons)/ B.A. (Hons with Research)		**Current Academic Year: 2025-26**	
Branch: Economics		**Semester: I**	
1	Course Code	AI8201	
2	Course Title	Fundamentals of Artificial Intelligence in Economics	
3	Credits	3	
4	Contact Hours (L-T-P)	0-1-4	
	Course Status	Skill Enhancement Course (SEC)	
5	Course Description	This course provides an introduction to Artificial Intelligence (AI), covering its history, fundamental concepts, and real-world applications. Students will explore how AI systems work, the role of machine learning and big data, and the ethical considerations surrounding AI adoption. The course also examines AI's impact on society, industries, and the future of work, preparing students to understand AI's role in an increasingly automated world.	
6	Course Objective	The course has the following objective: 1. To Recall what AI is and how it functions in simple terms. 2. To Explain different types of AI and their applications across industries. 3. To Examine the role of AI in everyday life, including smartphones and social media. 4. To Illustrate the basics of machine learning and how AI learns from data.	
7	Course Outcomes	On completion of this course the learners will be able to CO1: **Define** the fundamentals of AI, including its history, evolution, types, and applications in daily life. CO2: **Demonstrate** understanding of AI's working principles, including machine learning and big data. CO3: **Identify** AI's role in transforming healthcare, education, and environmental sustainability. CO4: **Examine** ethical concerns surrounding AI, such as data privacy, bias, and regulatory issues. CO5: **Deduct** emerging trends in AI, including integration with IoT, autonomous systems. CO6: **Discuss** emerging trends in AI in view of global development.	
8	Outline syllabus		**CO Mapping**
	Unit 1	**Introduction of AI**	
	A	Introduction to AI: History and Evolution	**CO1**
	B	Types of AI (Narrow AI vs. General AI)	**CO1**

	C	AI in Everyday Life (Smartphones, Virtual Assistants, social media)	**CO1**
	Unit 2	**Working of AI**	
	A	Basics of Machine Learning: How AI Learns from Data	**CO2**
	B	The Role of Big Data in AI Development	**CO2**
	C	AI vs. Human Intelligence: Differences and Limitations	**CO2**
	Unit 3	**AI in Society**	
	A	AI in Healthcare (Disease Prediction, Robot-Assisted Surgery)	**CO3**
	B	AI in Education (Personalized Learning, Automated Grading)	**CO3**
	C	AI in Environment (Environmental monitoring, Conservation, and Sustainability)	**CO3**
	Unit 4	**Ethics and Risks of AI**	
	A	AI and Privacy: How AI Collects and Uses Data	**CO4**
	B	AI Bias and Fairness in Decision-Making	**CO4**
	C	Ethical Challenges in AI Deployment (Regulatory Issues, Accountability, and Transparency)	**CO4**
	Unit 5	**The Future of AI**	
	A	AI and Emerging Technologies (Integration with IoT, Blockchain, and Cloud Computing)	**CO5**
	B	AI in Autonomous Systems (Self-Driving Cars, Drones, and Smart Cities)	**CO5**
	C	AI in Global Development (Addressing Poverty, Disaster Management, and Crisis Prediction)	**CO6**
	Mode of examination	Practical	
11	Weightage Distribution	CA / CE / Viva	
		30% / 30% / 40%	
	Readings/ Text Books	1. Artificial Intelligence: A Guide for Thinking Humans- Melanie Mitchell, Farrar, Straus and Giroux, 2019 2. Artificial Intelligence: A New Synthesis- Nils J. Nilsson, Morgan Kaufmann, 1998	
	Other References	1. Artificial Intelligence: A Modern Approach- Stuart Russell & Peter Norvig, Pearson, 2020	

Course Articulation Matrix

POs Cos	PO1	PO2	PO3	PO4	PO5	PO6	PSO1	PSO2	PSO3	PSO4
CO1	3	1	-	2	-	-	2	2	-	1
CO2	3	3	-	1	-	-	2	3	-	-
CO3	2	3	1	3	-	2	3	3	-	2
CO4	1	-	2	3	-	3	2	2	-	3
CO5	2	3	1	3	-	3	3	3	-	3
CO6	2	3	-	3	-	3	3	3	-	3

1-Low 2-Medium 3-High

School: SSHSS		**Batch: 2025-29**
Program: B.A./ B.A. (Hons)/ B.A. (Hons with Research)		**Current Academic Year: 2025-26**
Branch: Economics		**Semester: I**
1	Course Code	ARP101
2	Course Title	Communicative English-1
3	Credits	2
4	Contact Hours (L-T-P)	0-1-2
5	Course Status	AEC
6	Course Description	The course is designed to equip students, who are at a very basic level of language comprehension, to communicate and work with ease in varied workplace environment. The course begins with basic grammar structure and pronunciation patterns, leading up to apprehension of oneself through written and verbal expression as a first step towards greater employability.
7	Course Objectives	The course has the following objectives: 1. Enhance students' ability to communicate effectively in diverse socio-linguistic settings by using English as a common medium. 2. Expose students to different English accents to improve their comprehension and help them develop a more standardized form of spoken English. 3. Develop students' listening, speaking, reading, and writing abilities to ensure well-rounded language proficiency. 4. Encourage self-expression and self-confidence while fostering a positive mindset toward communication in English.
8	Course Outcomes	After completion of this course, students will be able to: CO1: **Show** a better understanding of advanced grammar rules and write grammatically correct sentences CO2: **Demonstrate** wide vocabulary and punctuation rules and learn strategies for error-free communication. CO3: **Interpret** texts, pictures and improve both reading and writing skills which would help them in their academic as well as professional career CO4: **Comprehend** language and improve speaking skills in academic and social contexts CO5: **Construct,** share and maximise new ideas with the concept of brainstorming and the documentation of key critical thoughts articulated towards preparing for a career based on their potentials and availability of opportunities. CO6: **Function** effectively in multi-disciplinary teams through the knowledge of team work, Inter-personal relationships, conflict management and leadership quality
9	Outline syllabus	**CO Mapping**

	Unit 1	**Sentence Structure**	
	A	Subject Verb Agreement	**CO1**
	B	Parts of speech	**CO1**
	C	Writing well-formed sentences	**CO1**
	Unit 2	**Vocabulary Building & Punctuation**	**CO1**
	A	Homonyms/ homophones, Synonyms/Antonyms	**CO2**
	B	Punctuation/ Spellings (Prefixes-suffixes/Unjumbled Words)	**CO2**
	C	Conjunctions/Compound Sentences	**CO2**
	Unit 3	**Writing Skills**	
	A	Picture Description – Student Group Activity	**CO3**
	B	Positive Thinking - Dead Poets Society-Full-length feature film - Paragraph Writing inculcating the positive attitude of a learner through the movie | SWOT Analysis – Know yourself	**CO3**
	C	Story Completion Exercise –Building positive attitude - The Man from Earth (Watching a Full length Feature Film), Digital Literacy | Effective Use of Social Media	**CO3**
	Unit 4	**Speaking Skill**	
	A	Self-introduction/Greeting/Meeting people – Self branding	**CO4**
	B	Describing people and situations - To Sir With Love (Watching a Full length Feature Film)	**CO4**
	C	Dialogues/conversations (Situation based Role Plays)	**CO4**
	Unit 5	**Professional Skills | Career Skills**	
	A	Exploring Career Opportunities	**CO5**
	B	Brainstorming Techniques & Models	**CO5**
	C	Social and Cultural Etiquettes, Internal Communication	**CO5**
	Unit 6	**Leadership and Management Skills**	
		Managerial Skills	**CO6**
		Entrepreneurial Skills	**CO6**
10	Mode of examination	Theory	
11	Weightage Distribution	CA: 60%	ESE: 40%
11	Readings/ Text Books	1. A Textbook of English Phonetics for Indian Students – T. Balasubhramanian- Macmillan Publications 2. The Phonetics and Phonology of English: A Handbook – D Thakur – Bharati Bhawan 3. Better English Pronunciation – J.D. O'Connor – Cambridge University Press 4. English Phonetics and Phonology – Peter Roach – Cambridge University Press 5. Pronunciation Practice Activities – Martin Hewings – Cambridge University Press	
	Other References	1. An Outline of English Phonetics- Daniel Jones 2. English Pronouncing Dictionary- Daniel Jones 3. A Course in Phonetics- Peter Ladefoged 4. English Pronunciation in Use- Martin Hewings- Cambridge University Press 5. Intonation in Context- Barbara Bradford & David Brazil	

Course Articulation Matrix

POs / Cos	PO1	PO2	PO3	PO4	PO5	PO6	PSO1	PSO2	PSO3	PSO4
CO1	-	-	-	-	3	-	-	-	-	-
CO2	-	-	-	-	3	-	-	-	-	-
CO3	-	-	-	-	3	-	-	-	-	-
CO4	-	-	-	-	3	2	-	-	-	-
CO5	-	-	-	-	3	3	-	-	-	-
CO6	-	-	-	-	3	3	-	-	-	-

1-Low 2-Medium 3-High

SEMESTER-II

Sr. No	Course Code	Course Name	L	T	P	Credits	Category
1	EOT1105	Principles of Macroeconomics-I	4	0	0	4	CC
2	EOT1106	Statistical Methods for Economics	3	0	0	3	CC
3	EOT1107	Introductory Macroeconomics	3	0	0	3	Minor Elective
4	EVT1129	Environmental Education	2	0	0	2	VAC
5	IKT1104	Mulyapravah	2	0	0	2	VAC
6	EOP1106	Statistical Methods for Economics (Practical)	0	0	2	1	Core practical
7	ARP102	Communicative English-2	0	0	4	2	AEC
8	AI8202	Application of AI in Economics	0	1	4	3	SEC
Semester 2 Credits:20 Min : Max:							

School: SSHSS		**Batch: 2025-29**	
Program: B.A./ B.A. (Hons)/ B.A. (Hons with Research)		**Current Academic Year: 2025-26**	
Branch: Economics		**Semester: II**	
1	Course Code	EOT1105	
2	Course Title	Principles of Macroeconomics-I	
3	Credits	4	
4	Contact Hours (L-T-P)	4-0-0	
5	Course Status	Major- CC	
6	Course Description	The Course is designed for the student's pursuing graduation with economics in regular mode. The programme aims to inculcate economic thinking among the students in economic decision making by comprehending economic theory.	
7	Course Objectives	The course has the following objective: 1. To explain national income, its calculation methods, and related economic concepts, providing a strong foundation in macroeconomic measurement. 2. To illustrate the classical and Keynesian theories of employment and output, comparing their assumptions and implications for economic stability. 3. To analyze the factors influencing aggregate demand and aggregate supply, assessing their role in economic growth and fluctuations. 4. To examine the consumption and investment functions, understanding their significance in income determination and business cycles.	
8	Course Outcomes	On completion of this course the students will be able to CO1: **Explain** national income, its calculation methods, and related concepts. CO2: **Illustrate** the classical theory of employment and output. CO3: **Make use of** the Keynesian theory of employment and output. CO4: **Explain** the consumption and investment functions. CO5: **Analyze** the determining factors of aggregate demand (AD) and aggregate supply (AS). CO6: **Examine** economic fluctuations using the AD and AS model.	
9	Outline syllabus		**CO Mapping**
	Unit 1	**Introduction and National Income Accounting**	
	A	Definition, Meaning, Scope, Significance and Limitations of Macroeconomics, Macro vs Micro Economics.	**CO1**
	B	Introduction to National Income and GVA, Concepts of GDP, GNP, NDP and NNP at market price and factor cost; Personal Income and Disposable Personal Income. Measurement of National Income- Income, expenditure, product or Value-added Methods and related aggregates; nominal and real income.	**CO1**
	C	Circular Flow of Income and expenditure in two, three, and four-sector economy, Green Accounting.	**CO1**
	Unit 2	**Classical Theory of Employment & Output**	
	A	Classical Assumptions, Say's law of Markets, Wage & Price	**CO2**

		Flexibility.	
	B	Classical theory of employment & output, classical dichotomy.	**CO2**
	C	Keynes critique of classical theory.	**CO2**
	Unit 3	**Keynesian Theory of Employment & Output**	
	A	Assumptions, Concept of Principle of effective demand, Money Wage Rigidity.	**CO3**
	B	Determination of the equilibrium level of employment by effective demand.	**CO3**
	C	Underemployment equilibrium: Problem of Deficiency of Demand.	**CO3**
	Unit 4	**Consumption Function & Investment Demand**	
	A	Factors determining consumption, Propensity to Consume & its determinants, Propensity to Save, Shape of Consumption & Saving Curve.	**CO4**
	B	Keynes psychological law of consumption, Consumption function puzzle, relative income and life-cycle hypothesis.	**CO4**
	C	Investment function, Induced vs Autonomous Investment, Ex-ante vs Ex-post investment, Keynes theory of Investment, Multiplier theory & its assumptions, Saving –Investment Equality.	**CO4**
	Unit 5	**Aggregate Demand & Aggregate Supply Model**	
	A	AD & its slope, Derivation of AD Curve, Shift in AD curve & multiplier effect	**CO5**
	B	AS curve & its slope, Classical vs Keynes's and modern view, short run and long run perspective of Aggregate Supply	**CO5,**
	C	Macroeconomic Equilibrium in short & long run (AD-AS model), Analysing economic fluctuation using AD-AS model.	**CO6**
10	Mode of examination	Theory	
11	Weightage Distribution	CA: 25% / MTE: 25%	ETE: 50%
12	Readings/ Text Books	1. Ackley, G. (1976). Macroeconomics: Theory and Policy. Macmillan, New York. 2. Branson, W.A. (1998). Macroeconomics: Theory and Policy (2nd Revised Edition). Addison Wesley Longman. 3. Dornbusch, Rudiger; Fischer, Stanley; Startz, Richard. (2018). Macroeconomics (13th Edition). McGraw Hill. 4. Hansen, A.H. (1953). A Guide to Keynes. McGraw Hill. 5. Shapiro, Edward. (2005). Macroeconomic Analysis. Galgotia Publications, New Delhi. 6. Sikdar, Saumyen. (2011). Principles of Macroeconomics. Oxford University Press, New Delhi. 7. N. Gregory Mankiw – Macroeconomics (7th Ed., Worth Publishers, 2010). 8. David Romer – Advanced Macroeconomics (5th Ed., McGraw-Hill, 2018). 9. Stephen D. Williamson – Macroeconomics (6th Ed., Pearson, 2021). 10. The CORE Team – The Economy: Economics for a Changing World (1st Ed., Oxford University Press, 2017). 11. N. Gregory Mankiw – Principles of Macroeconomics (8th Ed., Cengage Learning, 2017). 12. Dirk Ehnts – Modern Monetary Theory and European	

		Macroeconomics (1st Ed., Routledge, 2016). 13. D.N. Dwivedi – An Introduction to Macroeconomics (Himalaya Publishing House, Latest Ed.).
	Other References	1. Amritkant Mishra – Modern Macroeconomics: Bridging Concept to Realities (Sultan Chand & Sons, 2025 Ed.). 2. K.R. Gupta, R.K. Mandal & Amita Gupta – Macroeconomics (Atlantic Publishers, 2022 Ed.). 3. Mihir Rakshit (Ed.) – Macroeconomics of Post-reform India (Oxford University Press, 2009 Ed.). 4. H.L. Ahuja – Macroeconomics: Theory and Policy (20th Ed., S. Chand, 2022) and Principles of Macroeconomics (S. Chand, 2022).

Course Articulation Matrix

POs / Cos	PO1	PO2	PO3	PO4	PO5	PO6	PSO1	PSO2	PSO3	PSO4
CO1	3	-	2	3	-	2	3	3	-	2
CO2	3	-	2	3	-	2	3	3	-	3
CO3	3	-	3	3	-	3	3	3	-	3
CO4	3	-	3	3	-	3	3	3	-	3
CO5	3	-	3	3	-	3	3	3	-	3
CO6	3	-	3	3	-	3	3	3	-	3

1-Low 2-Medium 3-High

School: SSHSS		**Batch: 2025-29**
Program: B.A./ B.A. (Hons)/ B.A. (Hons with Research)		**Current Academic Year: 2025-26**
Branch: Economics		**Semester: II**
1	Course Code	EOT1106
2	**Course Title**	**Statistical Methods for Economics**
3	Credits	3
4	Contact Hours (L-T-P)	3-0-0
	Course Status	Major-CC
5	Course Description	This course provides a strong foundation in statistical tools and techniques essential for economic analysis. Student, will be able to learn how to collect, interpret, and analyse economic data using various statistical methods and its significance in policy formulation. By the end of the course, student would be able to apply statistical techniques to real-world economic problems, evaluate economic relationships, and make data-driven decisions.
6	Course Objective	The course aims to equip students with fundamental statistical skills for economic analysis. The course has the following objectives: 1. To define fundamental statistical concepts, describe data collection methods, and classify different types of data for economic analysis. 2. To apply descriptive statistical methods, including measures of central tendency and dispersion, for data interpretation and summarization. 3. To utilize correlation and regression techniques for analyzing economic data and drawing meaningful insights. 4. To explain probability theory concepts and demonstrate their applications in economic data analysis and decision-making.
7	Course Outcomes	On completion of this course the students will be able to: CO1: **Define** fundamental concepts of statistics, describe data collection methods, and classify different types of data. CO2: **Apply** descriptive statistical methods, including measures of central tendency and dispersion, to interpret data. CO3: **Utilize** correlation and regression techniques to analyze economic data and interpret the results. CO4: **Explain** probability theory concepts and demonstrate their application in economic data analysis. CO5: **Illustrate** the construction of index numbers, compare different types, and apply commonly used index formulas in statistics. CO6: **Describe** the NSO (National Statistical Office) approach to computing index numbers, including CPI and WPI, and interpret their significance.
8	Outline syllabus	**CO Mapping**

	Unit 1	**Introduction:**	
	A	Definition, Scope, importance and limitations of statistics Methods of data collection (Surveys, Sampling, Census).	**CO1**
	B	Types of data: Qualitative vs. Quantitative, Primary vs. Secondary, Data Presentation using Histogram and Bar diagram, Frequency Polygon, Cumulative Frequency Curves	**CO1**
	C	Sampling: Types & Concepts uses in sampling, Difference between random and non- random sampling,	**CO1**
	Unit 2	**Descriptive Statistics**	
	A	Measures of central tendency: Mean (arithmetic, geometric and harmonic mean), Median and Mode.	**CO2**
	B	Measures of dispersion: Range, Mean absolute deviation, Variance, Standard deviation, Mean Deviation	**CO2**
	C	Measures and types of Skewness and Kurtosis	**CO2**
	Unit 3	**Simple correlation and regression**	
	A	Fundamentals of least- square criterion, Regression lines, Properties of regression co- efficient.	**CO3**
	B	Standard Error of Estimate, Spearman rank correlation, Karl Pearson's Coefficient of Correlation.	**CO3**
	C	Introduction to Regression Analysis, Simple Linear Regression & Multiple linear regression analysis	
	Unit 4	**Elements of Probability**	
	A	Introduction to Concept of Probability, Types of Events, sample space and Random Experiments	**CO4**
	B	Probability Rules and Theorems- addition, multiplication theorem and **Bayes' Theorem**	**CO4**
	C	Types of Probability Distributions- Binomial Distribution, Poisson Distribution, Normal Distribution	**CO4**
	Unit 5	**Index Numbers**	
	A	Definition, construction of index numbers for weighted and unweighted index numbers- Laspeyre's, Paasche's, Edgeworth- Marshall and Fisher's Ideal Index numbers.	**CO5**
	B	Errors in Index numbers. Chain index numbers	**CO6**
	C	NSO approach of computing Index Number: CPI,WPI.	**CO6**
	Mode of examination	Theory	
11	Weightage Distribution	CA / MTE / ETE	
		25% / 25% / 50%	
	Readings Text book/s*	1. Gupta, S.C., & Kapoor, V.K. (2020). Fundamentals of Mathematical Statistics. Sultan Chand & Sons. 2. Yamane, Taro. (1973). Statistics: An Introductory Analysis. Harper &	

		Row. 3. Freund, John E., & Perles, Benjamin M. (2018). Modern Elementary Statistics. Pearson. 4. Anderson, David R., et al. (2020). Statistics for Business and Economics. Cengage Learning. 5. Goon, A.M., et al. (2016). Fundamentals of Statistics. The World Press Pvt. Ltd. 6. Elhance, D.N. (2015). Fundamentals of Statistics. Kitab Mahal. 7. Das, N.G. (2018). Statistical Methods. McGraw Hill Education. 8. Gupta, S.P. (2021). Statistical Methods. Sultan Chand & Sons. 9. Jain, T.R., & Aggarwal, S.C. (2022). Statistics for Economics. VK Global Publications. 10. Freedman, D., Pisani, R., & Purves, R. (2007). Statistics (4th Ed.). W. W. Norton & Company.
	Other References	1. Moore, D.S., McCabe, G.P., & Craig, B.A. (2016). Introduction to the Practice of Statistics (9th Ed.). W. H. Freeman. 2. Newbold, P., Carlson, W.L., & Thorne, B. (2019). Statistics for Business and Economics (9th Ed.). Pearson. 3. Weiss, N.A. (2016). Introductory Statistics (10th Ed.). Pearson.

Course Articulation Matrix

POs / Cos	PO1	PO2	PO3	PO4	PO5	PO6	PSO1	PSO2	PSO3	PSO4
CO1	3	3	2	-	-	2	3	3	3	-
CO2	2	3	3	-	-	3	2	3	3	-
CO3	2	3	3	2	-	3	2	3	3	2
CO4	2	3	3	2	-	3	2	3	3	2
CO5	2	3	3	2	-	3	2	3	3	2
CO6	2	3	3	2	-	3	2	3	3	2

1-Low 2-Medium 3-High

School: SSHSS		**Batch: 2025-29**	
Program: B.A./ B.A. (Hons)/ B.A. (Hons with Research)		**Current Academic Year: 2025-26**	
Branch: Economics		**Semester: II**	
1	Course Code	EOT1107	
2	Course Title	Introductory Macroeconomics	
3	Credits	3	
4	Contact Hours (L-T-P)	3-0-0	
	Course Status	Minor	
5	Course Description	The Course is designed for the student's pursuing graduation with Economics in regular mode. The programme aims to inculcate economic thinking among the students in economic decision making by comprehending economic theory.	
6	Course Objective	Upon completion of this course students will be able to: 1. To explain macroeconomics, its scope, objectives, and the circular flow of income. 2. To apply national income measurement methods and interpret key economic indicators. 3. To analyze aggregate demand, supply, consumption, investment, and the multiplier effect. 4. To identify types of unemployment, causes of inflation, and their trade-off in policy decisions.	
7	Course Outcomes	On completion of this course the learners will be able to: CO1: **Explain** the meaning, scope of macroeconomics, its key objectives, and the circular flow of income. CO2: **Apply** methods to measure national income and interpret GDP deflator, CPI, and other well-being indicators. CO3: **Analyze** aggregate demand, aggregate supply, consumption, investment, and the multiplier effect in income determination models. CO4: **Identify** different types of unemployment, causes of inflation, and understand the inflation-unemployment trade-off. CO5: **Evaluate** fiscal and monetary policies, their objectives, tools, and impact on the economy. CO6: **Assess** the effectiveness of fiscal versus monetary policies in achieving macroeconomic stability.	
8	Outline syllabus		**CO Mapping**
	Unit 1	**Introduction to Macroeconomics**	
	A	Definition and Scope of Macroeconomics: What is macroeconomics; Key objectives of macroeconomics: Economic growth, full employment, and price stability	**CO1**
	B	Basic Macroeconomic Variables: National income: GDP,	**CO1**

		GNP, and NNP; Unemployment and inflation; The business cycle	
	C	Macroeconomic Models and the Circular Flow of Income: The circular flow model of an economy	**CO1**
	Unit 2	**Measurement of National Income**	
	A	Concepts and Methods of Measuring National Income: Nominal vs. real GDP, The income, expenditure, and output methods of measuring GDP	**CO2**
	B	GDP Deflator and Price Indices: The GDP deflator and its calculation; The Consumer Price Index (CPI) and its significance	**CO2**
	C	Other Measures of Economic Well-being: Human Development Index (HDI); Green GDP and environmental considerations	**CO2**
	Unit 3	**Determinants of National Income**	
	A	Aggregate Demand and Aggregate Supply: Components of aggregate demand: Consumption, investment, government spending, and net exports; Aggregate supply in the short-run and long-run; The equilibrium of aggregate demand and aggregate supply	**CO3**
	B	Consumption and Investment: The consumption function and factors affecting consumption, The investment function and factors affecting investment	**CO3**
	C	The Multiplier Effect: The concept of the multiplier in macroeconomics; Approach of Classical & Keynesian model of income determination	**CO3**
	Unit 4	**Unemployment and Inflation**	
	A	Unemployment and its Types: The definition of unemployment; Types of unemployment: Frictional, structural, cyclical, and seasonal	**CO4**
	B	Inflation: Causes and Consequences: Demand-pull vs. cost-push inflation; The role of expectations in inflation; The impact of inflation on the economy	**CO4**
	C	Inflation-Unemployment Trade-off; The concept of stagflation	**CO4**
	Unit 5	**Macroeconomic Policies**	
	A	Fiscal Policy: Definition and objectives of fiscal policy;	**CO5**
	B	Monetary Policy: The role of central banks in monetary policy; Tools of monetary policy: Open market operations, reserve requirements, and interest rates.	**CO5**
	C	Policy Debate: Fiscal vs. Monetary Policy: The interaction between fiscal and monetary policy	**CO6**
	Mode of examination	Theory	
11	Weightage Distribution	CA / MTE / ETE	
		25% / 25% / 50%	
	Readings/ Text Books	1. Dornbusch, R., Fischer, S., & Startz, R. (2010). Macroeconomics (11th ed.). McGraw Hill.	

		2. Mankiw, N. G. (2010). Macroeconomics (7th ed.). Worth Publishers. 3. Blanchard, O. (2009). Macroeconomics (5th ed.). Pearson Education, Inc. 4. Froyen, R. T. (2005). Macroeconomics (2nd ed.). Pearson Education Asia.
	Other References	1. Abel, A. B., & Bernanke, B. S. (2011). Macroeconomics (7th ed.). Pearson Education, Inc. 2. D'Souza, E. (2009). Macroeconomics. Pearson Education. 3. Krugman, P. R., Obstfeld, M., & Melitz, M. (2012). International Economics (9th ed.). Pearson Education Asia.

Course Articulation Matrix

POs / Cos	PO1	PO2	PO3	PO4	PO5	PO6	PSO1	PSO2	PSO3	PSO4
CO1	3	-	-	2	-	-	3	3	-	1
CO2	3	-	-	3	-	-	3	3	-	2
CO3	3	-	2	3	-	2	3	3	-	2
CO4	2	-	2	3	-	3	3	3	-	3
CO5	3	-	2	3	-	3	3	3	-	3
CO6	2	-	1	3	-	3	3	3	-	3

1-Low 2-Medium 3-High

School: SSHSS		**Batch: 2025-2026**
Program: All		**Current Academic Year: 2025-2026**
Branch: All		**Semester: II**
1	**Course Code**	**EVT1129**
2	Course Title	Environmental Education
3	Credits	02
4	Contact Hours (L-T-P)	2-0-0
	Course Status	Compulsory
5	Course Objective	1. Enable students to learn the concepts, principles and importance of environmental science. 2. Provide students an insight of various causes of natural resource depletion and its conservation. 3. Provide detailed knowledge of causes, effects and control of different types of environmental pollution and its effect on climate change, global warming and ozone layer depletion. 4. Provide knowledge of different methods of water conservation. 5. Provide and enrich the students about sustainable practices and environmental management.
6	Course Outcomes	CO1.Develop a better understanding of the principles and scope of environmental science. CO2. Acquire to learn various pollution causes, effects and control and solid waste management. CO3. Interpret the effect of global warming and ozone layer depletion. CO4. Comprehend about various types of natural resources and its conservation. CO5. Develop a better understanding about sustainable practices and environmental management. CO6. Function effectively on overall understanding of various environmental components, its protection and management.

7	Course Description	Environmental Science emphasises on various factors as 1. Importance and scope of environmental science 2. Natural resource conservation
		3. Pollution causes, effects and control methods 4. Sustainable and environmental protection

8	Outline syllabus		CO Mapping
	Unit 1	**Humans and the Environment**	
	A	The man-environment interaction: Humans as hunter gatherers; Industrial revolution and its impact on the environment; Population growth and natural resource exploitation.	CO1
	B	The Club of Rome- Limits to Growth; UN Conference on Human Environment 1972; World Commission on Environment and Development.	CO1
	C	The concept of sustainable development; Rio Summit and subsequent international efforts.	CO1
	Unit 2	**Natural Resources and Sustainable Development**	
	A	Overview of natural resources: Classification of natural resources- biotic and abiotic, renewable and non renewable. Biotic resources: forests, grasslands, wetlands, wildlife and aquatic, water resources.	CO2
	B	Renewable and non-renewable sources of energy; Conventional energy sources- coal, oil, natural gas, nuclear energy.	CO2
	C	Non-conventional energy sources- solar, wind, tidal, hydro, wave, ocean thermal, geothermal, biomass, hydrogen and fuel cells. Introduction to sustainable development: Sustainable Development Goals (SDGs).	CO2
	Unit 3	**Environmental Issues: Local, Regional and Global**	
	A	Environmental issues and scales: local, regional, and global phenomena. Pollution: Types of Pollution- air, noise, water, soil, thermal, radioactive; municipal solid waste, hazardous waste.	CO3/CO6

	B	Land use and Land cover change: land degradation, deforestation, desertification, urbanization.	CO3/CO6
	C	Global change: Ozone layer depletion, Sources and impact on human health and ecosystems.	CO3/CO6
	Unit 4	**Conservation of Biodiversity and Ecosystems**	
	A	Biodiversity as a natural resource; Levels and types of biodiversity; Biodiversity in India and the world; Biodiversity hotspots.	CO4/CO6
	B	Ecosystems and ecosystem services: Major ecosystem types in India and their basic characteristics forests, wetlands, grasslands, agriculture, coastal and marine	CO4/CO6
	C	Threats to biodiversity and ecosystems. Major conservation policies: in-situ and ex-situ conservation approaches.	CO4/CO6
	Unit 5	**Climate Change: Impacts, Adaptation and Mitigation**	
	A	Understanding climate change: Natural variations in climate; Structure of atmosphere; Anthropogenic climate change from greenhouse gas emissions– past, present and future; Projections of global climate change with special reference to temperature, rainfall, climate variability and extreme events.	CO5/CO6
	B	Global warming effects, Green House Gas (GHG) reduction vs. sink enhancement; Concept of carbon intensity, energy intensity and carbon neutrality.	CO5/CO6
	C	National and international policy instruments for mitigation, and net zero targets for the future; Energy efficiency measures; Renewable energy sources; Carbon capture and storage, National climate action plan.	CO5/CO6
	Mode of examination	Theory based survey	

	Weightage Distribution	CA	MSE	ESE	
		25	25	50	

	Text book/s*	Textbook of Environmental Studies for Undergraduate Courses by Erach Bharucha, Pub: Orient Blackswan Pvt Ltd	
	Other References	Environmental Science by G. Tyler Miller, JR. and Scott E. Spoolman; Broks/Cole.	

Course Articulation Matrix

Cos	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PSO 1	PSO 2	PSO 3	PSO 4
CO1	3	3	2	1	3	1	1	3	3	2	2	2	1	1	-
CO2	3	3	2	1	3	1	1	3	3	2	2	2	1	1	-
CO3	3	3	2	1	3	1	1	3	3	2	2	2	1	1	-
CO4	3	3	2	1	3	1	1	3	3	2	2	2	1	1	-
CO5	3	3	2	1	3	1	1	3	3	2	2	2	1	1	-
CO6	3	3	2	1	3	1	1	3	3	2	2	2	1	1	-

1-Slight (Low) 2-Moderate (Medium) 3-Substantial (High)

School: SSHSS		**Batch: 2025-29**
Program: B.A./ B.A. (Hons)/ B.A. (Hons with Research)		**Current Academic Year: 2025-26**
Branch: Economics		**Semester: II**
1	Course Code	EOP1106
2	**Course Title**	**Statistical Methods for Economics (Practical)**
3	Credits	1
4	Contact Hours (L-T-P)	0-0-2
	Course Status	Core Practical
5	Course Description	This course provides a strong foundation in statistical tools and techniques essential for economic analysis. Student, will be able to learn how to collect, interpret, and analyse economic data using various statistical methods and its significance in policy formulation. By the end of the course, student would be able to apply statistical techniques to real-world economic problems, evaluate economic relationships, and make data-driven decisions.
6	Course Objective	The course aims to equip students with fundamental statistical skills for economic analysis. The course has the following objectives: 1. To define fundamental statistical concepts, describe data collection methods, and classify different types of data for economic analysis. 2. To apply descriptive statistical methods, including measures of central tendency and dispersion, for data interpretation and summarization. 3. To utilize correlation and regression techniques for analyzing economic data and drawing meaningful insights. 4. To explain probability theory concepts and demonstrate their applications in economic data analysis and decision-making.
7	Course Outcomes	On completion of this course the students will be able to: CO1: **Define** fundamental concepts of statistics, describe data collection methods, and classify different types of data. CO2: **Apply** descriptive statistical methods, including measures of central tendency and dispersion, to interpret data. CO3: **Utilize** correlation and regression techniques to analyze economic data and interpret the results. CO4: **Explain** probability theory concepts and demonstrate their application in economic data analysis. CO5: **Illustrate** the construction of index numbers, compare different types, and apply commonly used index formulas in statistics. CO6: **Describe** the NSO (National Statistical Office) approach to computing index numbers, including CPI and WPI, and interpret their significance.

8	Outline syllabus		**CO Mapping**
	Unit 1	**Introduction:**	
	A	Methods of Data Collection (Surveys, Sampling, Census) Practical Aspects to Discuss: • Live Survey Project: Students design and conduct a short survey (on campus or online) to collect primary data (e.g., student satisfaction with the cafeteria or online classes).	**CO1**
	B	Classroom Poll Activity: • Collect both qualitative (favorite subject, preferred learning style) and quantitative data (age, GPA, number of hours studied per day) from students to show the difference. Real-world examples: • Qualitative: Customer reviews, interview transcripts, brand perception.	**CO1**
	C	Real-Life Relevance of Sampling: Why do we sample? • Use real-world examples: • Political exit polls • Product testing (e.g., FSSAI food checks) • Opinion surveys (like Swiggy or Netflix user reviews) Quality control in factories Time & cost savings: • Show how sampling helps when population is too large (like testing customer satisfaction in a large retail chain)	**CO1**
	Unit 2	**Descriptive Statistics**	
	A	Practice Task for Students: Have students use MS Excel or Google Sheets to: • Enter a dataset • Apply built-in functions: • =AVERAGE(), =MEDIAN(), =MODE.SNGL() • Calculate geometric mean using =GEOMEAN() and harmonic mean using =HARMEAN()	**CO2**
	B	Practical Aspects : Dispersion Definition: Difference between the highest and lowest values. Real-life example:	**CO2**

		• Temperature variation in a week. • Price fluctuation of petrol/diesel in different cities. • Performance range in sports (e.g., fastest vs slowest lap time in F1). • Activity: • Collect daily temperatures for a week from 3 cities → Calculate range → Discuss which city is more stable.	
	C	Analyze Real Data • Use open datasets (like income, test scores, etc.) • Ask students to determine the direction of skewness and explain why it's skewed.	**CO2**
	Unit 3	**Simple correlation and regression**	
	A	Practical Aspects: Concept Application: • Estimation: Explain that the least-squares method minimizes the sum of squared differences between observed values and the values predicted by the regression line. Real-life Use: • Used in fields like finance (to predict stock prices), economics (for forecasting demand/supply), and natural sciences (for fitting experimental data).	**CO3**
	B	Standard Error of Estimate (SEE) Concept: It tells us how accurately a regression line predicts the actual data points. Practical Aspects to Teach: Interpretation: Show how SEE tells us the average error we make when predicting Y from X. Hands-on activity: • Give students a dataset (e.g., height vs. weight). • Fit a regression line and calculate predicted values. • Compute residuals and SEE.	**CO3**
	C	Multiple Linear Regression (MLR): Practical Aspects to Discuss: Using multiple predictors • Demonstrate how adding variables can improve	

		predictions (e.g., predicting salary using education level, experience, and job title). • Multicollinearity: Use correlation matrices or VIF (Variance Inflation Factor) to identify related predictors and why it's a problem.	
	Unit 4	**Elements of Probability**	
	A	Data-Based Projects: Help students connect probability to real-life data and decision-making: a. Weather Forecasting • Track local weather predictions vs actual results. • Discuss "What does a 70% chance of rain really mean?" b. Sports Statistics • Analyze win/loss ratios, player performance probabilities. • Example: "What's the probability Virat Kohli scores 50+ runs in a match?" c. Elections and Polling • Analyze exit poll results and probabilities of party wins.	**CO4**
	B	Bayes' Theorem Practical Exposure: Medical Testing (Highly Relevant) • Suppose 1% of people have a disease, and the test has 99% sensitivity and specificity. What's the probability someone actually has the disease if they test positive? Email Spam Filtering: • Show how Gmail or spam filters use Bayes' theorem to classify messages as spam based on keywords and sender. Hiring or Admission Probabilities: • Based on past records: "What is the probability a student gets placed given that they did an internship?"	**CO4**
	C	Sampling in Economic Research Practical Application: Survey Analysis: If 30% of a population is unemployed, and you randomly select 15 people, what's the probability exactly 5 are unemployed? • Opinion Polls: Estimating voting preferences in	**CO4**

		small samples.	
	Unit 5	**Index Numbers**	
	A	Purpose of Index Numbers Practical Aspects: Why do we need index numbers on Economic terms? • To measure inflation, cost of living, GDP deflators, and price trends. • To compare real income vs nominal income. • To study productivity, consumption, or wage changes over time.	**CO5**
	B	Practical Classroom Activities: • Use CPI data from 3–4 consecutive years and construct fixed-base and chain indices—compare trends. • Show how real income changes when using fixed-base vs chain methods. • Simulate economic shocks (e.g., fuel price hike) and observe how each index responds differently.	**CO6**
	C	Classroom Practical Activities: 1. Compare CPI vs WPI trends • Use data from mospi.gov.in and eaindustry.nic.in • Plot monthly CPI vs WPI to discuss: • Which is rising faster? What might be causing divergence? 2. Create a Mini CPI Basket • Students define a typical monthly expense list (food, phone, transport). • Assign base year prices vs current prices. • Calculate a personalized CPI using NSO's method.	**CO6**
	Mode of examination	Practical	
11	Weightage Distribution	CA / CE / Viva	
		30% / 30% / 40%	
	Readings Text book/s*	1. Gupta, S.C., & Kapoor, V.K. (2020). Fundamentals of Mathematical Statistics. Sultan Chand & Sons. 2. Yamane, Taro. (1973). Statistics: An Introductory Analysis. Harper & Row. 3. Freund, John E., & Perles, Benjamin M. (2018). Modern Elementary Statistics. Pearson. 4. Anderson, David R., et al. (2020). Statistics for Business and Economics. Cengage Learning.	

		5. Goon, A.M., et al. (2016). Fundamentals of Statistics. The World Press Pvt. Ltd. 6. Elhance, D.N. (2015). Fundamentals of Statistics. Kitab Mahal. 7. Das, N.G. (2018). Statistical Methods. McGraw Hill Education. 8. Gupta, S.P. (2021). Statistical Methods. Sultan Chand & Sons. 9. Jain, T.R., & Aggarwal, S.C. (2022). Statistics for Economics. VK Global Publications. 10. Freedman, D., Pisani, R., & Purves, R. (2007). Statistics (4th Ed.). W. W. Norton & Company.
	Other References	1. Moore, D.S., McCabe, G.P., & Craig, B.A. (2016). Introduction to the Practice of Statistics (9th Ed.). W. H. Freeman. 2. Newbold, P., Carlson, W.L., & Thorne, B. (2019). Statistics for Business and Economics (9th Ed.). Pearson. 3. Weiss, N.A. (2016). Introductory Statistics (10th Ed.). Pearson.

Course Articulation Matrix

POs / Cos	PO1	PO2	PO3	PO4	PO5	PO6	PSO1	PSO2	PSO3	PSO4
CO1	3	3	2	-	-	2	3	3	3	-
CO2	2	3	3	-	-	3	2	3	3	-
CO3	2	3	3	2	-	3	2	3	3	2
CO4	2	3	3	2	-	3	2	3	3	2
CO5	2	3	3	2	-	3	2	3	3	2
CO6	2	3	3	2	-	3	2	3	3	2

1-Low 2-Medium 3-High

School: SSHSS		**Batch: 2025-2029**	
Program: UG		**Current Academic Year: 2025-26**	
Branch: All		**Semester: II**	
	Course Code	**IKT1104**	
	Course Title	**Mulyapravah**	
	Credits	**2**	
	Contact Hours	**2-0-0**	
	Course Type	**Values Added Course (VAC)**	
	Course Owner	**SSHSS**	
	Course Objective	1. To help the student see the need for developing a holistic perspective of life. 2. To sensitize the student about the scope of life, individual, family (inter-personal relationship), society and nature/existence with a corporeal understanding. 3. To strengthen self-reflection about life and human values. 4. To develop more confidence in virtues and commitment to learn and live with them.	
	Course Outcomes	**CO1:** Understand and articulate India's cultural legacy and human values, recognizing their role in preserving traditions **CO2**: Apply principles of professional ethics to distinguish ethical actions in diverse societal contexts. **CO3**: Analyze the relationship between constitutional, universal values, and holistic education to foster integrated citizenship. **CO4**: Demonstrate how skills and values together support a successful career. **CO5:** Develop guidelines to promote human values and ethical conduct among stakeholders in organisations. **CO6**: Embrace a global citizenship mindset, fostering inclusivity and the spirit of *Vasudhaiva Kutumbakam*.	

	Course Description	Human Values and Ethics are the bedrock for the formation of individuals, organisations, and societies. They orient people, organisations, and societies towards growth and development. These are developed through lifelong reflection, experience, and the environment in which one learns and grows. This curriculum can bring theoretical and experiential learning among the students so that they will really understand human values and their applications in everyday life. Bringing learning to reality through the outdoor experience encourages the evolution of values, such as teamwork, responsibility, and love for nature. These experiences support classroom teaching and help see the practical applicability of those ethical principles taught in class. Pedagogy includes class room and extra class room settings like library, nature walk, Yoga & Meditation Hall, Visit to Community organisation etc. for better delivery of content and optimal impressions of values in our future world citizens.		
	Unit 1	**Introduction to Indian Culture and Civilisation**		
	A	• What is Bharatvarsha?	CO1	
	B	• Basics of Vedic Literature	CO1	
	C	• Role of Itihasa and Purana	CO1	
	Unit 2	**Human Values and Indian Ethics**		
	A	• Jainism: Five Mahavratas	CO2	
	B	• Buddhism: Panchsila	CO2	
	C	• Values (*Sanatan*), The Law of Karma & Nishkama Karma	CO2	
	Unit 3	**Constitutional Values and Global Citizenship**		
	A	• Values embedded in the Preamble of the Indian Constitution	CO3	
	B	• Sensibility and responsibility towards the global environment	CO3	
	C	• Understanding the Universal Human Values Loksangraha and Vasudhaiva Kutumbakam Concepts of □□□□□□ □□□□□□□□□□ & □□□□ □□□□□□□ □□□□□□ □□□□□□	CO3	
	Unit 4	**Values for Youth**		
	A	• Human Dignity, Rights, Duty & Responsibility	CO4	
	B	• Ethical Behaviour and Decision Making	CO4	

	C	• Value-led Virtuous Living	CO4	
	Unit 5	**Integrated Personality and Well-being**		
	A	• The four antah-karanas (inner instruments □□□□□□□), and Panch kosha □□□□□□□□□ (five sheaths	CO5	
	B	• Stress management: meditated personality and agitated personality (Manasa Vacha Karmana) □□□ □□□□ □□□□□□	CO5; CO6	
	C	• Physical, mental, social, and spiritual well-being	CO5; CO6	
	Mode of examination	Theory and Practical		
	Weightage Distribution	CA: 25% / MTE: 25% / ETE: 50%		
	ReadingsText book/s*	• Gaur, R. R., Sangal, R., & Bagaria, G. P. (2010). *A foundation course in human values and professional ethics*. • Bilimoria, P., Prabhu, J., & Sharma, R. (Eds.). (2007). *Indian ethics: Classical traditions and contemporary challenges* (Vol. 1). Ashgate. • Sharma, C. (1996). *A critical survey of Indian philosophy* (9th ed.). Motilal Banarsidass • Easwaran, E. (Trans.). (2007). *The Bhagavad Gita* (2nd ed.). Nilgiri Press. • Sharma, I. C. (1999). *Ethical philosophies of India* (2nd d.). HarperCollins Publishers India. • Keown, D. (2005). *Buddhist ethics: A very short introduction*. Oxford University Press. • **Sharma, B. K.** (2019). *Introduction to the Constitution of India* (8th ed.). Prentice-Hall of India.		

Course Articulation Matrix

POs / Cos	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3
CO1	3	2	3	3	1	3	1	1	1	3	1
CO2	3	3	2	3	3	2	1	1	2	1	3
CO3	2	3	2	3	2	1	1	2	3	2	3
CO4	1	2	3	2	3	2	2	1	3	2	3
CO5	2	3	2	2	2	3	2	2	2	2	2
CO6	3	1	2	1	2	3	1	3	1	2	2

1-Low **2-Medium** **3-High**

School: SSHSS		**Batch: 2025-29**	
Program: B.A./ B.A. (Hons)/ B.A. (Hons with Research)		**Current Academic Year: 2025-26**	
Branch: Economics		**Semester: II**	
1	Course Code	ARP102	
2	Course Title	Communicative English -2	
3	Credits	2	
4	Contact Hours (L-T-P)	0-0-4	
	Course Status	AEC	
5	Course Description	The course takes the learnings from the previous semester to an advanced level of language learning and self-comprehension through the introduction of audio-visual aids as language enablers. It also leads learners to an advanced level of writing, reading, listening and speaking abilities, while also reducing the usage of L1 to minimal in order to increase the employability chances.	
6	Course Objective	The course has the following objectives: 1. Analyze and interpret vision, goals, and strategies using audio-visual language texts to enhance comprehension and communication skills. 2. Apply creative writing techniques to simplify and present complex concepts effectively. 3. Improve pronunciation and develop a neutral accent through guided classroom sessions and consistent practice. 4. Demonstrate effective communication strategies to collaborate with diverse individuals and contribute to team success.	
7	Course Outcomes	After completion of this course, students will be able to: CO1: **Show** Vision, Goals and Strategies through Audio-visual Language Texts. CO2: **Demonstrate** complex concepts and present them in creative writing CO3: Develop MTI Reduction/Neutral Accent through Classroom Sessions & Practice. CO4: **Determine** their role in achieving team success through defining strategies for effective communication with different people. CO5: **Evaluate** their potentials as human beings and conduct themselves properly in the ways of world. CO6: **Estimate** satisfactory competency in use of Quantitative aptitude and Logical Reasoning.	
8	Outline syllabus		**CO Mapping**
	Unit 1	**Acquiring Vision, Goals and Strategies through Audio-visual Language Texts**	
	A	Pursuit of Happiness / Goal Setting & Value Proposition in life	CO1

	B	12 Angry Men / Ethics & Principles	**CO1**
	C	The King's Speech / Mission statement in life | strategies & Action Plans in Life	**CO1**
	Unit 2	**Creative Writing**	
	A	Story Reconstruction - Positive Thinking	CO2
	B	Theme based Story Writing - Positive attitude	**CO2**
	C	Learning Diary Learning Log – Self-introspection	**CO2**
	Unit 3	**Writing Skills 1**	
	A	Precis	CO2
	B	Paraphrasing	**CO2**
	C	Essays (Simple essays)	**CO2**
	Unit 4	**MTI Reduction/Neutral Accent through Classroom Sessions & Practice**	
	A	Vowel, Consonant, sound correction, speech sounds, Monothongs, Dipthongs and Tripthongs	**CO3**
	B	Vowel Sound drills , Consonant Sound drills, Affricates and Fricative Sounds	**CO3**
	C	Speech Sounds | Speech Music| Tone | Volume| Diction |Syntax |Intonation | Syllable Stress |	**CO3**
	Unit 5	**Gauging MTI Reduction Effectiveness through Free Speech**	
	A	Jam sessions	**CO3**
	B	Extempore	**CO3**
	C	Situation-based Role Play	**CO3**
	Unit 6	**Leadership and Management Skills**	
	A	Innovative Leadership and Design Thinking	**CO4**
	B	Ethics and Integrity	**CO4**
	Unit 7	**Universal Human Values**	
	A	Love & Compassion, Non-Violence & Truth	**CO5**
	B	Righteousness, Peace	**CO5**
	C	Service, Renunciation (Sacrifice)	**CO5**
	Unit 8	**Introduction to Quantitative aptitude & Logical Reasoning**	
	A	Analytical Reasoning & Puzzle Solving	**CO6**
	B	Number Systems and its Application in Solving Problems	**CO6**
	Mode of examination	Class Assignments/Free Speech Exercises / JAM Group Presentations/Problem Solving Scenarios/GD/Simulations (60% CA and 40% ETE	
11	Weightage	CA	ESE

	Distribution	60%	40%
	Readings/ Text Books	1. Wren, P.C.&Martin H. High English Grammar and Composition, S.Chand& Company Ltd, New Delhi. 2. Blum, M. Rosen. How to Build Better Vocabulary. London: Bloomsbury Publication 3. Comfort, Jeremy(et.al). Speaking Effectively. Cambridge University Press.	
	Other References	1. The Luncheon by W.Somerset Maugham - http://mistera.co.nf/files/sm_luncheon.pdf	

Cos	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
ARP102.1	-	-	-	-	-	-	-	-	1	3	1	2	-	-	-
ARP102.2	-	-	-	-	-	-	-	-	1	3	1	2	-	-	-
ARP102.3	-	-	-	-	-	-	-	-	1	3	1	2	-	-	-
ARP102.4	-	-	-	-	-	-	-	-	1	2	1	2	-	-	-
ARP102.5	-	-	-	-	-	-	-	-	1	2	1	2	-	-	-
ARP102.6	1	-	-	-	-	-	-	-	1	2	1	2	-	-	-

1-Low **2-Medium** **3-High**

School: SSHSS		**Batch: 2025-29**	
Program: B.A./ B.A. (Hons)/ B.A. (Hons with Research)		**Current Academic Year: 2025-26**	
Branch: -		**Semester: II**	
1	Course Code	AI8202	
2	Course Title	Application of AI in Economics	
3	Credits	3	
4	Contact Hours (L-T-P)	0-0-6	
	Course Status	Skill Enhancement Course (SEC)	
5	Course Description	This course explores the transformative impact of Artificial Intelligence (AI) on economic decision-making. Students will learn how AI is applied in various economic domains, including market trend analysis, financial services, public policy, trade, and industry. The course covers AI-driven business strategies, its role in automation, and the ethical considerations in AI-driven economies. Through real-world examples, students will gain insights into how AI enhances economic efficiency and sustainability.	
6	Course Objective	The course has following objectives: 1. To explain the role of AI in economic decision-making for businesses and government, highlighting its impact on efficiency and policy formulation. 2. To analyze AI-driven pricing strategies and consumer behavior modeling, demonstrating how AI enhances market predictions and business competitiveness. 3. To evaluate AI applications in banking, finance, and stock market predictions, assessing their effectiveness in risk management and investment decisions. 4. To examine AI's impact on trade, industry, and supply chain management, exploring its role in optimizing production, logistics, and global commerce.	
7	Course Outcomes	On completion of this course the learners will be able to: CO1: **Explain** how AI influences economic decision-making in businesses and government. CO2: **Analyse** AI-driven pricing strategies and consumer behavior modeling. CO3: **Evaluate** AI applications in banking, finance, and stock market predictions. CO4: **Assess** AI's role in taxation, economic forecasting, and policy-making. CO5: **Examine** AI's impact on trade, industry, and supply chain management. CO6: **Analyse** the future implications of AI in job automation, sustainability, and ethical concerns.	
8	Outline syllabus		**CO Mapping**
	Unit 1	**AI and Economic Decision-Making**	

	A	How AI Helps Businesses Make Smarter Decisions	**CO1**
	B	AI in Pricing Strategies (Dynamic Pricing Models)	**CO1**
	C	AI in Consumer Behavior Analysis	**CO1**
	Unit 2	**AI in Banking and Finance**	
	A	AI in Fraud Detection and Risk Management	**CO2**
	B	AI in Stock Market Predictions	**CO2**
	C	AI in Credit Scoring and Loan Approvals	**CO2**
	Unit 3	**AI in Government and Policy-Making**	
	A	AI in Taxation and Revenue Collection	**CO3**
	B	AI for Predicting Economic Crises	**CO3**
	C	AI in Public Budgeting and Resource Allocation	**CO3**
	Unit 4	**AI in Trade and Industry**	
	A	AI in Supply Chain and Logistics Optimization	**CO4**
	B	AI in Smart Manufacturing and Industry 4.0	**CO4**
	C	AI in International Trade and Market Forecasting	**CO4**
	Unit 5	**Future of AI in Economics**	
	A	AI's Role in Job Automation and the Future of Work	**CO5**
	B	AI in Sustainable Development and Green Economics	**CO5**
	C	Ethical and Legal Challenges of AI in Economics	**CO6**
	Mode of examination	Practical	

11	Weightage Distribution	CA	CE	Viva
		30%	30%	40%
	Readings/ Text Books	1. Artificial Intelligence and Economic Theory: Skynet in the Market- Nicolas Petit, Oxford University Press, 2020		
	Other References	1. Machine Learning and Data Science for Economics and Finance" – Abdulkadir Civan, Springer, 2021		

Course Articulation Matrix

POs Cos	PO1	PO2	PO3	PO4	PO5	PO6	PSO1	PSO2	PSO3	PSO4
CO1	3	2	2	3	-	2	3	3	2	2
CO2	3	2	2	3	-	2	3	3	2	3
CO3	3	3	3	3	-	3	3	3	3	3
CO4	3	3	3	3	-	3	3	3	3	3
CO5	3	3	3	3	-	3	3	3	3	3
CO6	3	3	3	3	-	3	3	3	3	3

1-Low 2-Medium 3-High

SEMESTER-III

Sr. No	Course Code	Course Name	L	T	P	Credits	Category
1	EOT2201	Principles of Microeconomics-II	4	0	0	4	CC
2	EOT2202	Economics of Finance	5	0	0	5	CC
3	EOT2203	Elementary Statistics for Economics	3	0	0	3	Minor
4	IKT2202	General Hindi	2	0	0	2	AEC
5	EOP2201	Principle of Microeconomics-II (Practical)	0	0	2	1	Core Practical
6	EOP2204	Hands-On Data Analysis with Software Applications in Economics	1	0	2	2	Multidisciplinary
7	AI8203	AI & Machine Learning for Economic Analysis	0	0	6	3	SEC
8	EOR2201	Research Based Learning-01	0	0	1	0	RBL
Semester 3 Credits: 20 Min : Max:							

School: SSHSS		**Batch : 2025-29**	
Program: B.A./ B.A. (Hons)/ B.A. (Hons with Research)		**Current Academic Year: 2025-26**	
Branch: Economics		**Semester: III**	
1	Course Code	EOT2201	
2	Course Title	Principles of Microeconomics-II	
3	Credits	4	
4	Contact Hours (L-T-P)	4-0-0	
	Course Status	Major-CC	
5	Course Description	The Course is designed for the student's pursuing graduation with Economics in regular mode. The programme aims to inculcate economic thinking among the students in economic decision making by comprehending economic theory	
6	Course Objective	The course is designed to: 1. To provide a sound training in microeconomic theory to formally analyze the behaviour of individual agents. 2. To provide mathematical tools are used to facilitate understanding of the basic concepts. 3. To equip students with the consumer, producer behaviour, and competitive firm. 4. To examine the conditions of general equilibrium, efficiency and welfare in society.	
7	Course Outcomes	After completion of the course, the students will be able to: CO1: **Explain** consumer and producer behavior analysis. CO2: **Interpret** producer's behavior and establishment of equilibrium. CO3: **Illustrate** market structures and **compare** perfect and imperfect markets. CO4: **Analyze** producer's behavior in oligopoly market conditions. CO5: **Determine** general equilibrium, economic efficiency, and welfare. CO6: **Apply** multi-person decision-making in an interactive setting.	
8	Outline syllabus		**CO Mapping**
	Unit 1	**Consumer Theory**	
	A	Theory of Consumer Behavior: Utility Analysis-Types of Utility Functions; Additive vs Separable, Homogenous vs Homothetic, Direct vs Indirect Utility Functions	**CO1**
	B	Consumer's Budget Constraint, Consumer's Equilibrium; Supply of Labour and income-leisure trade-off	**CO1**

	C	Consumer and Producer Surplus		**CO1**
	Unit 2	**Production Analysis**		
	A	Linear vs Non-Linear, Cobb-Douglas production function		**CO2**
	B	Producer's Equilibrium – Output maximization and cost minimization.		**CO2**
	C	Derivation of cost function from production function		**CO2**
	Unit 3	**Market Models**		
	A	Comparison between perfect and imperfect markets, Monopolistic Competition- Product Differentiation and demand curve		**CO3**
	B	Chamberlin Model: Concepts of industry and group, Equilibrium with entry of new firm, Equilibrium with price competition and free entry		**CO3**
	C	Oligopoly Markets: Features, Kinked Demand Curve hypothesis, Collusive and Non-Collusive, Cartels, Joint Profit Maximization and market sharing, Price Leadership		**CO3**
	Unit 4	**Consumer and Producer Theory in Action**		
	A	Externalities, marginal cost pricing, internalizing externalities, public goods; imperfect information: adverse selection, moral hazard, social choice, government inefficiency.		**CO4**
	B	Markets and Market Failure		**CO4**
	C	Market adjustment to changes in demand, efficiency of perfect competition; sources of market failure: imperfect markets, public goods, externalities, imperfect information		**CO5**
	Unit 5	**Game Theory**		
	A	Introduction to Game Theory Understanding Game Theory, Relevance of Game Theory in a Contemporary World		**CO5**
	B	Idea of a Rational Individual and Rational Choices, The Idea of Decision Making, Interacting Decision Makers		**CO6**
	C	Nash Equilibrium, Best Response Functions, Dominant Action/Strategy, Pure Strategy, Mixed Strategy, Mixed Strategy Nash Equilibrium, Games: Prisoner's Dilemma,		**CO6**
	Mode of examination	Theory		
11	Weightage Distribution	CA	MTE	ETE
		25%	25%	50%
	Readings/ Text Books	1. Ahuja, H.L. (2022). Advanced Economic Theory. S. Chand & Company, New Delhi. 2. Ahuja, H.L. (2020). Ucchatar Arthik Siddhant. S. Chand & Company, New Delhi. 3. Dwivedi, D.N. (2019). Microeconomics: Theory & Applications. Pearson, New Delhi. 4. Lipsey, Richard & Chrystal, Alec. (2016). Economics. Oxford University Press, New Delhi.		

		5. Pindyck, Robert S., Rubinfield, Daniel L., & Mehta, Prem L. (2015). Microeconomics. Pearson, New Delhi. 6. Salvatore, Dominic. (2014). Principles of Microeconomics. Oxford University Press, New Delhi.
	Other References	1. Samuelson, Paul A. & Nordhaus, William D. (2013). Economics. Tata McGraw Hill, New Delhi. 2. Koutsoyiannis, A. (2012) (2nd ed.). Modern Microeconomics. Macmillan, New Delhi. 3. Stonier, A.W. & Hague, Douglas C. (2011) (5th ed.). A Textbook of Economic Theory. Pearson, New Delhi.

Course Articulation Matrix

POs / Cos	PO1	PO2	PO3	PO4	PO5	PO6	PSO1	PSO2	PSO3	PSO4
CO1	3	-	-	2	-	-	3	3	-	1
CO2	3	-	-	2	-	-	3	3	-	1
CO3	3	-	-	3	-	2	3	3	-	2
CO4	2	-	-	3	-	3	3	3	-	3
CO5	3	-	-	3	-	3	3	3	-	3
CO6	2	-	-	3	-	3	3	3	-	3

1-Low) 2-Medium 3-High

School: SSHSS		**Batch: 2025-29**	
Program: B.A. (Hons)		**Current Academic Year: 2025-26**	
Branch: Economics		**Semester: III**	
1	Course Code	EOT2202	
2	Course Title	Economics of Finance	
3	Credits	5	
4	Contact Hours (L-T-P)	5-0-0	
	Course Status	Major-CC	
5	Course Description	Economics of Finance is a branch of economics that analyses the use and distribution of resources in markets. The course is to introduce students with fundamental of financial economics essential for the students of economics.	
6	Course Objectives	The objective of the course is following: 1. To describe the structure and functioning of financial markets, including money, capital, and foreign exchange markets. 2. To apply financial theories like Time Value of Money, NPV, and annuities to analyze financial decisions. 3. To interpret yield curves, the term structure of interest rates, and related financial concepts. 4. To assess the role of financial development, inclusion, and global institutions in economic growth and stability.	
7	Course Outcomes	The course will enable the students to: CO1: **Show** the structure and functioning of financial markets, including money, capital, and foreign exchange markets, along with financial instruments. CO2: **Apply** key financial theories such as the Time Value of Money, Annuity, Perpetuity, and Net Present Value (NPV) to analyze financial decisions. CO3: **Explain** the term structure of interest rates, interpret yield curves, and apply related financial theories. CO4: **Demonstrate** knowledge of investment theory, including cash flow streams, interest rate sensitivity, bond pricing, and portfolio evaluation techniques. CO5: **Assess** the relationship between the financial sector and economic growth, highlighting the role of financial development. CO6: **Examine** financial inclusion, access to finance, and the role of international financial institutions such as the WTO and IMF in global financial stability.	
8	Outline syllabus		**CO Mapping**
	Unit 1	**Introduction to Financial Markets**	
	A	Financial Institutions in India	**CO1**
	B	Financial Market: Money and Capital Market, Primary and Secondary Market, Derivative Market, and Foreign Exchange Market	**CO1**
	C	Financial Instruments (Assets): Deposits, Bonds, Share, Derivative Instruments	**CO1**
	Unit 2	**Theories of Financial System**	

	A	Time Value of Money: Present and Future Value		**CO2**
	B	Annuity and Perpetuity, Discount Rate (factor), Net Present Value (NPV)		**CO2**
	C	Leverage Ratio, Efficient Market Hypothesis, Modigliani-Miller Theorem.		**CO2**
	Unit 3	**Term Structure of Interest Rate and Theories**		
	A	Concept, Yield Curves and their Slopes		**CO3**
	B	Theories: The Expectation Theory, the Liquidity Premium Theory		**CO3**
	C	Market Segmentation Theory		**CO3**
	Unit 4	**Investment theory and portfolio analysis:**		
	A	deterministic cash flow streams, basic theory of interest, discounting and present value		**CO4**
	B	internal rate of return, evaluation criteria; fixed-income securities, bond prices and yields, interest rate sensitivity and duration, immunization,		**CO4**
	C	the term structure of interest rates, yield curves, spot rates and forward rates		**CO5**
	Unit 5	**International Finance and Institutions**		
	A	Nexus between Financial Sector and Economic Growth		**CO5**
	B	Access to Finance and Financial Inclusion		**CO6**
	C	Role of International organizations like WTO, IMF		**CO6**
	Mode of examination	Theory		
	Weightage Distribution	CA	MTE	ETE
		25%	25%	50%
	Readings/ Text Books	1. Bharti V. Pathak (2018). The Indian Financial System: Markets, Institutions, and Services. Pearson Education. 2. M.Y. Khan (2021). Indian Financial System. McGraw Hill Education. 3. Sundaram, K.P.M. & Datt, Ruddar (2020). Indian Economy. S. Chand Publishing. 4. Gurusamy, S. (2017). Financial Markets and Institutions. Tata McGraw Hill. 5. Machiraju, H.R. (2019). Indian Financial System. Vikas Publishing House. 6. Salvatore, D. (2016). International economics. – 12th ed. Wiley. ISBN: 978-1-118-95576-5		
	Other References	1. Anthony Saunders & Marcia Cornett (2019). Financial Markets and Institutions. McGraw-Hill Education. 2. Frank J. Fabozzi & Franco Modigliani (2013). Capital Markets: Institutions and Instruments. Pearson. 3. Jeff Madura (2021). Financial Institutions and Markets. Cengage Learning. 4. Peter Howells & Keith Bain (2007). Financial Markets and Institutions. Pearson Education.		

Course Articulation Matrix

POs / Cos	PO1	PO2	PO3	PO4	PO5	PO6	PSO1	PSO2	PSO3	PSO4
CO1	3	-	-	3	2	-	3	3	-	2
CO2	3	2	-	3	-	-	2	3	-	-
CO3	3	-	-	3	-	-	3	3	-	2
CO4	3	2	3	3	2	-	3	3	-	3
CO5	2	-	-	3	3	2	3	3	-	2
CO6	2	-	-	-	3	3	-	3	-	2

1-Low 2-Medium 3-High

School: SSHSS		**Batch : 2025-29**	
Program: B.A./ B.A. (Hons)/ B.A. (Hons with Research)		**Current Academic Year: 2025-26**	
Branch: Economics		**Semester: III**	
1	Course Code	EOT2203	
2	Course Title	Elementary Statistics for Economics	
3	Credits	3	
4	Contact Hours (L-T-P)	3-0-0	
	Course Status	Minor	
5	Course Description	This course provides an introduction to fundamental statistical methods used in economic analysis. It equips students with essential quantitative skills to analyze economic data, interpret results, and make informed decisions. By covering key statistical concepts, the course helps students understand how data-driven insights shape economic theories and policies.	
6	Course Objective	This course aims to provide knowledge to students so that they able to: 1. Define key statistical concepts, data types, and data collection methods relevant to economic analysis. 2. Apply descriptive statistics for interpreting economic data, summarizing trends, and understanding patterns in the data. 3. Make use of correlation techniques to analyze economic relationships, identifying connections between variables and assessing their strength. 4. Apply regression models for in-depth economic data analysis, predicting outcomes and assessing the impact of independent variables on dependent variables.	
7	Course Outcomes	On completion of this course the students will be able to: CO1: **Define** statistical concepts, data types, and collection methods. CO2: **Apply** descriptive statistics to interpret economic data. CO3: **Use** correlation techniques to analyze economic relationships. CO4: **Apply** regression models for economic data analysis. CO5: **Construct** and apply index numbers in economic analysis. CO6: **Explain** NSO methods for CPI and WPI and interpret their significance.	
8	Outline syllabus		**CO Mapping**
	Unit 1	**Introduction:**	
	A	Meaning, scope, and importance of statistics in economics	**CO1**
	B	Types of data: Primary vs. secondary, quantitative vs. qualitative	**CO1**
	C	Methods of data collection: Census and sampling techniques	**CO1**
	Unit 2	**Descriptive Statistics**	
	A	Definition and meaning of Central Tendency	**CO2**

	B	Measures of Central Tendency		**CO2**
	C	Measures of Dispersion		**CO2**
	Unit 3	**Correlation and its Measures**		
	A	Meaning and significance of correlation in economics		**CO3**
	B	Types of correlation: Positive, negative, and zero correlation		**CO3**
	C	Methods of measuring correlation: Karl Pearson's coefficient and Spearman's rank correlation		**CO3**
	Unit 4	**Regression Analysis**		
	A	Least square Criterion in regression analysis		**CO4**
	B	Simple linear regression- interpretation, and economic applications		**CO4**
	C	Multiple linear regression- interpretation, and economic applications		**CO4**
	Unit 5	**Index Number and its Measures**		
	A	Construction and uses of index numbers in economics		**CO5**
	B	Different Types of index numbers: Price index, quantity index, and value index		**CO5**
	C	Consumer Price Index (CPI) and Wholesale Price Index (WPI)		**CO6**
	Mode of examination	Theory		
11	Weightage Distribution	CA	MTE	ETE
		25%	25%	50%
	Readings/ Text Books	1. Gupta, S.P. (2020). Statistical Methods (45th ed.). Sultan Chand & Sons. 2. Gupta, C.B., & Gupta, V. (2021). An Introduction to Statistical Methods (23rd ed.). Vikas Publishing House. 3. Elhance, D.N., & Elhance, V. (2019). Fundamentals of Statistics (30th ed.). Kitab Mahal.		
	Other References	1. Goon, A.M., Gupta, M.K., & Dasgupta, B. (2018). Fundamentals of Statistics (9th ed.). World Press. 2. Hogg, R.V., McKean, J.W., & Craig, A.T. (2021). Introduction to Mathematical Statistics (8th ed.). Pearson.		

Course Articulation Matrix

POs / Cos	PO1	PO2	PO3	PO4	PO5	PO6	PSO1	PSO2	PSO3	PSO4
CO1	3	3	2	-	-	2	3	3	3	-
CO2	2	3	3	-	-	3	2	3	3	-
CO3	2	3	3	2	-	3	2	3	3	2
CO4	2	3	3	2	-	3	2	3	3	2
CO5	2	3	3	2	-	3	2	3	3	2
CO6	2	3	3	2	-	3	2	3	3	2

1-Low **2-Medium** **3-High**

School: SHSS		Batch: 2025-2029
Programme: BA/BA (Hons.) BA (Hons. with Research)		Current Academic Year: 2026-27
Branch:		Semester: III
1	Course Code	IKT2202
2	Course Title	General HINDI
3	Credits	2
4	Contact Hours(L- T-P)	2-0-0
	Course Type	VAC
5	Course Objective	यह हिंदी भाषा कोर्स विद्यार्थियों को हिंदी की शब्दावली, व्याकरण, पठन समझ, अनुच्छेद लेखन और पत्र लेखन में दक्ष बनाने के लिए डिज़ाइन किया गया है। इस कोर्स के माध्यम से विद्यार्थियों को हिंदी भाषा की मूल संरचनाओं और उनके सही उपयोग की समझ प्रदान की जाएगी। विद्यार्थियों को हिंदी के विभिन्न पहलुओं को जानने और अभ्यास करने का अवसर मिलेगा, ताकि वे भाषा में निपुणता प्राप्त कर सकें। इस कोर्स के दौरान शब्दावली के विस्तार, व्याकरण की सही समझ, लेखन कौशल को सुधारने के लिए व्यावहारिक गतिविधियाँ और अभ्यास कराया जाएगा।
6	Course Outcomes	CO1 हिंदी भाषा की शब्दावली का विस्तार करना और सही संदर्भ में उनके उपयोग की क्षमता विकसित करना। CO2 हिंदी व्याकरण के मूल नियमों को समझना और उनका सही तरीके से उपयोग करना। CO3 पठन समझ के कौशल को बढ़ाना और विभिन्न प्रकार की पाठ्य सामग्री को समझने में सक्षम बनाना। CO4 स्पष्ट और प्रभावी अनुच्छेद लेखन में महारत हासिल करना। CO5 विभिन्न प्रकार के पत्र लेखन, जैसे व्यक्तिगत, औपचारिक और आधिकारिक पत्र लेखन में दक्षता प्राप्त करना। CO6 विद्यार्थियों को हिंदी भाषा में संवाद और विचारों को सुसंगत और सुवोध तरीके से प्रस्तुत करने की क्षमता प्रदान करना।
7	Course Description	यह हिंदी भाषा कोर्स विद्यार्थियों को हिंदी शब्दावली, व्याकरण, पठन समझ, अनुच्छेद लेखन और पत्र लेखन में कुशल बनाने के लिए तैयार किया गया है। इस कोर्स में विद्यार्थियों को हिंदी भाषा की मूल संरचनाओं और उनके सही उपयोग का ज्ञान होगा। विद्यार्थियों को लेखन और पठन के विभिन्न कौशलों में सुधार करने का अवसर मिलेगा, जिससे वे भाषा में दक्षता प्राप्त कर सकेंगे। इस कोर्स के अंतर्गत विद्यार्थियों को हिंदी में प्रभावी और सटीक संवाद करने की क्षमता विकसित होगी। इसके अतिरिक्त, पाठ्यक्रम में हिंदी साहित्य की कविताएँ और कहानियाँ भी शामिल हैं, जो विद्यार्थियों को साहित्यिक दृष्टिकोण से हिंदी भाषा को समझने और आनंद लेने का अवसर प्रदान करेंगी।

8	Outline syllabus		CO Mapping
	Unit 1	**हिंदी भाषा, इसके लिपि और ध्वनियों का सामान्य परिचय**	
	A	**हिंदी भाषा का परिचय** • हिंदी का इतिहास और उत्पत्ति • भारत और विश्व में हिंदी का महत्व • हिंदी की विभिन्न बोलियाँ और रूप	CO1, CO2
	B	**हिंदी लिपि: देवनागरी** • देवनागरी लिपि का परिचय • स्वर (अ, आ, इ, ई, आदि) और व्यंजन (क, ख, ग, घ, आदि) • मूल वर्णों की लेखन अभ्यास	CO1, CO2
	C	**हिंदी की ध्वनियाँ** • ध्वनियों का उच्चारण और उनका रूप • मात्राओं का उच्चारण में भूमिका • हिंदी उच्चारण के सामान्य नियमों का परिचय	CO1, CO2

	Unit 2	**लिंग, वचन, कारक, उपसर्ग/प्रत्यय**	
	A	**हिंदी में लिंग (लिंग)** • पुल्लिंग और स्त्रीलिंग संज्ञाएँ • लिंग पहचानने के नियम • संज्ञा और विशेषणों में लिंग परिवर्तन	CO3, CO4, CO5
	B	**एकवचन और बहुवचन (एकवचन और बहुवचन)** • एकवचन और बहुवचन संज्ञाओं के निर्माण के नियम • असामान्य बहुवचन रूप • विशेषणों और उनके बहुवचन रूपों का प्रयोग	CO3, CO4, CO5
	C	**उपसर्ग, प्रत्यय और कारक** • उपसर्ग और प्रत्यय का परिचय • कारक (प्रथम, द्वितीय, तृतीय, आदि) और उनका प्रयोग • शब्द निर्माण और अर्थ में उपसर्ग तथा प्रत्यय का महत्व	CO3, CO4, CO5
	Unit 3	**मुहावरे, लोकोक्तियाँ और अपठित गद्यांश**	
	A	**मुहावरे** • सामान्य मुहावरों की व्याख्या • मुहावरों का वाक्य में प्रयोग • संदर्भ के अनुसार मुहावरों का उपयोग	CO4, CO5, CO6
	B	• हिंदी में लोकोक्ति का महत्व • सामान्य लोकोक्ति का अर्थ और उपयोग • लोकोक्तियों का जीवन में प्रासंगिकता	CO4, CO5, CO6
	C	**अपठित गद्यांश** • अपठित गद्यांश के अध्ययन का उद्देश्य • गद्यांश के मुख्य विचारों को सरल भाषा में व्यक्त करना • उदाहरण के रूप में गद्यांश और संबंधित प्रश्नों का अभ्यास	CO4, CO5, CO6
	Unit 4	**लेखन कौशल**	
	A	• वाक्य सुधारने का अभ्यास। • सरल वाक्यों का अनुवाद सीखना • अनुवाद कौशल में सुधार।	CO4, CO5, CO6
		अनुच्छेद लेखन • अनुच्छेद लेखन का परिचय: संरचना और उद्देश्य • अनुच्छेदों के प्रकार (वर्णनात्मक, कथात्मक, व्याख्यात्मक) • उदाहरणों के माध्यम से अभ्यास: स्पष्ट और संक्षिप्त अनुच्छेद लिखना	CO4, CO5, CO6

	C	**पत्र लेखन (औपचारिक और अनौपचारिक)** • औपचारिक पत्र लेखन का प्रारूप (जैसे छुट्टी के लिए आवेदन, शिकायत पत्र, आदि) • अनौपचारिक पत्र लेखन का प्रारूप (जैसे मित्र/परिवार को पत्र) • औपचारिक और अनौपचारिक पत्रों में अभ्यास		CO4, CO5, CO6
	Unit 5	**गद्य, पद्य और निबंध**		
	A	• गिल्लू - महादेवी वर्मा • ईदगाह - मुंशी प्रेमचंद		CO4, CO5, CO6
	B	• 'पुष्प की अभिलाषा' - माखनलाल चतुर्वेदी • बीती विभावरी जाग री - जयशंकर प्रसाद • मेरा नया बचपन - सुभद्रा कुमारी चौहान		CO4, CO5, CO6
	C	• जो देखकर भी नहीं देखते (जीवनी) • स्वतंत्रता की ओर		CO4, CO5, CO6
	Mode of examination	**Theory**		
	Weightage Dis-tribution	MTE	CA	ESE
		25%	25%	50%

	Text book/s*	Gillu https://www.nios.ac.in/media/documents/sechincour/Chapter-3.pdf Birbal ki Khichdi https://ncert.nic.in/textbook/pdf/chve106.pdf Daan ka Hisaab https://ncert.nic.in/textbook/pdf/dhhn107.pdf Swatantrata ki Or https://ncert.nic.in/textbook/pdf/dhhn109.pdf Jo Dekhkar bhi nahin Dekhte https://docs.aglasem.com/view/3c740b90-2192-11ea-b695-02f21f5619c4#google_vignette https://gitaganga.org/books/prerak-kahaniya

Course Articulation Matrix

POs / Cos	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3
CO1	2	3	1	1	1	2	2	2	1	3	2
CO2	3	3	2	2	1	2	1	1	2	3	2
CO3	3	3	3	2	2	2	1	3	2	3	1
CO4	1	3	1	3	2	1	1	2	2	3	3
CO5	2	3	2	3	2	2	1	3	3	3	2
CO6	2	2	2	1	1	3	3	3	1	2	2

1-Low **2-Medium** **3-High**

School: SSHSS		**Batch : 2025-29**	
Program: B.A./ B.A. (Hons)/ B.A. (Hons with Research)		**Current Academic Year: 2025-26**	
Branch: Economics		**Semester: III**	
1	Course Code	EOP2201	
2	Course Title	Principles of Microeconomics-II (Practical)	
3	Credits	1	
4	Contact Hours (L-T-P)	0-0-2	
	Course Status	Core Practical	
5	Course Description	The Course is designed for the student's pursuing graduation with Economics in regular mode. The programme aims to inculcate economic thinking among the students in economic decision making by comprehending economic theory	
6	Course Objective	The course is designed to: 1. To provide a sound training in microeconomic theory to formally analyze the behaviour of individual agents. 2. To provide mathematical tools are used to facilitate understanding of the basic concepts. 3. To equip students with the consumer, producer behaviour, and competitive firm. 4. To examine the conditions of general equilibrium, efficiency and welfare in society.	
7	Course Outcomes	After completion of the course, the students will be able to: CO1: **Explain** consumer and producer behavior analysis. CO2: **Interpret** producer's behavior and establishment of equilibrium. CO3: **Illustrate** market structures and **compare** perfect and imperfect markets. CO4: **Analyze** producer's behavior in oligopoly market conditions. CO5: **Determine** general equilibrium, economic efficiency, and welfare. CO6: **Apply** multi-person decision-making in an interactive setting.	
8	Outline syllabus		**CO Mapping**
	Unit 1	**Introduction:**	
	A	Meaning and scope of Microeconomics: Practical application of the concept of opportunity cost with help of an example. Case study: A family's monthly spending decisions	**CO1**
	B	Identify a commodity and show how quantity demanded of that commodity is inversely related with its price, shifts in demand versus movements along a demand curve	**CO1**

	C	Application of the concept of consumer surplus	**CO1**
	Unit 2	**Elasticity of Demand and Elasticity of Supply**	
	A	Case Study on Elasticity of Demand	**CO2**
	B	Measuring price elasticity of demand using percentage method, proportionate method, geometric method	**CO2**
	C	Measuring price elasticity of supply	**CO2**
	Unit 3	**Theory of Consumer Behavior**	**CO2**
	A	Understand the consumer behavior with the help of the concept of utility, Measure your own utility using food or entertainment choices	**CO3**
	B	Practical Application of indifference curve analysis and budget constraint in day-to-day life	**CO3**
	C	Derivation of Hicks and Slutsky Price effect using dataset	**CO3**
	Unit 4	**Production, Cost and Revenue**	
	A	Production Function: Derivation of production function, application of law of variable proportions.	**CO4**
	B	Cost Function: Derivation of cost function with given data	**CO4**
	C	Concepts of Revenue: Derivation of total, average and marginal revenue curves from the given dataset, Break even analysis and its uses.	**CO5**
	Unit 5	**Market Structures**	
	A	Perfect Competition: Identifying a product in a perfectly competitive market, characterstics	**CO5**
	B	Monopoly: Price Discrimination, Practical analysis of monopoly market structure by identifying an industry in a local area	**CO6**
	C	Monopolistic competition & Monopoly: Compare pricing strategies of street vendors vs branded stores	**CO6**
	Mode of examination	Practical	
11	Weightage Distribution	CA / CE / Viva	
		30% / 30% / 40%	
	Readings/ Text Books	1. Ahuja, H.L. (2022). Advanced Economic Theory. S. Chand & Company, New Delhi. 2. Ahuja, H.L. (2020). Ucchatar Arthik Siddhant. S. Chand & Company, New Delhi. 3. Dwivedi, D.N. (2019). Microeconomics: Theory & Applications. Pearson, New Delhi. 4. Lipsey, Richard & Chrystal, Alec. (2016). Economics. Oxford University Press, New Delhi. 5. Pindyck, Robert S., Rubinfield, Daniel L., & Mehta, Prem L. (2015). Microeconomics. Pearson, New Delhi. 6. Salvatore, Dominic. (2014). Principles of Microeconomics. Oxford University Press, New Delhi.	

	Other References	1. Samuelson, Paul A. & Nordhaus, William D. (2013). Economics. Tata McGraw Hill, New Delhi. 2. Koutsoyiannis, A. (2012) (2nd ed.). Modern Microeconomics. Macmillan, New Delhi. 3. Stonier, A.W. & Hague, Douglas C. (2011) (5th ed.). A Textbook of Economic Theory. Pearson, New Delhi.

Course Articulation Matrix

POs / Cos	PO1	PO2	PO3	PO4	PO5	PO6	PSO1	PSO2	PSO3	PSO4
CO1	3	-	-	2	-	-	3	3	-	1
CO2	3	-	-	2	-	-	3	3	-	1
CO3	3	-	-	3	-	2	3	3	-	2
CO4	2	-	-	3	-	3	3	3	-	3
CO5	3	-	-	3	-	3	3	3	-	3
CO6	2	-	-	3	-	3	3	3	-	3

1-Low 2-Medium 3-High

School: SSHSS		**Batch: 2025-29**	
Program: B.A./ B.A. (Hons)/ B.A. (Hons with Research)		**Current Academic Year: 2025-26**	
Branch: Economics		**Semester: III**	
1	Course Code	EOP2204	
2	Course Title	Hands-On Data Analysis with Software Applications in Economics	
3	Credits	2	
4	Contact Hours (L-T-P)	1-0-2	
	Course Status	Multidisciplinary	
5	Course Description	This course provides students with hands-on experience in using Microsoft Excel for data analysis. It covers essential functions for data entry, cleaning, and formatting, as well as statistical and logical operations. Students will learn how to create and customize visualizations, utilize Pivot Tables, and automate tasks using Macros. The course also integrates real-world applications to enhance business and research decision-making skills.	
6	Course Objective	The course has the following objectives: 1. Gain proficiency in data entry, formatting, and cleaning techniques in Excel. 2. Apply statistical and logical functions to analyze data. 3. Develop skills in creating and customizing data visualizations. 4. Utilize Pivot Tables and Pivot Charts for data summarization.	
7	Course Outcomes	On completion of this course the learners will be able to CO1: **Apply** Excel skills to construct and organize data through entry, formatting, and cleaning. CO2: **Utilize** statistical, logical, and text functions to solve data-related problems in Excel. CO3: **Create** and illustrate data visualizations using Excel charts and graphs. CO4: **Examine** and categorize data using Pivot Tables and Macros for advanced analysis. CO5: **Evaluate** and interpret financial and survey data using Excel-based techniques. CO6: **Compile** and present a data-driven report through Excel-based analysis.	
8	Outline syllabus		**CO Mapping**
	Unit 1	**Data Entry, Formatting, and Cleaning**	
	A	Excel Basics (Cells, Rows, Columns, Sheets)	**CO1**
	B	Data Entry and Formatting (Number Formatting, Text to Columns)	**CO1**

	C	Removing Duplicates and Handling Missing Data		**CO1**
	Unit 2	**Data Analysis Using Excel Functions**		
	A	Statistical Functions (AVERAGE, MEDIAN, MODE, STDEV)		**CO2**
	B	Logical and Lookup Functions (IF, VLOOKUP, HLOOKUP)		**CO2**
	C	Text Functions (CONCATENATE, LEFT, RIGHT, MID)		**CO2**
	Unit 3	**Data Visualization in Excel**		
	A	Creating Charts (Bar, Line, Pie, Scatter)		**CO3**
	B	Customizing Graphs (Legends, Labels, Titles)		**CO3**
	C	Advanced Visualizations (Histogram, Boxplot, Waterfall Chart)		**CO3**
	Unit 4	**Advanced Data Analysis with Pivot Tables & Macros**		
	A	Introduction to Pivot Tables and Pivot Charts		**CO4**
	B	Data Summarization and Grouping		**CO4**
	C	Using Slicers and Filters for Interactive Analysis		**CO4**
	Unit 5	**Real-World Applications and Case Studies**		
	A	Financial Data Analysis (Budgeting, Forecasting)		**CO5**
	B	Analyzing Survey Data in Excel		**CO5**
	C	**Preparing and Presenting a Small Report Based on Data Analysis Using Excel**		**CO6**
	Mode of examination	Practical		
11	Weightage Distribution	CA	CE	Viva
		30%	30%	40%
	Readings/ Text Books	1. Data Science for Business- Foster Provost & Tom Fawcett, O'Reilly Media, 2013 2. Data Management for Researchers- Kristin Briney, Pelagic Publishing, 2015 3. The Visual Display of Quantitative Information" – Edward R. Tufte, Graphics Press, 2001 4. Data Visualization: A Practical Introduction- Kieran Healy, Princeton University Press, 2018		
	Other References	1. Data Analysis with Excel- Conrad Carlberg, Que Publishing, 2017 2. Data Analysis with Microsoft Excel- Kenneth N. Berk & Patrick Carey, Cengage Learning, 2010 3. Microsoft Excel Data Analysis and Business Modeling- Wayne L. Winston, Microsoft Press, 2021		

Course Articulation Matrix

POs Cos	PO1	PO2	PO3	PO4	PO5	PO6	PSO1	PSO2	PSO3	PSO4
CO1	2	3	2	-	-	3	2	3	3	-
CO2	2	3	3	-	-	3	2	3	3	-
CO3	2	3	3	2	2	3	2	3	3	2
CO4	2	3	3	2	2	3	2	3	3	2
CO5	2	3	3	2	3	3	2	3	3	2
CO6	2	3	3	2	3	3	2	3	3	2

1-Low 2-Medium 3-High

School: SSHSS		**Batch: 2025-29**	
Program: B.A./ B.A. (Hons)/ B.A. (Hons with Research)		**Current Academic Year: 2025-26**	
Branch: Economics		**Semester: III**	
1	Course Code	AI8203	
2	Course Title	AI & Machine Learning for Economic Analysis	
3	Credits	3	
4	Contact Hours (L-T-P)	0-0-6	
	Course Status	Skill Enhancement Course (SEC)	
5	Course Description	This course introduces students to the application of Artificial Intelligence (AI) and Machine Learning (ML) in economic analysis. It covers key AI techniques for handling economic data, forecasting trends, and informing policy decisions. The course integrates real-world case studies and hands-on exercises using economic datasets, equipping students with skills to analyze, interpret, and apply AI-driven insights in economic research and decision-making.	
6	Course Objective	The course has the following objective: 1. Explain the role of AI & ML in modern economic analysis. 2. Learn AI-based techniques for economic data processing and forecasting. 3. Explore AI applications in financial markets, consumer behavior, and policy-making. 4. Analyze ethical, regulatory, and economic implications of AI adoption.	
7	Course Outcomes	On completion of this course the learners will be able to CO1: **Explain** AI and ML concepts and demonstrate their applications in economic modeling and decision-making. CO2: **Utilize** AI techniques to preprocess, clean, and forecast economic data trends. CO3: **Apply** AI methods to analyze financial markets, consumer behavior, and credit scoring. CO4: **Examine** the impact of AI on financial system and public policy. CO5: **Assess** the ethical, regulatory, and governance challenges of AI in economic sectors. CO6: **Predict** and discuss future trends, opportunities, and risks of AI in economics.	
8	Outline syllabus		**CO Mapping**
	Unit 1	**AI & ML Foundations in Economic Analysis**	
	A	Introduction to AI & ML: Definitions, History, and Economic Applications	**CO1**

	B	Supervised vs. Unsupervised Learning in Economic Data	**CO1**
	C	AI-driven Economic Modeling & Decision-Making	**CO1**
	Unit 2	**AI & Data Science in Economics**	
	A	Handling Economic Data: Preprocessing, Cleaning	**CO2**
	B	AI Techniques in Economic Forecasting (Regression, Time Series)	**CO2**
	C	AI for Predicting Market Trends	**CO2**
	Unit 3	**AI Applications in Financial & Market Economics**	
	A	AI in Financial Markets	**CO3**
	B	AI in Market Demand Prediction	**CO3**
	C	AI in Banking	**CO3**
	Unit 4	**AI & Policy-Making in Economics**	
	A	AI in Public Policy: Welfare Programs	**CO4**
	B	AI and & Smart Governance	**CO4**
	C	AI for Sustainable Development	**CO4**
	Unit 5	**Ethical, Regulatory, and Future Challenges of AI in Economics**	
	A	Bias & Fairness in AI-driven Economic Decision-Making	**CO5**
	B	Regulatory Challenges and AI Governance in Financial & Economic Sectors	**CO5**
	C	Future Trends in AI for Economics: Opportunities & Risks	**CO6**
	Mode of examination	Practical	
11	Weightage Distribution	CA / CE / Viva	
		30% / 30% / 40%	
	Readings/ Text Books	1. Data Science for Economics and Finance: Methodologies and Applications- Sergio Consoli, Diego Reforgiato Recupero & Milan Vukovic, Springer, 2021 2. Artificial Intelligence in Financial Markets: Cutting Edge Applications for Risk Management, Portfolio Optimization, and Economics- Christian L. Dunis, Peter W. Middleton, Andreas Karathanasopolous & Konstantinos Theofilatos, Palgrave Macmillan, 2016.	
	Other References	1. AI for Economics: A Hands-On Approach to Economic Analysis and Policy Modelling- Joshua Gans, MIT Press, 2023	

Course Articulation Matrix

POs Cos	PO1	PO2	PO3	PO4	PO5	PO6	PSO1	PSO2	PSO3	PSO4
CO1	3	2	3	2	-	3	3	2	-	2
CO2	2	3	3	-	-	3	2	3	3	-
CO3	2	3	3	2	2	3	2	3	3	2
CO4	2	3	3	3	2	3	2	3	3	3
CO5	2	2	3	3	3	3	2	3	3	3
CO6	2	2	3	3	3	3	2	3	3	3

1-Low **2-Medium** **3-High**

School: SSHSS		**Batch: 2025-29**
Program: B.A./ B.A. (Hons)/ B.A. (Hons with Research)		**Current Academic Year: 2025-26**
Branch: Economics		**Semester: III**
1	Course Code	EOR2201
2	Course Title	Research Based Learning-01
3	Credits	0
4	Contact Hours (L-T-P)	0-0-1
	Course Type	RBL (Audit Course)
5	Course Description	The course intends to impart knowledge of the basic concepts and components in Research Based Learning. The course content includes: • Publishing research paper and development of the product/process /case that the students work on during the semester to demonstrate identified problem through extensive literature. • Students work on the projects in teams with **three** students per team, and teams may form in interdisciplinary nature. • The deliverables for the projects include submission of reports on regular basis as per the rubrics. • The students also present their work at the end of the semester in the presence of external experts in the form of Written and oral communication components are intertwined with the project deliverables through required project reports and oral project presentations. • It is recommended that the all activities are to be record on regular basis and proper documents are to be maintained by students and faculty mentor. • The report should be prepared in the consultation of the faculty guide and the student should be in regular touch with the faculty guide to complete the work. • The content of the research report should be original and not copied from any other sources. To justify this, the student has to check the plagiarism of the report through Turnitin software. The plagiarism should be less than 10%. The plagiarism report has to be attached with in the research report at the end. • The student should submit the soft copy of the research report to the guide and after getting his/her approval and signature, the final report should be submitted. The report should be original and shall be submitted after checking for plagiarism. Please note the following guidelines for the preparation and submission of the report:

6	Course Objective	To develop the basic research skills and understanding the process of a research plan. The course objectives are following: 1. Explain the components of an RBL report, its purpose, and the steps involved in its formulation. 2. Demonstrate ethical research practices, APA citation style, and proper referencing in research. 3. Assess the significance, need, and objectives of the chosen study or research field. 4. Construct review literature to identify research gaps and formulate a clear research problem. 5. Propose the research topic, submit a brief report, and provide a plagiarism report.	
7	Course Outcomes	After completion of the course, the students will be able to: CO1: **Explain** the concepts, components, and purpose of Research-Based Learning (RBL) and outline the steps involved in preparing an RBL report. CO2: **Interpret** ethical research practices, analyze (K4) plagiarism and its consequences, and apply citation and referencing techniques using MS Word. CO3: **Identify** the significance, purpose, and necessity of a research field and classify different aspects of a study area. CO4: **Examine** research papers through a literature review, distinguish research gaps, and categorize relevant findings. CO5: **Formulate** a clear research problem based on identified gaps and propose a suitable research topic. CO6: **Compile** a brief research report, justify the chosen research topic, and assess plagiarism compliance with ethical standards.	
8	Outline syllabus		**CO Mapping**
	Unit 1	**Introduction to Research Based Learning**	
	A	Understanding the concepts and components involved in the preparation of RBL report;	**CO1**
	B	Purpose and outcome of RBL	**CO1**
	C	Steps involved in formulation of RBL report	**CO1**
	Unit-2	**Introduction to Ethical Research, Citations and Referencing**	
	A	Ethical Research, AI similarity & Plagiarism and its consequences	**CO2**
	B	Citation Styles and its types	**CO2**
	C	Referencing in Research on MS-word	**CO2**
	Unit 3	**Identification of the Study Area**	
	A	Significance of the Study or Research Field	**CO3**
	B	Purpose of the Study or Research Field	**CO3**
	C	Need of the Study or Research Field	**CO3**
	Unit 4	**Identification of the Research Gap**	
	A	Review of Research Paper/Literature survey (Min 15 papers)	**CO4**
	B	Finding the research gap	**CO4**

	C	Statement of research problem			**CO5**
	Unit 5	**Finalization of the Topic & Submission of Brief**			
	A	Finalization of the topic.			**CO5**
	B	Submission of a brief report based on the Unit 1 to Unit 3.			**CO6**
	C	Submission of plagiarism report of submitted brief. (less than 10%)			**CO6**
	Mode of examination	Practical			
	Weightage Distribution	CA	CE	Viva	
		30%	30%	40%	
	Text book/s*	1. Shaughnessy, J. J., Zechmeister, E. B. & Zechmeister, J. (2012). Research methods in psychology. (9th ed.) NY: McGraw Hill.			
	Other References	1. Acharyya, R. (Ed.), Bhattacharya, N. (Ed.). (2020). Research Methodology for Social Sciences. London: Routledge India, https://doi.org/10.4324/9780367810344 2. R. KUMAR, Research Methodology: A Step By Step Guide For Beginners, Pearson 3. P.N. Mukherjee, Methodology in social research, Sage publication, New Delhi 4. V.K.Srivastav, Methodology and Field- work, Oxford University Press New Delhi 5. R.N. Trivedi & D P Shukla, Research Methodology, college book depot, Jaipur.			

COURSE ARTICULATION MATRIX

POs COs	PO1	PO2	PO3	PO4	PO5	PO6	PSO1	PSO2	PSO3	PSO4
CO1	3	-	3	2	3	3	2	2	-	2
CO2	-	2	3	-	3	3	-	2	3	-
CO3	2	-	3	2	3	3	2	3	3	-
CO4	2	-	3	3	3	3	3	3	3	2
CO5	2	-	3	3	3	3	3	3	3	2
CO6	2	-	3	3	3	3	3	3	3	2

1-Low 2-Medium 3-High

SEMSESTER-IV

Sr. No	Course Code	Course Name	L	T	P	Credits	Category
1	EOT2205	Principles of Macroeconomics-II	4	0	0	4	CC
2	EOT2206	Mathematical Economics	4	0	0	4	CC
3	EOT2207	Economic Thought: A Historical Perspective	4	0	0	4	CC
4	EOT2208	Economics of Health & Education	3	0	0	3	Minor Elective
5	EOP2206	Mathematical Economics (Practical)	0	0	4	2	Core Practical
6	CCU701	Community Connect	0	0	4	2	AEC
7	EOR2202	Research Based Learning-02	0	0	2	1	RBL
Semester 4 Credits: 20 Min : Max:							

School: SSHSS		**Batch : 2025-29**	
Program: B.A./ B.A. (Hons)/ B.A. (Hons with Research)		**Current Academic Year: 2025-26**	
Branch: Economics		**Semester: IV**	
1	Course Code	EOT2205	
2	Course Title	Principles of Macroeconomics-II	
3	Credits	4	
4	Contact Hours (L-T-P)	4-0-0	
5	Course Status	Major- CC	
6	Course Description	The Course is designed for the student's pursuing graduation with economics in regular mode. The programme aims to inculcate economic thinking among the students in economic decision making by comprehending economic theory.	
7	Course Objectives	This course aims to develop students' understanding of key macroeconomic concepts. The course has the following objective: 1. Explain the IS-LM model, derive the IS and LM curves, and analyze the impact of fiscal and monetary policies on the economy. 2. Identify different types of unemployment, understand labor market equilibrium, and evaluate policies for addressing cyclical unemployment. 3. Discuss inflation, its social costs, the Phillips curve, and apply both adaptive and rational expectations theory. 4. Explain the determinants of money supply, money market equilibrium, and analyze interest rate theories and monetary policies.	
8	Course Outcomes	On completion of this course the students will be able to CO1: **Explain** money supply determinants, money market equilibrium, and analyze interest rate theories and monetary policies. CO2: **Explain** the IS-LM model, derive the IS and LM curves, and analyze the effects of fiscal and monetary policies. CO3: **Identify** different types of unemployment, explain labour market equilibrium, and evaluate policies addressing cyclical unemployment. CO4: **Elaborate** inflation, its social costs, the Phillips curve, and apply adaptive and rational expectations theory. CO5: **Evaluate** the balance of payments, identify causes of disequilibrium, and suggest corrective measures. CO6: **Analyse** the foreign exchange market, effects of exchange rate changes, and apply the Mundell-Fleming model to open economy issues.	
9	Outline syllabus		CO Mapping
	Unit 1	**Money & Interest Rate Determination**	
	A	Functions of money, credit creation, deposit & credit multiplier, Role of monetary policy in developing economy	**CO1**

	B	Supply of money and its determinants, money multiplier, Friedman quantity theory of money.	**CO1**
	C	Fishers's transaction, Cash-balance, Keynes theory of demand for money.	**CO1**
	Unit 2	**IS-LM Model**	
	A	Goods Market Equilibrium, Derivation of the IS Curve, Shift in the IS Curve.	**CO2**
	B	Money Market Equilibrium, Derivation of the LM Curve, shift in LM Curve.	**CO2**
	C	Intersection of the IS and LM Curves, IS-LM Curve Model-Explaining Role of Fiscal and Monetary Policies, Critique of IS-LM Curves Model.	**CO2**
	Unit 3	**Unemployment**	
	A	Meaning, Types of Unemployment: Frictional Unemployment; Structural Unemployment; Cyclical Unemployment.	**CO3**
	B	Cyclical Unemployment and Labour Market Equilibrium, Concept of Full Employment.	**CO3**
	C	Wage-Price Flexibility and Employment-Keynes's View of Involuntary Unemployment, Wage Cut and Employment-Classical View, Anti-Recessionary Policy to Remove Cyclical Unemployment.	**CO3**
	Unit 4	**Inflation and Expectations**	
	A	Inflation and its social costs, consequences of inflation, types of inflation, cost of inflation.	**CO4**
	B	Phillips curve; adaptive and rational expectations.	**CO4**
	C	Sacrifice ratio and policy of disinflation.	**CO4**
	Unit 5	**The Open Economy**	
	A	Balance of payments, Equilibrium in the Balance of Payments, Causes of Disequilibrium in the Balance of Payments, Corrective measures.	**CO5**
	B	Foreign Exchange Market, Effects of Changes in Exchange Rate (Depreciation or Devaluation) on the Economy, J-Curve Concept, Fixed Exchange Rate and Flexible Exchange Rates, Currency Convertibility	**CO6**
	C	Mundell-Fleming model	**CO6**
10	Mode of examination	Theory	
11	Weightage Distribution	CA: 25% / MTE: 25% / ETE: 50%	
12	Readings/ Text Books	**1.** Dornbusch, R., Fischer, S., & Startz, R. (2018). Macroeconomics (13th ed.). McGraw-Hill Education. **2.** Hansen, A. H. (1953). A Guide to Keynes (1st ed.). McGraw-Hill. **3.** Shapiro, E. (2005). Macroeconomic Analysis (5th ed.). Galgotia Publications, New Delhi. **4.** Sikdar, S. (2011). Principles of Macroeconomics (2nd ed.). Oxford University Press, New Delhi. **5.** Ahuja, H. L. (2022). Macroeconomics: Theory and Policy (21st ed.). S. Chand Publishing, New Delhi.	
	Other	**1.** Ackley, G. (1978). Macroeconomics: Theory and Policy (1st ed.).	

	References	Macmillan Publishing, New York. **2.** Branson, W. A. (2005). Macroeconomic Theory and Policy (3rd ed.). Harper & Row.

Course Articulation Matrix

POs / Cos	PO1	PO2	PO3	PO4	PO5	PO6	PSO1	PSO2	PSO3	PSO4
CO1	3	-	3	3	2	3	3	3	-	3
CO2	3	-	3	2	-	3	3	3	-	3
CO3	3	-	3	2	-	3	3	3	-	3
CO4	3	-	3	3	-	3	3	3	-	3
CO5	3	-	3	3	-	3	3	3	-	3
CO6	3	-	3	3	-	3	3	3	-	3

1-Low **2-Medium** **3-High**

School: SSHSS		**Batch: 2025-29**	
Program: B.A. (Hons)		**Current Academic Year: 2025-26**	
Branch: Economics		**Semester: IV**	
1	Course Code	EOT2206	
2	Course Title	**Mathematical Economics**	
3	Credits	4	
4	Contact Hours (L-T-P)	4-0-0	
	Course Status	Major-CC	
5	Course Description	**Mathematical Economics** introduces undergraduate students to the fundamental mathematical concepts used in economic analysis. This course introduces fundamental mathematical techniques essential for economic analysis. It covers set theory, matrix operations, single and multivariable differentiation, differential equations, and integration. Students will learn to apply these concepts to solve economic problems, including optimization, economic modeling, and surplus analysis.	
6	Course Objective	The course has the following objectives: 1. Explain fundamental concepts of mathematics and set theory in economic analysis. 2. Solve economic problems using matrix operations and Cramer's rule. 3. Interpret economic functions through differentiation and their real-world applications. 4. Examine the use of partial derivatives, optimization techniques, and integration in economic modeling.	
7	Course Outcomes	On completion of this course the learners will be able to CO1: **Understand** the fundamentals of mathematical economics, mathematical modeling, and set theory for economic analysis. CO2: **Make use of** matrix operations, determinants, and Cramer's Rule to solve economic and mathematical problems. CO3: **Utilize** differentiation techniques for single-variable functions and apply them to economic contexts. CO4: **Analyse** functions of multiple variables, apply optimization techniques, and solve differential equations relevant to economic models. CO5: **Interpret** integration techniques, including definite integrals, for mathematical and economic problem-solving. CO6: **Apply** integration methods to economic analysis, including consumer surplus, producer surplus, and marginal functions.	
8	Outline syllabus		**CO Mapping**
	Unit 1	**Basics of mathematics and set theory**	
	A	Nature of Mathematical Economics and its applications in Economic Analysis	**CO1**
	B	Mathematical Model: Variables, Constants, Parameters, Equations and Identities	**CO1**

	C	Sets: Set notation, operations, Finite and Infinite Sets, Laws of Set Operations	**CO1**
	Unit 2	**Matrix and Determinants**	
	A	Matrices: Matrix Operations- Addition and Subtraction, Matrix Multiplication, Commutative, Associative, Distributive Laws-Transpose - Inverse Matrix	**CO2**
	B	Determinants: Properties, Rank of Matrix, Minor, Co-factor	**CO2**
	C	Cramer's Rule and its Applications in Economics	**CO2**
	Unit 3	**Differentiations – Single Variable Function**	
	A	Continuity and Differentiability of a Function	**CO3**
	B	Rules of Differentiation of a Function, Constant Functions, Linear, Power, Sums and Differences of Functions, Product of Functions, Quotient of Functions, Chain Rule, Exponential and Logarithmic Functions	**CO3**
	C	Applications in Economics	
	Unit 4	**Differentiations – Functions of two or more variables**	
	A	Functions of Two or More Variables – Partial Derivatives, Higher Order Partial Derivatives, the Chain Rule and Total Derivatives-	**CO4**
	B	Maxima and Minima – One and Two Variables-	**CO4**
	C	Differential Equations- First Order Linear, Differential Equations- Nonlinear First Order, Differential Equations- Second, Order Linear Differential Equations	**CO4**
	Unit 5	**Integration**	
	A	Concept of Integration -Rules of Integration	**CO5**
	B	Integration by parts and Definite Integrals – Area and Summation	**CO5**
	C	Applications Integrations in Economic Analysis- Consumers Surplus, Producers Surplus and marginal finctions.	**CO6**
	Mode of examination	Theory	
11	Weightage Distribution	CA / MTE / ETE	
		25% / 25% / 50%	
	Readings/ Text Books	1. Mehta, B.C. & Madnani, G.M.K. (2017). Mathematics for Economists. Sultan Chand & Sons, New Delhi. 2. Yamane, Taro. (2014). Mathematics for Economists: An Elementary Survey. Prentice Hall India Learning. 3. Chiang, A.C. & Wainwright, K. (2017). Fundamental Methods of Mathematical Economics. McGraw-Hill Education India.	
	Other References	1. Sydsaeter, K., Hammond, P., & Strom, A. (2012). Essential Mathematics for Economic Analysis. Pearson India.	

		2. Gupta, S.P. (2014). Statistical Methods. Sultan Chand & Sons, New Delhi. 3. Sydsaeter, K., Hammond, P., Seierstad, A., & Strom, A. (2012). Further Mathematics for Economic Analysis. Pearson Education, UK. 4. Simon, C.P. & Blume, L. (1994). Mathematics for Economists. W.W. Norton & Company, USA. 5. Silberberg, E. & Suen, W. (2001). The Structure of Economics: A Mathematical Analysis. McGraw-Hill Higher Education, USA. 6. Hoy, M., Livernois, J., McKenna, C., Rees, R., & Stengos, T. (2011). Mathematics for Economics. MIT Press, USA.

Course Articulation Matrix

POs / Cos	PO1	PO2	PO3	PO4	PO5	PO6	PSO1	PSO2	PSO3	PSO4
CO1	3	2	-	1	-	1	3	3	-	1
CO2	2	3	2	-	-	1	2	3	3	-
CO3	3	-	2	2	-	-	3	3	2	1
CO4	3	2	3	3	2	-	3	3	3	-
CO5	-	3	-	2	3	2	2	3	-	2
CO6	2	3	-	-	3	3	-	3	3	2

1-Low 2-Medium 3-High

School: SSHSS		**Batch : 2025-29**	
Program: B.A./ B.A. (Hons)/ B.A. (Hons with Research)		**Current Academic Year: 2025-26**	
Branch: Economics		**Semester: IV**	
1	Course Code	EOT2207	
2	Course Title	Economic Thought: A Historical Perspective	
3	Credits	4	
4	Contact Hours (L-T-P)	4-0-0	
	Course Status	Major-CC	
5	Course Description	Economic Thought: A Historical Perspective course offers an in-depth exploration of the development of economic ideas from ancient to modern times, with a special emphasis on the evolution of economic thought in India. Students will study the contributions of major economic thinkers, from classical economists like Adam Smith to modern economists such as John Maynard Keynes and Amartya Sen. The course covers key economic theories, schools of thought, and their implications for contemporary economic policies and practices. It also examines how economic thought has evolved in the context of historical events, social changes, and global challenges.	
6	Course Objective	The course has the following objectives: 1. Explore the evolution of economic thought from ancient and classical ideas to modern economic theories. 2. Examine key contributions from classical, marginalist, and neoclassical economists, and analyze critiques from Marxist, Austrian, and Keynesian perspectives. 3. Analyze the development and impact of economic ideas through the lens of Indian economic thought, from ancient philosophies to post-independence models. 4. Provide students with a comprehensive understanding of the historical development and influence of various economic theories and schools of thought.	
7	Course Outcomes	On completion of this course the learners will be able to CO1: **Explain** ancient, medieval, and mercantilist economic thought and assess their influence on early economic policies. CO2: **Interpret** classical economic theories of Adam Smith, David Ricardo, and John Stuart Mill, and analyze their impact on value, trade, and distribution. CO3: **Illustrate** the marginalist revolution, evaluate Marshall's neoclassical synthesis, and examine welfare and distribution theories. CO4: **Analyze** critiques of capitalism by Marx, explore Austrian school perspectives, and assess Keynesian economic policies. CO5: **Elaborate** ancient and medieval Indian economic thought, evaluate colonial economic theories, and examine post-independence economic models.	
8	Outline syllabus		
	Unit 1	**Foundations of Economic Thought (Pre-Classical Period)**	
	A	Ancient Economic Thought: Economic Ideas in Ancient Greece (Plato, Aristotle); Roman Contributions to Economics (Cicero, Seneca); Economic Thought in Ancient India (Kautilya's	**CO1**

		Arthashastra)	
	B	Medieval Economic Thought: Scholastic Economics (St. Thomas Aquinas, Scholastics); Economic Views in the Middle Ages; The Role of Religion in Medieval Economics	**CO1**
	C	Early Economic Ideas and Mercantilism: Mercantilist Thought and Policy (Jean Bodin, Thomas Mun), Colonialism and Mercantilism, Economic Nationalism and Wealth of Nations	**CO1**
	Unit 2	**Classical Economics (18th and 19th Centuries)**	
	A	Adam Smith and the Birth of Classical Economics: *The Wealth of Nations* and the Invisible Hand, The Division of Labor and Its Economic Implications, The Classical View on Value and Distribution	**CO2**
	B	David Ricardo and Comparative Advantage: The Theory of Comparative Advantage, The Labor Theory of Value, The Ricardian Model of International Trade	**CO2**
	C	John Stuart Mill and the Evolution of Classical Thought: Mill's Views on Economic Growth and Distribution, The Intersection of Classical Economics and Social Philosophy, Mill's Influence on Modern Economic Theory	**CO2**
	Unit 3	**The Marginalist Revolution and Neoclassical Economics**	
	A	The Marginal Revolution: The Role of Jevons, Menger, and Walras in Shaping Modern Economics, The Concept of Marginal Utility and Its Implications, The Emergence of the Marginalist Approach	**CO3**
	B	Alfred Marshall and the Neoclassical Synthesis: The Development of Microeconomic Theory, Marshall's Contribution to Supply and Demand Analysis, The Concept of Elasticity and Consumer Surplus	**CO3**
	C	Theories of Distribution and Welfare Economics: The Marginal Productivity Theory of Distribution, Pareto Efficiency and Welfare Economics, Criticisms of Neoclassical Economics	**CO2**
	Unit 4	**Critiques and Alternative Theories (Late 19th and 20th Centuries)**	
	A	Karl Marx and Marxist Economics: Historical Materialism and the Theory of Value, The Labor Theory of Value and Exploitation, Marx's Critique of Capitalism and the Idea of Revolution	**CO4**
	B	The Austrian School of Economics: Contributions of Ludwig von Mises and Friedrich Hayek, The Austrian Theory of Capital and Business Cycles, Criticism of Central Planning and the Socialist Calculation Debate	**CO4**
	C	The Keynesian Revolution: John Maynard Keynes and *The General Theory*, The Concept of Effective Demand and Its Impact on Economic Policy, The Role of Government in Stabilizing the Economy	**CO4**
	Unit 5	**Economic Thought in India**	
	A	Ancient and Medieval Economic Thought in India: Kautilya's *Arthashastra* and Ancient Indian Economic Philosophy, The Role of Trade and Commerce in Ancient India, Medieval Economic Thought: The Influence of Islamic Economics	**CO5**
	B	Economic Thought During British Colonialism: Economic Impact of British Rule on Indian Economy, Theories of Colonial Exploitation: Dadabhai Naoroji and Economic Drain Theory, Economic Nationalism in India (Raja Rammohun Roy, Bipin Chandra Pal)	**CO5**

	C	Post-Independence Indian Economic Thought: The Nehruvian Economic Model and Planning, Contributions of Indian Economists (Amartya Sen, Jagdish Bhagwati), Critiques of Indian Economic Policies and the Economic Reforms of the 1990s		**CO6**
	Mode of examination	Theory		
11	Weightage Distribution	CA	MTE	ETE
		25%	25%	50%
	Readings/ Text Books	1. Schumpeter, Joseph A. (1954): History of Economic Analysis, Oxford University Press. 2. Blaug, Mark (1997): Economic Theory in Retrospect, Cambridge University Press. 3. Ekelund, Robert B. & Robert F. Hébert (2007): A History of Economic Theory and Method, Waveland Press. 4. Screpanti, Ernesto & Stefano Zamagni (2005): An Outline of the History of Economic Thought, Oxford University Press. 5. Backhouse, Roger E. (2002): The Penguin History of Economics, Penguin Books. 6. Heilbroner, Robert L. (1999): The Worldly Philosophers: The Lives, Times, and Ideas of the Great Economic Thinkers, Simon & Schuster. 7. Hawkins, Richard H. (2004): History of Economic Thought: A Critical Perspective, McGraw-Hill Education.		
	Other References	1. Mandel, Ernest (1995): An Introduction to Marxist Economic Theory, Pathfinder Press. 2. Chattopadhyay, Subhasis (2015): History of Economic Thought in India, Oxford University Press. 3. Sen, Amartya (1999): Development as Freedom, Oxford University Press.		

Course Articulation Matrix

POs / Cos	PO1	PO2	PO3	PO4	PO5	PO6	PSO1	PSO2	PSO3	PSO4
CO1	3	-	2	2	3	-	3	2	-	2
CO2	3	-	3	3	3	-	3	3	-	3
CO3	3	-	3	3	2	-	3	3	-	3
CO4	3	-	3	3	2	-	3	3	-	3
CO5	3	-	3	3	3	-	3	3	-	3
CO1	3	-	2	2	3	-	3	2	-	2

1-Low **2-Medium** **3-High**

School: SSHSS		**Batch : 2025-29**	
Program: B.A./ B.A. (Hons)/ B.A. (Hons with Research)		**Current Academic Year: 2025-26**	
Branch: Economics		**Semester: IV**	
1	Course Code	EOT2208	
2	Course Title	**Economics of Health and Education**	
3	Credits	3	
4	Contact Hours (L-T-P)	3-0-0	
	Course Status	Minor	
5	Course Description	Economics of Health and Education will introduce students to the microeconomic foundations of health and education as economic goods. This course will lay emphasis on theory and practice.	
6	Course Objective	The course has the following objectives: 1. Explain core concepts, market failures, and the dynamics of demand and supply in health and education economics. 2. Demonstrate economic theories, policies, and financing models in the healthcare and education sectors. 3. Apply human capital theory to assess the role of education in economic development and income equality. 4. Examine the structure, policies, and challenges of the health and education systems in India.	
7	Course Outcomes	On completion of this course the learners will be able to CO1: **Explain** core concepts, market failures, and the demand-supply dynamics in health and education economics. CO2: **Demonstrate** the economic theories, policies, and financing models in healthcare and education sectors. CO3: **Apply** human capital theory and assess the role of education in economic development and income equality. CO4: **Examine** the structure, policies, and challenges of the health and education systems in India. CO5: **Analyse** the link between health, education, and economic growth, focusing on productivity and poverty reduction. CO6: **Evaluate** the reciprocal impact of health and education on each other and their influence on social mobility.	
8	Outline syllabus		
	Unit 1	**Introduction to Economics of Health and Education**	
	A	Basic Concepts in Health and Education Economics: Definition and scope of health economics and education economics; Measure of Health; Measure of Education	**CO1**
	B	Market Failures in Health and Education: Externalities in health and education: Positive and negative externalities, Public goods in health and education, The role of government intervention in correcting market failures	**CO1**
	C	Demand and Supply in Health and Education: The demand for healthcare and education: Determinants, The supply of health and education services, Private vs. public provision of healthcare and education	**CO1**
	Unit 2	**Health Economics: Theory and Policy**	

	A	Health as a Commodity and Investment: Health as human capital: Relationship between health and productivity, The economics of prevention vs. treatment	**CO2**
	B	Healthcare Markets and Financing: Healthcare systems: Public vs. private provision, Health insurance and financing healthcare: Types and models, The role of government in healthcare financing (e.g., universal healthcare, social health insurance)	**CO2**
	C	Healthcare Inequality and Access: Health disparities: Socioeconomic, regional, and demographic factors, Policies to reduce inequality in health access	**CO2**
	Unit 3	**Education Economics: Theory and Policy**	
	A	Education as a Public Good: The role of education in economic development and social mobility, Education as a merit good: Public vs. private education, The relationship between education and income inequality	**CO3**
	B	Human Capital Theory: The role of education in building human capital, Returns to education: Private and social returns,	**CO3**
	C	Education Financing and Policy: Public vs. private financing of education, Education policy in the context of global and national development goals	**CO3**
	Unit 4	**Economics of Health and Education in India**	
	A	Education and Health System in India: Structure and functioning of the Indian healthcare system, Key health indicators in India: Life expectancy, infant mortality, Disease burden in India, and malnutrition; The Indian education system: Structure, enrollment, and quality	**CO4**
	B	Government initiatives to reduce inequality: Ayushman Bharat, Government policies in education: National Education Policy, Sarva Shiksha Abhiyan, and Mid-Day Meal Scheme	**CO4**
	C	Discussion on different Health and Education databases India	**CO5**
	Unit 5	**The Link Between Health, Education, and Economic Development**	
	A	Role of Human Capital in Economic Growth; Education and health as drivers of labor force productivity, Role of human capital in poverty reduction and social mobility	**CO5**
	B	Economic Impact of Health on Education: The effect of poor health on school attendance and academic performance	**CO6**
	C	Role of Education in Health Outcomes: The impact of education on health literacy and health behaviors	**CO6**
	Mode of examination	Theory	
11	Weightage Distribution	CA / MTE / ETE	
		25% / 25% / 50%	
	Readings/ Text Books	**1.** Grossman, M. (2000). *The Human Capital Model and the Demand for Health*. In *Handbook of Health Economics*. Elsevier. **2.** Schultz, T. P. (2004). *School Subsidies for the Poor: Evaluating the Mexican Progresa Poverty Program*. *Journal of Development Economics*. **3.** World Bank (2019). *World Development Report: The Changing Nature of Work*. World Bank Group.	
	Other References	1. Suryanarayana, M. H. (2011). Economics of Education and Health in India. Pearson Education. 2. Dreze, J., & Sen, A. (2002). India: Development and Participation. Oxford University Press.	

Course Articulation Matrix

Pos / COs	PO1	PO2	PO3	PO4	PO5	PO6	PSO1	PSO2	PSO3	PSO4
CO1	3	-	2	3	2	-	3	3	-	2
CO2	3	-	3	3	3	2	3	3	-	3
CO3	3	-	3	3	2	-	3	3	-	3
CO4	3	-	3	3	3	2	3	3	-	3
CO5	3	-	3	3	3	2	3	3	-	3
CO6	3	-	3	3	2	-	3	3	-	3

1-Low **2-Medium** **3-High**

School: SSHSS		**Batch: 2025-29**	
Program: B.A. (Hons)		**Current Academic Year: 2025-26**	
Branch: Economics		**Semester: IV**	
1	Course Code	EOP2206	
2	Course Title	**Mathematical Economics (Practical)**	
3	Credits	2	
4	Contact Hours (L-T-P)	0-0-4	
	Course Status	Core Practical	
5	Course Description	**Mathematical Economics (Practical)** introduces undergraduate students to the application of fundamental mathematical concepts used in economic analysis. This course introduces fundamental mathematical techniques essential for economic analysis. It covers set theory, matrix operations, single and multivariable differentiation, differential equations, and integration. Students will learn to apply these concepts to solve economic problems, including optimization, economic modeling, and surplus analysis.	
6	Course Objective	The course has the following objectives: 1. Explain fundamental concepts of mathematics and set theory in economic analysis. 2. Solve economic problems using matrix operations and Cramer's rule. 3. Interpret economic functions through differentiation and their real-world applications. 4. Examine the use of partial derivatives, optimization techniques, and integration in economic modeling.	
7	Course Outcomes	On completion of this course the learners will be able to CO1: **Understand** the fundamentals of mathematical economics, mathematical modeling, and set theory for economic analysis. CO2: **Make use of** matrix operations, determinants, and Cramer's Rule to solve economic and mathematical problems. CO3: **Utilize** differentiation techniques for single-variable functions and apply them to economic contexts. CO4: **Analyse** functions of multiple variables, apply optimization techniques, and solve differential equations relevant to economic models. CO5: **Interpret** integration techniques, including definite integrals, for mathematical and economic problem-solving. CO6: **Apply** integration methods to economic analysis, including consumer surplus, producer surplus, and marginal functions.	
8	Outline syllabus		**CO Mapping**
	Unit 1	**Application of Basics of Mathematics and Set Theory**	
	A	Introduction to mathematics application for economic analysis	**CO1**
	B	Framing of mathematical model for solving economic issues	**CO1**

	C	Set theory application in market analysis		**CO1**
	Unit 2	**Application of Matrix and Determinants**		
	A	Applications of matrices in economics for input-output analysis (Leontief model),		**CO2**
	B	Application of matrices game strategies or nash equilibrium.		**CO2**
	C	Applications of Cramer's rule in economics		**CO2**
	Unit 3	**Differentiations – Single Variable Function**		
	A	Continuity and Differentiability of a Function		**CO3**
	B	Application of quotient rule to state average cost and marginal cost relation,		**CO3**
	C	Applications of chain rule in economics		**CO3**
	Unit 4	**Application of Differentiations**		
	A	Application to solve utility & Production Functions		**CO4**
	B	Application of maxima and minima for profit maximization, cost minimization		**CO4**
	C	Application of differential equations		**CO4**
	Unit 5	**Integration**		
	A	Introducing application of integration in economics		**CO5**
	B	Application to consumer surplus		**CO5**
	C	Applications to producer surplus		**CO6**
	Mode of examination	Practical		
11	Weightage Distribution	CA	CE	Viva
		30%	30%	40%
	Readings/ Text Books	1. Mehta, B.C. & Madnani, G.M.K. (2017). Mathematics for Economists. Sultan Chand & Sons, New Delhi. 2. Yamane, Taro. (2014). Mathematics for Economists: An Elementary Survey. Prentice Hall India Learning. 3. Chiang, A.C. & Wainwright, K. (2017). Fundamental Methods of Mathematical Economics. McGraw-Hill Education India.		
	Other References	1. Sydsaeter, K., Hammond, P., & Strom, A. (2012). Essential Mathematics for Economic Analysis. Pearson India. 2. Gupta, S.P. (2014). Statistical Methods. Sultan Chand & Sons, New Delhi. 3. Sydsaeter, K., Hammond, P., Seierstad, A., & Strom, A. (2012). Further Mathematics for Economic Analysis. Pearson Education, UK. 4. Simon, C.P. & Blume, L. (1994). Mathematics for Economists. W.W. Norton & Company, USA. 5. Silberberg, E. & Suen, W. (2001). The Structure of Economics: A Mathematical Analysis. McGraw-Hill Higher Education, USA. 6. Hoy, M., Livernois, J., McKenna, C., Rees, R., & Stengos, T. (2011).		

		Mathematics for Economics. MIT Press, USA.

Course Articulation Matrix

POs / Cos	PO1	PO2	PO3	PO4	PO5	PO6	PSO1	PSO2	PSO3	PSO4
CO1	3	2	-	1	-	1	3	3	-	1
CO2	2	3	2	-	-	1	2	3	3	-
CO3	3	-	2	2	-	-	3	3	2	1
CO4	3	2	3	3	2	-	3	3	3	-
CO5	-	3	-	2	3	2	2	3	-	2
CO6	2	3	-	-	3	3	-	3	3	2

1-Low 2-Medium 3-High

<table>
<tr><td colspan="2">SCHOOL:
Sharda School of Humanities and Social Sciences</td><td>TEACHING DEPARTMENT:
Community Connect</td><td>ACADEMIC SESSION:
2025-2026</td><td>FOR STUDENTS BATCH – BBA/B.A</td></tr>
<tr><td>1</td><td>Course Number</td><td colspan="3">CCU701</td></tr>
<tr><td>2</td><td>Course Title</td><td colspan="3">Community Connect</td></tr>
<tr><td>3</td><td>Credits</td><td colspan="3">2</td></tr>
<tr><td>3.01</td><td>(L-T-P)</td><td colspan="3">(0-0-4)</td></tr>
<tr><td>4</td><td>Learning Hours</td><td colspan="3"><table><tr><td>Contact Hours</td><td>20</td></tr><tr><td>Project/Field Work</td><td>20</td></tr><tr><td>Assessment</td><td>10</td></tr><tr><td>Guided Study</td><td>10</td></tr><tr><td>Total hours</td><td>60</td></tr></table></td></tr>
<tr><td>5</td><td>Course Objectives</td><td colspan="3">The course has the following objectives:
1. The objective of assigning the project related to community work is to expose our students to different social issues faced by the people in different sections of society.
2. This type of project work will help the students to develop better understanding of problems of people living in disadvantage position in the society, may be socially, medically, economically, or otherwise.
3. This type of live project work will help our students to connect their class-room learning with practical issues/problems in the society.</td></tr>
<tr><td>6</td><td>Course Outcomes</td><td colspan="3">After completion of the course, the students will be able to:
CO1: Identify and understand the living challenges and opportunities of disadvantaged communities.
CO2: Relate classroom learning to real-world societal issues for a deeper understanding of community needs.
CO3: Apply acquired knowledge through research and training initiatives to benefit the community.
CO4: Analyse the difficulties faced by and opportunities available to vulnerable sections of society.
CO5: Develop practical and sustainable solutions to address the challenges faced by weaker sections of the community.</td></tr>
<tr><td>7</td><td>Theme</td><td colspan="3">Major Sub-themes for research:
a. Impact of government projects in community
b. Social issues
c. Environment issues
d. Economic issues
e. Technology-adaption
f. HR issues affecting Community
g. Marketing issues affecting Community.
h. Other industrial issues affecting community.</td></tr>
<tr><td>8.1</td><td><u>Guidelines for Faculty Members</u></td><td colspan="3">It will be a group assignment (5 to 7 students), the student will work together as a team, they have to survey at least 250 respondent, and the faculty guide will guide the students and approve the project title and help the student in preparing the</td></tr>
</table>

		questionnaire and final report (the faculty member will collect all the questionnaires of survey and final report and submit to CCC coordinator within stipulated time). The questionnaire should be well design and it should carry at least 20 questions (Including demographic questions). The topic of the research should be related to social, economical or environmental issues concerning the common man. The report should contain 2,500 to 3,000 words and relevant charts, tables and photographs. The student should **submit the report** to CCC-Coordinator signed by the faculty guide. The students have to send the hard copy of the **Report and PPT** to CCC coordinator and then only they will be allowed for External Exam.
8.2	**Role of CCC-Coordinator**	The CCC Coordinator will supervise the whole process and assign students to faculty members. -- the students will be allocated to faculty member (mentors/faculty member).
8.3	**Layout of the Report**	Abstract(250 words) a. Introduction b. Literature review(optional) c. Objective of the research d. Research Methodology e. Finding and discussion f. Conclusion and recommendation/ Suggestion (The report without recommendation/suggestion will not be accepted) g. References Note: Research report should base on primary data.
8.4	**Guideline for Report Writing**	**Title Page: The following elements must be included:** • Title of the article; • Name(s) and initial(s) of author(s), preferably with first names spelled out; • Affiliation(s) of author(s); • Name of the faculty guide and Co-guide **Abstract:** Each article is to be preceded by a succinct abstract, of up to 250 words, that highlights the objectives, methods, results, and conclusions of the paper. **Text: Manuscripts should be submitted in Word.** • Use a normal, plain font (e.g., 12-point Times Roman) for text. • Use italics for emphasis. • *Use the automatic page numbering function to number the pages.* • *Save your file in docx format* (Word 2007 or higher) or doc format (older Word versions) **Reference list:** The list of references should only include works that are cited in the text and that

		have been published or accepted for publication. The entries in the list should be in alphabetical order. Journal article Hamburger, C.: Quasimonotonicity, regularity and duality for nonlinear systems of partial differential equations. Ann. Mat. Pura Appl. 169, 321–354 (1995) Article by DOI Sajti, C.L., Georgio, S., Khodorkovsky, V., Marine, W.: New nanohybrid materials for biophotonics. Appl. Phys. A (2007). doi:10.1007/s00339-007-4137-z Book Geddes, K.O., Czapor, S.R., Labahn, G.: Algorithms for Computer Algebra. Kluwer, Boston (1992) Book chapter Broy, M.: Software engineering — from auxiliary to key technologies. In: Broy, M., Denert, E. (eds.) Software Pioneers, pp. 10–13. Springer, Heidelberg (2002) Online document Cartwright, J.: Big stars have weather too. IOP Publishing PhysicsWeb. http://physicsweb.org/articles/news/11/6/16/1 (2007). Accessed 26 June 2007 Always use the standard abbreviation of a journal's name according to the ISSN List of Title Word Abbreviations, see www.issn.org/2-22661-LTWA-online.php For authors using End Note, Springer provides an output style that supports the formatting of in-text citations and reference list. End Note style (zip, 2 kB) **Tables: All tables are to be numbered using Arabic numerals.** **Figure Numbering: All figures are to be numbered using Arabic numerals**.
8.5	**Format:**	**The report should be Spiral/ hardbound** The Design of the Cover page to report will be given by the Coordinator- CC Cover page Acknowledgement Content Project report Appendices
8.6	**Important Dates:**	: **The students should submit the soft copy of the PPT to CC-Coordinator signed by the faculty guide within specified time.**
8.7	**ETE**	**The students will be evaluated by panel of faculty members**

9	**Course Evaluation**	
9.01	**Continuous Assessment (CA-30%)+ CE 30% + ESE 40%)**	
	Idea Conceptualisation	15 Marks
	Literature review	10 marks
	Questionnaire Design & Data Collection	15 Marks

	Consistency	10 Marks
9.02	**ETE(Project Report)**	**50 Marks**
	Presentation skills	10 Marks
	Communication skills	10 Marks
	Subject Knowledge	15 Marks
	Report	15 Marks

Course Articulation Matrix

Pos / COs	PO1	PO2	PO3	PO4	PO5	PO6	PSO1	PSO2	PSO3	PSO4
CO1	2	-	2	3	2	3	2	2	-	3
CO2	2	-	3	3	3	3	2	2	-	3
CO3	1	-	3	3	3	3	3	2	-	3
CO4	1	-	2	3	2	2	3	2	-	2
CO5	1	-	3	3	2	3	3	3	-	3
CO6	2	-	2	3	2	3	2	2	-	3

1-Low **2-Medium** **3-High**

School: SSHSS		**Batch : 2025-29**
Program: B.A./ B.A. (Hons)/ B.A. (Hons with Research)		**Current Academic Year: 2025-26**
Branch: Economics		**Semester: IV**
1	Course Code	EOR2202
2	Course Title	Research Based Learning-02
3	Credits	1
4	Contact Hours (L-T-P)	0-0-2
	Course Type	RBL (Project/ Practical)
5	Course Description	The course intends to impart knowledge of the basic concepts and components in Research Based Learning. The course content includes: • Publishing research paper and development of the product/process /case that the students work on during the semester to demonstrate identified problem through extensive literature. • Students work on the projects in teams with **three** students per team, and teams may form in interdisciplinary nature. • The deliverables for the projects include submission of reports on regular basis as per the rubrics. • The students also present their work at the end of the semester in the presence of external experts in the form of Written and oral communication components are intertwined with the project deliverables through required project reports and oral project presentations. • It is recommended that the all activities are to be record on regular basis and proper documents are to be maintained by students and faculty mentor. • The report should be prepared in the consultation of the faculty guide and the student should be in regular touch with the faculty guide to complete the work. • The content of the research report should be original and not copied from any other sources. To justify this, the student has to check the plagiarism of the report through Turnitin software. The plagiarism should be less than 10%. The plagiarism report has to be attached with in the research report at the end. • The student should submit the soft copy of the research report to the guide and after getting his/her approval and signature, the final report should be submitted. The report should be original and shall be submitted after checking for

		plagiarism. Please note the following guidelines for the preparation and submission of the report:	
6	Course Objective	The course has the following objectives: 1. Understand the process of conducting a literature review, identifying key concepts, theories, and research gaps. 2. Develop a clear conceptual framework by refining research objectives, formulating hypotheses, and aligning them with identified gaps. 3. Apply appropriate research methodologies, including study types, research designs, and data collection techniques. 4. Design a structured sampling strategy, finalize the research approach, and ensure ethical compliance in report submission.	
7	Course Outcomes	After completion of the course, the students will be able to: CO1: **Analyse** research literature to identify key concepts, theories, and research gaps, and summarize findings. CO2: **Explain** key concepts, terminologies, and the significance of the research topic in an economic or social context. CO3: **Formulate** research objectives, a null hypothesis, and align them with research gaps. CO4: **Define** the research type and select an appropriate research approach. CO5: **Classify** data collection methods, sampling techniques, and relevant secondary data sources. CO6: **Design** a sampling strategy, finalize the sample design, and validate the research report.	
8	Outline syllabus		**CO Mapping**
	Unit 1	**Review of Literature based on the Topic approved in RBL-1**	
	A	Revise the RBL-1 & Conduct an addition review of research papers, reports, and books related to the topic. (Min 15 paper)	**CO1**
	B	Identify key concepts, theories, and gaps in current literature.	**CO1**
	C	Articulate the summary of literature review.	**CO1**
	Unit 2	**Conceptual Background & Framework**	
	A	Revise & refine introduction.	**CO2**
	B	Explain key concepts and terminologies relevant to the research topic.	**CO2**
	C	Highlight the significance of the topic in the current economic or social context.	**CO2**
	Unit 3	**Research Objectives**	
	A	Stating the objectives of research.	**CO3**
	B	Formulation of null hypothesis.	**CO3**
	C	Alignment of research gap, objectives and hypothesis.	**CO3**
	Unit 4	**Research Methodology**	
	A	Define the type of study i.e. qualitative, quantitative, or mixed-method.	**CO4**
	B	Choose the research approach i.e. descriptive, exploratory, experimental, explanatory or case study research designs based	**CO4**

		on the research problem.	
	C	Identify the data collection methods i.e. primary & secondary.	**CO5**
	Unit 5	**Finalize Sampling Strategy & Source of Data**	
	A	Population & Sample Selection – Identifying the target group for the study; Selecting Sampling Methods i.e. Probability Sampling (Random, stratified, cluster sampling) vs Non-Probability Sampling (Convenience, judgmental, snowball sampling), identify secondary source and selection of techniques for secondary data analysis.	**CO5**
	B	Finalize the sample design for the research study	**CO6**
	C	Submission of final report with plagiarism check below 10%	**CO6**
	Mode of examination	Practical	

	Weightage Distribution	CA	CE	Viva
		30%	30%	40%
	Text book/s*	Shaughnessy, J. J., Zechmeister, E. B. & Zechmeister, J. (2012). Research methods in psychology. (9th ed.) NY: McGraw Hill.		
	Other References	1. Acharyya, R. (Ed.), Bhattacharya, N. (Ed.). (2020). Research Methodology for Social Sciences. London: Routledge India, https://doi.org/10.4324/9780367810344 2. Elmes, D. G. (2011). Research Methods in Psychology (9thed.). Wadsworth Publishing. 3. Kloos, B., Hill, J., Thomas, E., Wandersman, Elias, M. J., & Dalton, J.H. (2012). Community Psychology: Linking Individuals and Communities. Wadsworth, Cengage Learning. Tim May (2001). Social Research: Issues, Methods and Process, 3rd edition, Open University Press 4. Miller, L.A., Lovler, R. L., & McIntire, S.A., (2013). Foundations of Psychological Testing: A practical approach. (4th Ed.). Sage publications		

Course Articulation Matrix

POs Cos	PO1	PO2	PO3	PO4	PO5	PO6	PSO1	PSO2	PSO3	PSO4
CO1	3	-	3	2	3	3	3	2	-	2
CO2	3	-	3	3	2	2	3	2	-	2
CO3	3	-	3	3	3	2	2	3	-	3
CO4	2	-	2	3	2	2	3	2	-	2
CO5	3	2	3	3	2	3	3	3	2	3
CO6	2	-	3	3	3	3	3	2	-	3

1-Low **2-Medium** **3-High**

SEMESTER- V

Sr. No	Course Code	Course Name	L	T	P	Credits	Category
1	EOT3301	International Trade Theory and Policy	4	0	0	4	CC
2	EOT3302	Growth & Development	4	0	0	4	CC
3	EOT3303	Economics of Public Finance	3	0	0	3	CC
4	EOT3304	Econometrics: Theory and Application	3	0	0	3	CC
5	EOT3305	Database Management & Computer Application in Economics	3	0	0	3	CC
6	EOP3303	Economics of Public Finance (Practical)	0	0	2	1	Core Practical
7	EOP3304	Econometrics: Theory and Application (Practical)	0	0	2	1	Core Practical
8	EOP3305	Database Management & Computer Application in Economics (Practical)	0	0	2	1	Core Practical
9	EOR3301	Research Based Learning-03	0	0	2	0	RBL
Semester 5 Credits: 20 Min : Max:							

School: SSHSS		**Batch: 2025-29**	
Program: B.A./ B.A. (Hons)/ B.A. (Hons with Research)		**Current Academic Year: 2025-26**	
Branch: -		**Semester: V**	
1	Course Code	EOT3301	
2	Course Title	International Trade Theory and Policy	
3	Credits	4	
4	Contact Hours (L-T-P)	4-0-0	
	Course Status	Major-CC	
5	Course Description	This course covers the fundamental principles of international economics, focusing on trade theories, exchange rates, trade policies, and their impact on economic growth. Students will analyze trade models, policy measures, and how globalization shapes economies. The course provides a solid foundation for understanding international trade and its implications on national and global markets.	
6	Course Objective	The course has the following objectives: 1. Understand the fundamental concepts of international trade. 2. Analyze classical and modern trade theories. 3. Examine exchange rate systems and their impact on trade. 4. Assess trade policies, tariffs, and their economic consequences.	
7	Course Outcomes	On completion of this course the learners will be able to CO1: **Explain** the basic concepts and importance of international trade. CO2: **Analyze** different trade theories and models. CO3: **Evaluate** exchange rate systems and their effects on trade and investment. CO4: **Assess** trade policies, tariffs, and global trade agreements. CO5: **Examine** globalization's impact on economies and trade. CO6: **Discuss** various negotiation round of WTO.	
8	Outline syllabus		**CO Mapping**
	Unit 1	**Introduction to International Economics**	
	A	Meaning and Scope of International Economics	**CO1**
	B	Advantages & Disadvantages of International Trade	**CO1**
	C	Differences Between Domestic and International Trade	**CO1**
	Unit 2	**Trade Theories and Policies**	
	A	Theories of International Trade (Adam Smith, Ricardo, Hecksher Ohlin)	**CO2**
	B	Trade barriers (Tariffs, Quotas, and Subsidies)	**CO2**

	C	Free Trade vs. Protection Policies		**CO2**
	Unit 3	**Exchange Rate Systems and International Finance**		
	A	Fixed vs. Floating Exchange Rates		**CO3**
	B	Balance of Payments and Foreign Exchange Market		**CO3**
	C	Currency Crises and International Financial Stability		**CO3**
	Unit 4	**Globalization and Its Economic Impact**		
	A	Effects of Globalization on Trade		**CO4**
	B	Regional Trade Agreements and Economic Unions		**CO4**
	C	Emerging Economies in Global Trade		**CO4**
	Unit 5	**Contemporary Issues in International Economics**		
	A	International Capital Flows and Foreign Direct Investment (FDI)		**CO5**
	B	Trade Wars and Economic Sanctions (US-China, US-Russia)		**CO5**
	C	WTO Recent Rounds and Negotiation		**CO6**
	Mode of examination	Theory		
11	Weightage Distribution	CA	MTE	ETE
		25%	25%	50%
	Readings/ Text Books	1. International Economics- Bo Södersten, Palgrave Macmillan 2. International Economics: Trade and Finance- Dominick Salvatore, John Wiley International		
	Other References	1. International Economics- H.G. Mannur, Vikas Publishing House 2. International Economics- M.L. Seth, Lakshmi Narain Agarwal Publishers 3. International Economics- M.L. Jhingan, Vrinda Publications		

Course Articulation Matrix

POs Cos	PO1	PO2	PO3	PO4	PO5	PO6	PSO1	PSO2	PSO3	PSO4
CO1	3	-	2	3	2	2	3	2	-	2
CO2	3	-	3	3	2	2	3	3	-	3
CO3	3	-	3	3	3	3	3	3	-	3
CO4	3	-	2	3	3	2	3	2	-	3
CO5	3	-	2	3	2	3	3	3	-	3
CO6	3	-	3	3	3	3	3	3	-	3

1-Low 2-Medium 3-High

School: SSHSS		**Batch: 2025-29**	
Program: B.A./ B.A. (Hons)/ B.A. (Hons with Research)		**Current Academic Year: 2025-26**	
Branch: Economics		**Semester: V**	
1	Course Code	EOT3302	
2	Course Title	Growth & Development	
3	Credits	4	
4	Contact Hours (L-T-P)	4-0-0	
	Course Status	Major-CC	
5	Course Description	The Course is designed for the student's pursuing graduation with Economics in regular mode. The programme aims to inculcate economic thinking among the students in economic decision making by comprehending economic theory.	
6	Course Objective	Upon completion of this course students will be able to: 1. Define and explain the key concepts of economic growth and economic development, highlighting their significance in the economic landscape. 2. Distinguish between economic growth and economic development, and compare their core differences in terms of scope, focus, and implications. 3. Analyse the various issues and challenges related to economic growth and development, addressing factors such as inequality, sustainability, and resource allocation. 4. Comprehend and explain the concept of poverty and human development, and understand the interconnectedness of these concepts in the broader development context.	
7	Course Outcomes	After the completion of the course, the students will be able to: CO1: **Define** and explain the concepts of economic growth and economic development. CO2: **Distinguish** between economic growth and economic development and compare their key differences. CO3: **Explain** the issues and challenges surrounding economic growth and development. CO4: **Examine** and explain the concept of poverty and human development, as well as related concepts. CO5: **Identify** and explain various approaches to development, and evaluate the factors influencing economic development. CO6: **Analyse** how international factors can either facilitate or impede economic development.	
8	Outline syllabus		**CO Mapping**
	Unit 1	**Economic Growth & Development**	

	A	Meaning and Measurement of Economic Growth and Development. Measuring Development and Development Gap, GDP, GNP, Per Capita Income, Factors affecting Economic growth and Development	**CO1**
	B	Concept of Human Development. Human Development Index, Gender Related Development Index (GDI), Gender Empowerment Index (GEM), Hunger Index and Happiness Index.	**CO1**
	C	Development and Sustainability. Concept of Sustainable Development. Millennium Development goals.	**CO1**
	Unit 2	**Development Theories**	
	A	Classical Development Theories of Adam Smith and Ricardo: Assumptions, Discussions, Importance, Criticisms, Arthur Lewis Theory of Development; Rostow's Stages of Economic Growth. Rosenstein Rodan's theory of Big Push	**CO2**
	B	Balanced and Unbalanced Growth: Concepts and Importance in Developing Countries; Forward and Backward Linkage	**CO2**
	C	Harrod-Domar Growth Model- Assumptions, Its Importance in Developing Countries, Criticisms and Solow Model	**CO2**
	Unit 3	**Development & Underdevelopment**	
	A	Structure and Characteristics of Developing Countries, Obstacles to Growth and Development- Poverty and its Measures, Vicious Circle of Poverty. Inequality and Measure of Inequality: Lorenz Curve, Gini Coefficient	**CO3**
	B	Dualism-Social, Lewis, Ranis-Fei, Jorgenson, Dependency Theories of Underdevelopment. Gunnar Myrdal theory of Cumulative Causation	**CO3**
	C	The Theory of Demographic Transition; The two conflicting views on Population and Development-Malthusian View and Kuznets-Simon view.	**CO3**
	Unit 4	**Technical Progress and Endogenous Growth**	
	A	Role of Technology in Economic Development; Problems of Technology in Developing Countries. Embodied and Disembodied Technical Progress.	**CO4**
	B	Arrow's Learning by DoingApproach to Economic Growth. Endogenous growth, Intellectual capital, Role of R&D.	**CO4**
	C	Significance of Capital Formation in Economic Development; Reasons of Low Rate of Capital Formation in Developing Countries.	**CO4**
	Unit 5	**Foreign Trade and Economic Development**	
	A	Role of Foreign Trade in Promoting Economic Development- Issues and Constraints.	**CO5**
	B	Aid and Finance in the Development of Developing Countries-with special reference to India	**CO5**
	C	FDI&FII. Role of Technology Transfer and Multinational Corporations in promoting development in development of	**CO6**

		developing countries		
	Mode of examination	Theory		
11	Weightage Distribution	CA	MTE	ETE
		25%	25%	50%
	Readings/ Text Books	1. Lekhi, R. K. (2008). The Economics of Development and Planning. Kalyani Publishers. 2. Meier, Gerald M., & James E. Rauch (2010). Leading Issues in Economic Development. Oxford University Press. 3. Misra, S. K., & V. K. Puri (2006). Economics of Development and Planning. Himalaya Publishing House.		
	Other References	1. Somashekar, N. T. (2007). Development Economics. New Age International Publishers. 2. Todaro, Michael P., & Stephen Smith (2012). Economic Development. Pearson Education Limited.		

Course Articulation Matrix

Pos / COs	PO1	PO2	PO3	PO4	PO5	PO6	PSO1	PSO2	PSO3	PSO4
CO1	3	-	2	3	2	2	3	2	-	2
CO2	2	-	1	3	2	2	2	2	-	2
CO3	3	-	2	3	3	3	3	3	-	3
CO4	2	-	2	2	2	1	2	2	-	2
CO5	3	-	2	3	2	2	3	3	-	3
CO6	3	-	3	3	3	3	3	3	-	3

1-Low 2-Medium 3-High

School: SSHSS		**Batch: 2025-29**	
Program: B.A./ B.A. (Hons)/ B.A. (Hons with Research)		**Current Academic Year: 2025-26**	
Branch: Economics		**Semester: V**	
1	Course Code	EOT3303	
2	Course Title	Economics of Public Finance	
3	Credits	3	
4	Contact Hours (L-T-P)	3-0-0	
	Course Status	Major-CC	
5	Course Description	The Course is designed for the student's pursuing graduation with Economics in regular mode. The programme aims to inculcate economic thinking among the students in economic decision making by comprehending economic theory	
6	Course Objective	The course has the following objectives: 1. Describe public finance concepts, discuss their significance in the economy, and interpret the role of externalities in shaping public policies. 2. Outline various public revenue sources, discuss taxation principles, and apply tax-related concepts to real-world scenarios. 3. Explain public expenditure principles, assess their effects on the economy, and categorize different types of public debt. 4. Discuss the objectives of fiscal policy, differentiate between various types of budgets, and evaluate the role of federal finance in managing national resources.	
7	Course Outcomes	On completion of this course the learners will be able to CO1: **Describe** public finance concepts, discuss its significance, and interpret externalities. CO2: **Outline** public revenue sources, discuss taxation principles, and apply tax-related concepts. CO3: **Explain** public expenditure principles, assess its impact, and categorize public debt. CO4: **Discuss** fiscal policy objectives, differentiate budget types, and evaluate federal finance. CO5: **Identify** government revenue sources, analyze the current budget, and review the FRBM Act.	
8	Outline syllabus		
	Unit 1	**NATURE AND SCOPE OF PUBLIC FINANCE**	
	A	Meaning & Scope of Public Finance; Public Finance and	**CO1**

		Private Finance; Public Goods and Private Goods; Public goods and free riding; Public Goods and Market Failure		
	B	Role of Public Finance, Principles of Public Finance, Absolute Advantage theory, Principles of Maximum Social Advantage.		**CO1**
	C	Externalities, Efficiency versus Equity; Principles of Sound Finance and Functional Finance		**CO1**
	Unit 2	**PUBLIC REVENUE AND TAXATION**		
	A	Basic Concepts of Public Revenue: Meaning of Public Revenue, Distinction between Revenue and Non-revenue Receipt; Source of Public Revenue: Tax Revenue and Non-Tax Revenue		**CO2**
	B	Meaning and Features of Taxation; Canons of Taxation; Shifting and Incidence of Tax; Direct and Indirect Taxes; Merits and Demerits of Direct and Indirect Taxes; The Benefit Principle of Taxation; The Principle of Ability to pay		**CO2**
	C	Income Tax, Corporate Tax, Capital Gains Tax, Expenditure tax, Gift tax, Sales Tax, VAT, GST		**CO2**
	Unit 3	**PUBLIC EXPENDITURE AND PUBLIC DEBT**		
	A	Meaning of Public Expenditure; Canons of Public Expenditure; The Theory of Maximum Social Advantage; The Principle of Maximum Aggregate Benefit		**CO3**
	B	Effects of Public Expenditure on production, distribution and economic stability; Role of Public Expenditure in developing economy		**CO3**
	C	Concept, Sources, Types of Public Debt, Reasons for growing public Debt, Effects of Public Debt, Burden of Public Debt, Redemption of Public Debt, Debt Trap		**CO3**
	Unit 4	**FISCAL POLICY AND PUBLIC BUDGET**		
	A	Meaning, Objectives, Components, fiscal policies for full employment and economic growth, fiscal policies and price stability, Role of Fiscal Policy in a Developing Economy.		**CO4**
	B	Concept; Components; Classification of Public Budget: Balanced and unbalanced budget, capital and revenue budget, Incremental and Zero-Base Budgeting; Budget deficit: Revenue Deficit, Fiscal Deficit and Primary Deficit		**CO4**
	C	Federal Finance—Meaning, principles and problems of federal finance		**CO4**
	Unit 5	**INDIAN PUBLIC FINANCE**		
	A	Budget of The Government of India (Previous Financial Year); Sources of Public Receipts (Tax and Non-Tax, Introduction To GST)		**CO5**
	B	Highlights of Current Budget and Economic Survey Analysis		**CO5**
	C	Appraisal of FRBM Act 2004; Fiscal Federalism, Finance Commission of India and its role; Recommendation of Current Finance Commission of India		**CO5**
	Mode of examination	Theory		
11	Weightage Distribution	CA	MTE	ETE
		25%	25%	50%

	Readings/ Text Books	1. Bhatia H.L. : *Public Finance,* Vikash Publishers Pvt. Lt. 2. Choudhry, R.K.: *Public Finance and Fiscal Policy*. Kalyani Publisher 3. Hajela T. N. :*Public Finance,* Konark Publishers Pvt. Ltd. 4. Lekhi R. K. (2006): *Public Finance,* Kalyani Publishers, 13th Edition 5. Mankar. V.G; L.S. Sarma (2001): *Public Finance: Theory And Practice,* Himalaya Publishing House, 5th Ed.
	Other References	1. Prakash, Om (2008): Public Economics: Theory and Practice, Vishal Publishing Co. 2. Sundharam & Andley (2001): Public Finance: Theory and Practice, 16th Ed., S. Chand & Co.

Course Articulation Matrix

POs / Cos	PO1	PO2	PO3	PO4	PO5	PO6	PSO1	PSO2	PSO3	PSO4
CO1	3	-	2	3	2	2	3	2	-	2
CO2	2	-	1	3	2	2	2	2	-	2
CO3	3	-	2	3	3	3	3	3	-	3
CO4	2	-	2	2	2	1	2	2	-	2
CO5	3	-	2	3	2	2	3	3	-	3

1-Low 2-Medium 3-High

School: SSHSS		**Batch: 2025-29**
Program: B.A./ B.A. (Hons)/ B.A. (Hons with Research)		**Current Academic Year: 2025-26**
Branch: Economics		**Semester: V**
1	Course Code	EOT3304
2	Course Title	Econometrics: Theory and Application
3	Credits	3
4	Contact Hours (L-T-P)	3-0-0
5	Course Status	Major-CC
6	Course Description	The course is designed in a manner that students can learn basic concepts of econometrics and their applications. More important, students will get hands-on trainings along theoretical class for enhancing their analytical skill.
7	Course Objectives	The course aims: 1. To provide an overview and understanding of the basic premises of application of probability and probability distributions. 2. To introduce students to hypothesis testing and its application. 3. To assist students to integrate the concept of point estimation. 4. To develop an understanding about Econometrics and use of Estimators through Econometrics.
8	Course Outcomes	On successful completion of this module, students will be able to: CO1: **Apply** econometric concepts, estimate two-variable regression models, and show goodness of fit. CO2: **Demonstrate** multiple regression analysis, compare functional forms, and interpret results. CO3: **Identify** and test for multicollinearity, heteroscedasticity, and autocorrelation issues. CO4: **Formulate** structural change tests, utilize dummy variables, and assess model specification. CO5: **Apply** distributed lag and autoregressive models to survey dynamic economic relationships. CO6: **Illustrate** causality in economics using the Granger causality test.
9	Outline syllabus		CO Mapping
	Unit 1	**Introduction to econometrics**	
	A	Definition and Scope, Data and Data Types, and Measurement scales of variable.	CO1
	B	Review of Basic Statistical Concepts	CO1
	C	Two variable regression model – estimation, assumption, properties and Goodness of Fit	CO1
	Unit 2	**Extension of two variable Regression model**	
	A	Regression through the origin and regression on standardized variables	CO2
	B	Different functional forms and elasticity	CO2
	C	Multiple regression analysis – Estimation, and Interpretation	CO2

	Unit 3	**Relaxing the assumptions of the Classical Linear Regression Model**	
	A	Multicollinearity – Concept, Consequences, Detection and Remedy	CO3
	B	Heteroscedasticity - Concept, Consequences, Detection and Remedy	CO3
	C	Autocorrelation - Concept, Consequences, Detection and Remedy	CO3
	Unit 4	**Important Topics in Econometrics**	
	A	Structural Change (Break) and Chow Test	CO4
	B	Dummy Variable Regression Models	CO4
	C	Diagnostic Testing – Model specification error and selection criteria	CO5
	Unit 5	**Dynamic Econometric Models**	
	A	Distributed Lag Models	CO5,
	B	Autoregressive Models	CO6
	C	Detection of Autocorrelation problem in autoregressive models and introduction to causality in Economics using Granger Causality Test	CO6
10	Mode of examination	Theory	
11	Weightage Distribution	CA: 25% / MTE: 25% / ETE: 50%	
12	Readings/ Text Books	**1.** Gujarati, D.N. (2004) "Econometrics: Theory and Application," Fourth Edition, New Delhi: Tata-McGraw Hill. **2.** Johnston, J. (1984) "Econometric Methods," Third Edition, McGraw Hill International Students Edition. **3.** Wooldridge, J.M. (2020) – Introductory Econometrics: A Modern Approach (7th Edition), Cengage Learning, USA. **4.** Maddala, G.S. & Lahiri, K. (2011) – Introduction to Econometrics (4th Edition), Wiley, New Delhi. **5.** Stock, J.H. & Watson, M.W. (2020) – Introduction to Econometrics (4th Edition), Pearson, USA.	
	Other References	**1.** Koutsoyiannis, A. (2001) – Theory of Econometrics (2nd Edition), Palgrave, UK. **2.** Studenmund, A.H. (2017) – Using Econometrics: A Practical Guide (7th Edition), Pearson, USA. **3.** Baltagi, B.H. (2021) – Econometrics (6th Edition), Springer, USA.	

Course Articulation Matrix

Pos / COs	PO1	PO2	PO3	PO4	PO5	PO6	PSO1	PSO2	PSO3	PSO4
CO1	3	3	3	2	2	3	3	3	2	3
CO2	3	3	3	2	2	3	3	3	2	3
CO3	3	3	3	2	2	3	3	3	2	3
CO4	3	3	3	3	3	3	3	3	2	3
CO5	3	3	3	3	2	3	3	3	2	3
CO6	3	3	3	3	2	3	3	3	2	3

1-Low **2-Medium** **3-High**

School: SSHSS		**Batch : 2025-29**	
Program: B.A./ B.A. (Hons)/ B.A. (Hons with Research)		**Current Academic Year: 2025-26**	
Branch: Economics		**Semester: V**	
1	Course Code	EOT3305	
2	Course Title	**Database Management & Computer Applications in Economics**	
3	Credits	3	
4	Contact Hours (L-T-P)	3-0-0	
	Course Status	Major- CC	
5	Course Description	Policies for development of an economy rely the data and its interpretation. Therefore, Governments and non-government institutions and researchers collect and analyse data with the help of computer applications. Hence, database and computer applications particularly in economics have been emerged as the pivotal instruments of economic analysis, research and forecasting. Therefore, the future economists must be equipped with skills and tools based on database and computer applications, which this course shall provide to them. This will not only enhance their employability but also prepare them for the challenges of the future.	
6	Course Objectives	The course has the following objectives: 1. Develop the ability to access, process, and analyze Indian economic data using Microsoft Excel and Stata. 2. Gain proficiency in handling both cross-sectional and time-series data for economic analysis. 3. Apply statistical techniques to evaluate and interpret economic trends effectively. 4. Enhance decision-making skills by deriving meaningful insights from economic data.	
7	Course Outcomes	After the successful collection of course, the students will be able to: CO1: **Identify** and utilize Indian economic databases for data analysis. CO2: **Apply** Microsoft Excel functions for data processing, visualization, and basic statistical analysis. CO3: **Utilize** Stata for data management, exploratory analysis, and statistical operations. CO4: **Demonstrate** the use of cross-sectional data for economic research and regression analysis. CO5: **Apply** time series data concepts for economic trend analysis and visualization. CO6: **Make use of** time series data for descriptive analysis and interpret economic patterns.	
8	Outline syllabus		**CO Mapping**
	Unit 1	**Database on Indian Economy**	
	A	Time series database on macroeconomic aggregates – Gross Domestic Products, Consumer Price Index, Wholesale Price Index, Component of Money Supply etc.	CO1
	B	Household level database –National Sample Survey and India Human Development Survey	CO1
	C	Database on sub-sectors of Indian Economy – Industry - Annual Survey on Industry Agriculture - Crop Production Statistics, Agricultural Census and Input Survey Health - National Family Health Survey	CO1

	Unit 2	**Data processing Using Microsoft Excel**	
	A	Overview of Data Characteristics, Fundamentals of Spreadsheets; Fill Handles – Absolute Positioning – Cell operations – Data Sorting & Filter -Specific Functions – Frequencies – Charts & chart Options	CO2
	B	Mathematical Functions; Transformations – Matrices - Solving Linear Equations using spreadsheet - Linear programming using Excel Solve	CO2
	C	Statistical Functions: Measures of Central Tendencies & Dispersions –Data Analysis; Regression – forecasting – Chi-Square Test	CO2
	Unit 3	**Introduction to Stata**	
	A	Description; Stata Windows - Creating New Data set - Importing ASCII data – Creating Log, and Do files - Generating & Replacing Variables	CO3
	B	Summary statistics & exploratory data analysis – frequency tables & Two-way cross tabulations	CO3
	C	Different types of data feeding on STATA	CO3
	Unit 4	**Introduction to Cross Section Data Series**	
	A	Definition and Characteristics of Cross-Section Data	CO4
	B	Sources of Cross-Section Data in Economics	CO4
	C	Uses of Cross-Section Data for Regression analysis	CO4
	Unit 5	**Introduction to Time Series Data Series**	
	A	Definition and characteristics of time series data, Difference between time series, cross-section, and panel data	CO5, CO6
	B	Sources and Key Components of Time Series Data-Trend, Seasonality, Cyclical variations, Irregular fluctuations.	CO5, CO6
	C	Visualization and Descriptive Analysis of Time Series Data	CO5, CO6
	Mode of examination	Theory	
	Weightage Distribution	CA: 25% / MTE: 25% / ETE: 50%	
	Text book/s	1. Ulrich Kohler and Frauke Kreuter (2005), Data Analysis Using Stata, STATA Press. 2. Sabine Landau and Brian S. Everitt (2004),A Handbook of Statistical Analyses using SPSS, A CRC Press Company.	
	Other References	1. Alan C. Acock (2018), A Gentle Introduction to Stata (Sixth Edition), STATA Press. 2. Pandya Kiran, SPSS in Simple Steps, Dreamtech Press India Pvt. Ltd. 3. Jain, S.P. & Narang, K.L. (2020): Statistics and Data Analysis for Economics, Kalyani Publishers, New Delhi. 4. Kumar, P. (2019): Data Analysis Using Microsoft Excel, Pearson India, New Delhi.	

Course Articulation Matrix

POs / Cos	PO1	PO2	PO3	PO4	PO5	PO6	PSO1	PSO2	PSO3	PSO4
CO1	3	2	3	2	-	-	3	2	-	3
CO2	3	-	2	3	-	-	3	-	2	3
CO3	3	-	3	2	-	-	3	2	-	3
CO4	2	3	-	3	-	-	3	-	2	3
CO5	3	-	2	3	-	-	3	2	-	3
CO6	2	3	-	2	-	-	3	-	2	3

1-Low 2-Medium 3-High

School: SSHSS		**Batch: 2025-29**	
Program: B.A./ B.A. (Hons)/ B.A. (Hons with Research)		**Current Academic Year: 2025-26**	
Branch: Economics		**Semester: V**	
1	Course Code	EOP3303	
2	Course Title	Economics of Public Finance (Practical)	
3	Credits	1	
4	Contact Hours (L-T-P)	0-0-2	
	Course Status	Core Practical	
5	Course Description	The Course is designed for the student's pursuing graduation with Economics in regular mode. The programme aims to inculcate economic thinking among the students in economic decision making by comprehending economic theory	
6	Course Objective	The course has the following objectives: 1. Describe public finance concepts, discuss their significance in the economy, and interpret the role of externalities in shaping public policies. 2. Outline various public revenue sources, discuss taxation principles, and apply tax-related concepts to real-world scenarios. 3. Explain public expenditure principles, assess their effects on the economy, and categorize different types of public debt. 4. Discuss the objectives of fiscal policy, differentiate between various types of budgets, and evaluate the role of federal finance in managing national resources.	
7	Course Outcomes	On completion of this course the learners will be able to CO1: **Describe** public finance concepts, discuss its significance, and interpret externalities. CO2: **Outline** public revenue sources, discuss taxation principles, and apply tax-related concepts. CO3: **Explain** public expenditure principles, assess its impact, and categorize public debt. CO4: **Discuss** fiscal policy objectives, differentiate budget types, and evaluate federal finance. CO5: **Identify** government revenue sources, analyze the current budget, and review the FRBM Act.	
8	Outline syllabus		
	Unit 1	**NATURE AND SCOPE OF PUBLIC FINANCE**	
	A	**Meaning & Scope of Public Finance:** Conduct a case study analysis	**CO1**

		of the role of public finance in a developing country. Compare the role of government spending versus private sector.		
	B	**Public Goods and Private Goods**: Identify a public good and a private good in your local area. Analyze the challenges in providing these goods and the role of government intervention.		**CO1**
	C	**Market Failure and Public Goods:** Examine a market failure scenario (such as environmental pollution) and evaluate how government intervention can correct the failure through public goods.		**CO1**
	Unit 2	**PUBLIC REVENUE AND TAXATION**		
	A	**Sources of Public Revenue:** Create a comparative analysis of tax revenue and non-tax revenue in a country of your choice.		**CO2**
	B	**Direct and Indirect Taxes:** Analyze the impact of direct taxes (e.g., income tax) and indirect taxes (e.g., VAT, GST) on a business.		**CO2**
	C	**Ability to Pay & Benefit Principle:** Design a simple survey to gather public opinion on progressive taxation. Analyze the results and discuss how the principles of ability to pay and benefit principles are perceived by different income groups.		**CO2**
	Unit 3	**PUBLIC EXPENDITURE AND PUBLIC DEBT**		
	A	**Public Expenditure and Maximum Social Advantage:** Evaluate a public expenditure program (such as a government healthcare scheme) in terms of its social benefits.		**CO3**
	B	**Effects of Public Expenditure on Economic Stability:** Choose a recent example of significant public expenditure and evaluate its impact on national economic stability, employment, and inflation.		**CO3**
	C	**Public Debt and Economic Growth**: Prepare a report analyzing the public debt situation of a country (e.g., India, USA) and its effect on long-term economic growth.		**CO3**
	Unit 4	**FISCAL POLICY AND PUBLIC BUDGET**		
	A	**Role of Fiscal Policy in Economic Growth:** Create model of fiscal policy tools and predict their potential impact on economic growth during an economic recession.		**CO4**
	B	**Types of Public Budgets: Balanced vs. Unbalanced:** Prepare two sample public budgets—one balanced and one unbalanced—for a hypothetical government.		**CO4**
	C	**Federal Finance:** Investigate a federal system of government (such as India) and assess the challenges that arise in managing fiscal relations between central and state governments.		**CO4**
	Unit 5	**INDIAN PUBLIC FINANCE**		
	A	**Government Budget and Public Receipts:** Analyze the most recent budget of India. Identify major sources of public receipts (tax and non-tax) and assess the efficiency of revenue generation strategies employed by the government.		**CO5**
	B	**Current Economic Survey and Budget Analysis:** Review the current Economic Survey and government budget.		**CO5**
	C	**FRBM Act 2004 and Fiscal Federalism:** Examine the implications of the Fiscal Responsibility and Budget Management (FRBM) Act 2004 on India's fiscal policy.		**CO5**
	Mode of examination	Practical		
11	Weightage Distribution	CA	CE	Viva
		30%	30%	40%

	Readings/ Text Books	1. Bhatia H.L. : *Public Finance,* Vikash Publishers Pvt. Lt. 2. Choudhry, R.K.: *Public Finance and Fiscal Policy*. Kalyani Publisher 3. Hajela T. N. :*Public Finance*, Konark Publishers Pvt. Ltd. 4. Lekhi R. K. (2006): *Public Finance*, Kalyani Publishers, 13th Edition 5. Mankar. V.G; L.S. Sarma (2001): *Public Finance: Theory And Practice,* Himalaya Publishing House, 5th Ed.
	Other References	1. Prakash, Om (2008): Public Economics: Theory and Practice, Vishal Publishing Co. 2. Sundharam & Andley (2001): Public Finance: Theory and Practice, 16th Ed., S. Chand & Co.

Course Articulation Matrix

POs / Cos	PO1	PO2	PO3	PO4	PO5	PO6	PSO1	PSO2	PSO3	PSO4
CO 1	3	2	1	3	2	1	2	2	-	1
CO2	2	1	3	2	1	2	2	2	2	2
CO3	2	1	3	2	2	3	2	3	2	2
CO4	2	2	3	2	1	2	3	1	2	1
CO5	1	2	2	3	1	3	2	-	2	2
CO6	2	1	3	2	1	2	2	2	2	2

1-Low 2-Medium 3-High

Econometrics: Theory and Application Practical

Database (Practical)

School: SSHSS		**Batch: 2025-29**
Program: B.A./ B.A. (Hons)/ B.A. (Hons with Research)		**Current Academic Year: 2025-26**
Branch: Economics		**Semester: V**
1	Course Code	EOP3304
2	Course Title	Econometrics: Theory and Application (Practical)
3	Credits	1
4	Contact Hours (L-T-P)	0-0-2
5	Course Status	Core Practical
6	Course Description	The course is designed in a manner that students can learn basic concepts of econometrics and their applications. More important, students will get hands-on trainings along theoretical class for enhancing their analytical skill.
7	Course Objectives	The course aims: 1. To provide an overview and understanding of the basic premises of application of probability and probability distributions. 2. To introduce students to hypothesis testing and its application. 3. To assist students to integrate the concept of point estimation. 4. To develop an understanding about Econometrics and use of Estimators through Econometrics.
8	Course Outcomes	On successful completion of this module, students will be able to: CO1: **Apply** econometric concepts, estimate two-variable regression models, and show goodness of fit. CO2: **Demonstrate** multiple regression analysis, compare functional forms, and interpret results. CO3: **Identify** and test for multicollinearity, heteroscedasticity, and autocorrelation issues. CO4: **Formulate** structural change tests, utilize dummy variables, and assess model specification. CO5: **Apply** distributed lag and autoregressive models to survey dynamic economic relationships. CO6: **Illustrate** causality in economics using the Granger causality test.
9	Outline syllabus		CO Mapping
	Unit 1	**Introduction to econometrics**	
	A	Classify variables (nominal, ordinal, interval, ratio) in a given dataset	CO1
	B	Calculate mean, median, standard deviation, and create histograms	CO1
	C	Create boxplots for variables.	CO1
	Unit 2	**Extension of two variable Regression model**	
	A	Estimate a two-variable regression (e.g., income vs. education).	CO2

	B	Interpret coefficients	CO2
	C	Interpret R^2	CO2
	Unit 3	**Relaxing the assumptions of the Classical Linear Regression Model**	
	A	Use correlation matrix and VIF to detect multicollinearity in data.	CO3
	B	Apply Breusch-Pagan or White test for heteroscedasticity.	CO3
	C	Apply Durbin-Watson test or Breusch-Godfrey test.	CO3
	Unit 4	**Important Topics in Econometrics**	
	A	Use GDP data before and after a policy change. Perform Chow test.	CO4
	B	Create a dummy for gender/region	CO4
	C	Include a dummy for gender in a regression model	CO5
	Unit 5	**Dynamic Econometric Models**	
	A	Estimate AR(1) and AR(2) models using macroeconomic data.	CO5,
	B	Test if one time-series variable (e.g., inflation) Granger-causes another (e.g., interest rates).	CO6
	C	Apply on some other case	CO6
10	Mode of examination	Core Practical	
11	Weightage Distribution	CA: 30% / MTE: 30% / Viva: 40%	
12	Readings/ Text Books	**1.** Gujarati, D.N. (2004) "Econometrics: Theory and Application," Fourth Edition, New Delhi: Tata-McGraw Hill. **2.** Johnston, J. (1984) "Econometric Methods," Third Edition, McGraw Hill International Students Edition. **3.** Wooldridge, J.M. (2020) – Introductory Econometrics: A Modern Approach (7th Edition), Cengage Learning, USA. **4.** Maddala, G.S. & Lahiri, K. (2011) – Introduction to Econometrics (4th Edition), Wiley, New Delhi. **5.** Stock, J.H. & Watson, M.W. (2020) – Introduction to Econometrics (4th Edition), Pearson, USA.	
	Other References	**1.** Koutsoyiannis, A. (2001) – Theory of Econometrics (2nd Edition), Palgrave, UK. **2.** Studenmund, A.H. (2017) – Using Econometrics: A Practical Guide (7th Edition), Pearson, USA. **3.** Baltagi, B.H. (2021) – Econometrics (6th Edition), Springer, USA.	

Course Articulation Matrix

Pos / COs	PO1	PO2	PO3	PO4	PO5	PO6	PSO1	PSO2	PSO3	PSO4
CO1	3	3	3	2	2	3	3	3	2	3
CO2	3	3	3	2	2	3	3	3	2	3
CO3	3	3	3	2	2	3	3	3	2	3
CO4	3	3	3	3	3	3	3	3	2	3
CO5	3	3	3	3	2	3	3	3	2	3
CO6	3	3	3	3	2	3	3	3	2	3

1-Low 2-Medium 3-High

School: SSHSS		**Batch : 2025-29**	
Program: B.A./ B.A. (Hons)/ B.A. (Hons with Research)		**Current Academic Year: 2025-26**	
Branch: Economics		**Semester: V**	
1	Course Code	EOP3305	
2	Course Title	**Database Management & Computer Applications in Economics (Practical)**	
3	Credits	1	
4	Contact Hours (L-T-P)	0-0-2	
	Course Status	Core Practical	
5	Course Description	Policies for development of an economy rely the data and its interpretation. Therefore, Governments and non-government institutions and researchers collect and analyse data with the help of computer applications. Hence, database and computer applications particularly in economics have been emerged as the pivotal instruments of economic analysis, research and forecasting. Therefore, the future economists must be equipped with skills and tools based on database and computer applications, which this course shall provide to them. This will not only enhance their employability but also prepare them for the challenges of the future.	
6	Course Objectives	The course has the following objectives: 5. Develop the ability to access, process, and analyze Indian economic data using Microsoft Excel and Stata. 6. Gain proficiency in handling both cross-sectional and time-series data for economic analysis. 7. Apply statistical techniques to evaluate and interpret economic trends effectively. 8. Enhance decision-making skills by deriving meaningful insights from economic data.	
7	Course Outcomes	After the successful collection of course, the students will be able to: CO1: **Identify** and utilize Indian economic databases for data analysis. CO2: **Apply** Microsoft Excel functions for data processing, visualization, and basic statistical analysis. CO3: **Utilize** Stata for data management, exploratory analysis, and statistical operations. CO4: **Demonstrate** the use of cross-sectional data for economic research and regression analysis. CO5: **Apply** time series data concepts for economic trend analysis and visualization. CO6: **Make use of** time series data for descriptive analysis and interpret economic patterns.	
8	Outline syllabus		**CO Mapping**
	Unit 1	**Database on Indian Economy**	
	A	Analyze the **trend of GDP growth** over the last 20 years and identify periods of economic slowdown or boom.	CO1
	B	Compare **CPI vs WPI inflation trends** to evaluate consumer vs producer price pressures.	CO1
	C	Map **crop yield variations** across states for major cereals.	CO1

	Unit 2	**Data processing Using Microsoft Excel**	
	A	Compute **mean, median, standard deviation** for income distribution data.	CO2
	B	Apply **linear equations** to solve simple macroeconomic identities (e.g., GDP = C + I + G + NX).	CO2
	C	Sort and filter NSSO data to isolate specific population segments (e.g., rural women in a specific income bracket).	CO2
	Unit 3	**Introduction to Stata**	
	A	**Create a new dataset** from scratch by entering sample economic data (e.g., income, education, employment).	CO3
	B	Create a log file to record all output and write a do-file for replicable code including variable generation and summary stats. Generate new variables (e.g., per_capita_income = income / household_size) and replace missing or incorrect values.	CO3
	C	Run summary statistics for variables like income, age, and household size (summarize, tabstat).	CO3
	Unit 4	**Introduction to Cross Section Data Series**	
	A	From a cross-sectional dataset, identify and classify variables into **categorical, ordinal, and continuous** types.	CO4
	B	Display a sample dataset of 50 households observed in the same year.	CO4
	C	Uses of Cross-Section Data for Regression analysis	CO4
	Unit 5	**Introduction to Time Series Data Series**	
	A	se a dataset with variables like income, education, gender, and age. Run a simple linear regression:	CO5, CO6
	B	Interpreting Coefficients	CO5, CO6
	C	Discuss why causality is difficult to establish in cross-sectional regressions.	CO5, CO6
	Mode of examination	Core Practical	
	Weightage Distribution	CA: 30% / CE: 30% / Viva: 40%	
	Text book/s	1. Ulrich Kohler and Frauke Kreuter (2005), Data Analysis Using Stata, STATA Press. 2. Sabine Landau and Brian S. Everitt (2004),A Handbook of Statistical Analyses using SPSS, A CRC Press Company.	
	Other References	1. Alan C. Acock (2018), A Gentle Introduction to Stata (Sixth Edition), STATA Press. 2. Pandya Kiran, SPSS in Simple Steps, Dreamtech Press India Pvt. Ltd. 3. Jain, S.P. & Narang, K.L. (2020): Statistics and Data Analysis for Economics, Kalyani Publishers, New Delhi. 4. Kumar, P. (2019): Data Analysis Using Microsoft Excel, Pearson India, New Delhi.	

Course Articulation Matrix

POs / Cos	PO1	PO2	PO3	PO4	PO5	PO6	PSO1	PSO2	PSO3	PSO4
CO1	3	2	3	2	-	-	3	2	-	3
CO2	3	-	2	3	-	-	3	-	2	3
CO3	3	-	3	2	-	-	3	2	-	3
CO4	2	3	-	3	-	-	3	-	2	3
CO5	3	-	2	3	-	-	3	2	-	3
CO6	2	3	-	2	-	-	3	-	2	3

1-Low 2-Medium 3-High

School: SSHSS		**Batch: 2025-29**
Program: B.A./ B.A. (Hons)/ B.A. (Hons with Research)		**Current Academic Year: 2025-26**
Branch: Economics		**Semester: V**
1	Course Code	EOR3301
2	Course Title	Research Based Learning-03
3	Credits	0
4	Contact Hours (L-T-P)	0-1-0
	Course Type	RBL (Project/ Practical)
5	Course Description	The course intends to impart knowledge of the basic concepts and components in Research Based Learning. The course content includes: • Publishing research paper and development of the product/process /case that the students work on during the semester to demonstrate identified problem through extensive literature. • Students work on the projects in teams with **three** students per team, and teams may form in interdisciplinary nature. • The deliverables for the projects include submission of reports on regular basis as per the rubrics. • The students also present their work at the end of the semester in the presence of external experts in the form of Written and oral communication components are intertwined with the project deliverables through required project reports and oral project presentations. • It is recommended that the all activities are to be record on regular basis and proper documents are to be maintained by students and faculty mentor. • The report should be prepared in the consultation of the faculty guide and the student should be in regular touch with the faculty guide to complete the work. • The content of the research report should be original and not copied from any other sources. To justify this, the student has to check the plagiarism of the report through Turnitin software. The plagiarism should be less than 10%. The plagiarism report has to be attached with in the research report at the end. • The student should submit the soft copy of the research report to the guide and after getting his/her approval and signature, the final report should be submitted.

		The report should be original and shall be submitted after checking for plagiarism. Please note the following guidelines for the preparation and submission of the report:	
6	Course Objectives	The course has the following objective: 1. To enhance the ability to review, update, and align previous research work with study objectives. 2. To develop skills in identifying data sources, extracting, and preparing datasets for analysis. 3. To apply appropriate statistical and analytical techniques to interpret research findings effectively. 4. To evaluate key findings, discuss implications, and propose policy recommendations or future research directions.	
6	Course Outcomes	After completion of the course, the students will be able to: CO1: **Rephrase** previous research work, align objectives, and conduct an additional literature review. CO2: **Identify** data sources and variables, collect and prepare relevant datasets. CO3: **Analyse** data using statistical tools and interpret trends, relationships, and policy implications. CO4: **Evaluate** research findings by comparing with existing literature and discussing key insights. CO5: **Summarize** key findings and **conclude** the study. CO6: **Recommend** policy suggestions or future research directions and ensure ethical compliance in report submission.	
8	Outline syllabus		**CO Mapping**
	Unit 1	**Revision, Update & Review**	
	A	Revise the RBL-1 & RBL-2 work.	CO1
	B	Alignment in the RBL-1 & RBL-2 work as per the objectives of the study.	CO1
	C	Conduct additional review of research papers, reports, and books related to the topic. (Min 15 papers)	CO1
	Unit 2	**Identifying the Data Sources**	
	A	Identifying the data sources & variables.	CO2
	B	Collection and extraction of data.	CO2
	C	Preparation of collected data.	CO2
	Unit 3	**Data Analysis**	
	A	Identifying the analytical techniques, statistical tools (Excel, SPSS, R, etc.) for data analysis	CO3
	B	Interpret trends, relationships, and policy implications.	CO3
	C	Prepare an analysis summary based on tables, graphs, and suitable models from data.	CO3
	Unit 4	**Findings & Discussion**	
	A	Compare results with existing literature and prepare concluding finding of research work.	CO4
	B	Discussion on key findings.	CO4
	C	Limitation and future prospects of the study	CO4

	Unit 5	**Conclusion & Recommendations**		
	A	Conclude key findings.		CO5
	B	Provide policy suggestions or future research directions.		CO6
	C	Submission of final report with plagiarism check below 10%		CO6
	Mode of examination	Practical		
	Weightage Distribution	CA	CE	Viva
		30%	30%	40%
	Text book/s*	1. Shaughnessy, J. J., Zechmeister, E. B. & Zechmeister, J. (2012). Research methods in psychology. (9th ed.) NY: McGraw Hill.		
	Other References	1. Acharyya, R. (Ed.), Bhattacharya, N. (Ed.). (2020). Research Methodology for Social Sciences. London: Routledge India, https://doi.org/10.4324/9780367810344 2. Elmes, D. G. (2011). Research Methods in Psychology (9thed.). Wadsworth Publishing. 3. Kloos, B., Hill, J., Thomas, E., Wandersman, Elias, M. J., & Dalton, J.H. (2012). Community Psychology: Linking Individuals and Communities. Wadsworth, Cengage Learning. Tim May (2001). Social Research: Issues, Methods and Process, 3rd edition, Open University Press 4. Miller, L.A., Lovler, R. L., & McIntire, S.A., (2013). Foundations of Psychological Testing: A practical approach. (4th Ed.). Sage publications		

Course Articulation Matrix

POs / Cos	PO1	PO2	PO3	PO4	PO5	PO6	PSO1	PSO2	PSO3	PSO4
CO1	2	-	2	-	3	2	3	2	-	-
CO2	1	3	2	2	2	3	2	3	3	-
CO3	-	3	3	3	3	3	2	3	3	3
CO4	3	2	3	3	3	3	3	3	3	3
CO5	2	-	3	3	3	3	2	3	3	3
CO6	-	-	3	2	3	3	2	3	3	3

1-Low **2-Medium** **3-High**

SEMESTER -VI

Sr. No	Course Code	Course Name	L	T	P	Credits	Category
1	EOT3306	Economics of Development	4	0	0	4	Minor
2	EOT3307	Global Trade & Financial Institutions	4	0	0	4	Minor
3	EOT3308	Economics of Money & Banking	4	0	0	4	Minor
4	EOT3309	Digital Economics	3	0	0	3	Multidisciplinary
5	ENT3311	Introduction to French	2	0	0	2	AEC
6		Industry Connect	0	0	4	2	Industry Connect
7	EOR3302	Research Based Learning-04	0	0	2	1	RBL
Semester 6 Credits: 20 Min : Max:							

School: SSHSS		**Batch: 2025-29**	
Program: B.A./ B.A. (Hons)/ B.A. (Hons with Research)		**Current Academic Year: 2025-26**	
Branch: Economics		**Semester: VI**	
1	Course Code	EOT3306	
2	Course Title	Economics of Development	
3	Credits	4	
4	Contact Hours (L-T-P)	4-0-0	
5	Course Status	Minor	
6	Course Description	The Course is designed for the student's pursuing graduation with Economics in regular mode. This course explores key concepts of economic growth and development, covering growth models, underdevelopment, poverty, inequality, and sustainable development. It also examines real-world issues with a focus on India's development challenges and policies.	
7	Course Objectives	The course has the following objectives: 1. Explain key concepts, models, and challenges related to economic growth and development. 2. Analyse development gaps, causes of underdevelopment, and their economic implications. 3. Examine the dynamics of poverty and inequality, with a focus on sustainable and inclusive growth. 4. Evaluate economic growth and development in the Indian context, considering policy approaches and real-world applications.	
8	Course Outcomes	On completion of this course the learners will be able to: CO1: **Understand** the concepts of economic growth and development, measuring development gaps, and the factors influencing sustainable development. CO2: **Analyse** various growth models, including Harrod-Domar, Solow, and endogenous growth models, along with demographic transition and inclusive growth perspectives. CO3: **Examine** the characteristics and causes of underdevelopment, including poverty traps, circular causation, dualism, and dependency theories. CO4: **Evaluate** the role of political institutions in economic performance, democracy, state functioning, and the impact of governance on growth. CO5: **Assess** the effects of state ownership, regulation, government failures, and corruption on economic policy and development. CO6: **Analyse** poverty and inequality using different metrics, understanding their mechanisms and long-term implications for growth.	
9	Outline syllabus		**CO Mapping**
	Unit 1	**Introduction to Development**	
	A	Economic Development. Meaning, Measuring Development and Development Gap, Factors affecting Development aspect of the economy and Quality life Index	**CO1**

	B	Convergence, neoclassical theory.	**CO1**
	C	Sustainable Development	**CO1**
	Unit 2	**Growth Models**	
	A	The Harrod-Domar model, the Solow model, and evidence on the determinants of growth	**CO2**
	B	Theory of Demographic Transition, Population as Limits to Growth.	**CO2**
	C	The Concept of Inclusive Growth-with Reference to India.	**CO2**
	Unit 3	**Theories of Underdevelopment**	
	A	Underdevelopment: Concept; Poverty Concept, Vicious Circle of Poverty.	**CO3**
	B	Circular Causation, Dualism-Social, Technological, Financial, Organizational, Model of Dual Economy.	**CO3**
	C	Lewis, Ranis-Fei, Dependency Theories of Underdevelopment.	**CO3**
	Unit 4	**Political Institutions and the Functioning of the State**	
	A	The determinants of democracy; alternative institutional trajectories and their relationship with economic performance	**CO4**
	B	Within-country differences in the functioning of state institutions and Accumulation Endogenous growth	**CO4**
	C	State Ownership and Regulation; government failures and corruption. Policy formulation procedure and implications.	**CO5**
	Unit 5	**Poverty and Inequality: Definitions, Measures and Mechanisms**	
	A	Inequality axioms; comparison of commonly used inequality measures	**CO5**
	B	Connections between inequality and development; poverty measurement; characteristics of the poor	**CO6**
	C	Poverty traps, Mechanism of poverty traps and path dependence of growth processes	**CO6**
10	Mode of examination	Theory	
11	Weightage Distribution	CA: 25% / MTE: 25% / ETE: 50%	
	Readings/ Text Books	1. Barro, Robert J and Xavier Sala-i-Martin, Economic Growth ,The MIT Press, Cambridge, Latest Edition. 2. Basu, Kaushik(2010):Analytical Development Economics: The Less Developed Economy, Oxford University Press. 3. Dasgupta, Dipankar: Growth Theory, Oxford University Press, 2007 4. Ray, Debraj. *Development Economics*. Princeton University Press, 1998. ISBN: 9780691017068. 5. Bardhan, Pranab and Christopher Udry. *Development Microeconomics*. Oxford: Oxford University Press, 1999. ISBN: 9780198773719.	
	Other References	1. Banerjee, Abhijit and Esther Duflo. Poor Economics. Public Affairs, 2011. ISBN: 9781610390934. 2. Angrist, Josh and Stephen Pishke. Mostly Harmless Econometrics. Princeton and Oxford: Princeton University Press, 2009. ISBN: 9780691120355. 3. Imbens, Guido and Donald Rubin. Causal Inference for Statistics, Social, and Biomedical Sciences: An Introduction. Cambridge University Press, 2015. ISBN: 9780521885881.	

Course Articulation Matrix

POs / Cos	PO1	PO2	PO3	PO4	PO5	PO6	PSO1	PSO2	PSO3	PSO4
CO1	3	-	2	2	-	1	3	3	-	2
CO2	3	-	-	3	1	-	3	3	3	-
CO3	3	-	2	-	1	1	3	3	-	3
CO4	3	-	-	3	-	1	3	-	3	3
CO5	3	-	-	3	1	-	3	3	2	-
CO6	3	-	2	3	-	1	3	3	3	3

1-Low 2-Medium 3-High

School: SSHSS		**Batch : 2025-29**	
Program: B.A./ B.A. (Hons)/ B.A. (Hons with Research)		**Current Academic Year: 2025-26**	
Branch: Economics		**Semester: VI**	
1	Course Code	EOT3307	
2	Course Title	Global Trade and Financial Institutions	
3	Credits	4	
4	Contact Hours (L-T-P)	4-0-0	
	Course Status	Minor	
5	Course Description	This course examines global trade institutions, financial organizations, and their role in shaping international trade and investment. It covers key institutions such as the WTO, IMF, and World Bank, their policies, and how they influence global economic stability. The course also explores financial crises, trade agreements, and the challenges of regulating global finance.	
6	Course Objective	The course has the following objectives: 1. To explain global trade institutions, financial markets, and international economic policies. 2. To analyse trade agreements, financial regulations, and the effects of globalization on trade and finance. 3. To evaluate emerging trends such as digital currencies, sustainable finance, and their economic implications. 4. To examine the future of global economic cooperation and its impact on international trade and finance.	
7	Course Outcomes	On completion of this course the learners will be able to CO1: **Define** the role, structure, and functions of key global trade institutions (WTO, IMF, World Bank) and their influence on economic stability. CO2: **Analyse** the effects of trade agreements and economic unions on global trade and resolve trade disputes through international mediation. CO3: **Examine** the functioning of international financial markets, exchange rate policies, and crisis management strategies. CO4: **Assess** the impact of globalization on financial markets and evaluate regulatory challenges and policy responses. CO5: **Explore** emerging trends in global trade, including digital currencies and sustainable finance practices. CO6: **Evaluate** the future of global trade and the prospects for economic cooperation.	
8	Outline syllabus		**CO Mapping**
	Unit 1	**Introduction to Global Trade Institutions**	

	A	Role and Structure of WTO, IMF, and World Bank	**CO1**
	B	Functions and Policy Interventions	**CO1**
	C	Global Trade Governance and Economic Stability	**CO1**
	Unit 2	**Trade Agreements and Economic Unions**	
	A	Regional Trade Agreements (EU, NAFTA, ASEAN)	**CO2**
	B	Effects of Economic Unions on Global Trade	**CO2**
	C	Trade Disputes and International Mediation	**CO2**
	Unit 3	**International Financial Markets and Institutions**	
	A	Global Financial Markets and Their Role in Trade	**CO3**
	B	The International Monetary System and Exchange Rate Policies	**CO3**
	C	Financial Stability and Crisis Management	**CO3**
	Unit 4	**Globalization and Financial Regulation**	
	A	Impact of Globalization on Financial Markets	**CO4**
	B	Regulatory Challenges in Global Trade and Finance	**CO4**
	C	Policy Responses to Global Financial Shocks	**CO4**
	Unit 5	**Emerging Issues in Global Trade and Finance**	
	A	Digital Currencies and Their Impact on International Trade	**CO5**
	B	Sustainable Finance and Ethical Trade Practices	**CO5**
	C	The Future of Global Trade and Economic Cooperation	**CO6**
	Mode of examination	Theory	
11	Weightage Distribution	CA / MTE / ETE	
		25% / 25% / 50%	
	Readings/ Text Books	1. International Economics- Bo Södersten, Palgrave Macmillan 2. International Economics: Trade and Finance- Dominick Salvatore, John Wiley International 3. International Economics- H.G. Mannur, Vikas Publishing House 4. International Economics- M.L. Seth, Lakshmi Narain Agarwal Publishers	
	Other References	1. International Economics- M.L. Jhingan, Vrinda Publications 2. The Global Trade System: International Institutions and Economic Governance- Edward D. Mansfield & Helen V. Milner, MIT Press, 2012 3. International Financial Management- Jeff Madura, Cengage Learning, 2021	

Course Articulation Matrix

POs Cos	PO1	PO2	PO3	PO4	PO5	PO6	PSO1	PSO2	PSO3	PSO4
CO1	3	-	2	3	-	1	3	2	-	-
CO2	3	-	-	3	2	-	3	3	-	2
CO3	3	2	-	-	3	1	3	-	2	3
CO4	-	2	3	3	-	1	2	3	3	-
CO5	2	-	3	-	2	3	-	3	3	3
CO6	3	-	-	3	-	2	3	3	-	3

1-Low 2-Medium 3-High

School: SSHSS		**Batch: 2025-29**
Program: B.A./ B.A. (Hons)/ B.A. (Hons with Research)		**Current Academic Year: 2025-26**
Branch: Economics		**Semester: VI**
1	Course Code	EOT3308
2	Course Title	Economics of Money & Banking
3	Credits	4
4	Contact Hours (L-T-P)	4-0-0
	Course Status	Minor
5	Course Description	This course on Economics of Money & Banking introduces students to the fundamental principles of money, banking systems, and financial markets. It provides an understanding of the role of money in the economy, the structure of the banking system, the creation and control of money supply, and the impact of financial markets on economic activities. Through the study of monetary policy, banking regulations, financial institutions, and international monetary systems, students will gain a comprehensive understanding of how the financial sector influences both domestic and global economies. This course is designed for undergraduate students pursuing a minor in Economics, with an emphasis on real-world applications in the world of finance and banking.
6	Course Objective	The course has the following objectives: 1. Explain the evolution, functions, and theories of money, including classical and Keynesian perspectives. 2. Analyze the structure and role of commercial and central banks, focusing on credit creation, monetary policies, and banking reforms in India. 3. Examine money supply determinants, central bank regulation, and the impact of monetary policy on the economy. 4. Evaluate financial markets, interest rate determination, and the role of financial institutions in economic development.
7	Course Outcomes	On completion of this course the learners will be able to CO1: **Explain** the concept, functions, and evolution of money, including monetary standards and classical and Keynesian theories of money. CO2: **Analyze** the structure, functions, and operations of commercial and central banks, including credit creation, monetary policies, and recent banking reforms in India. CO3: **Demonstrate** the concept and determinants of money supply, its regulation by the central bank, and the impact of monetary policy on the economy. CO4: **Examine** financial markets, their instruments, interest rate

		determination, and the role of financial institutions in economic development. CO5: **Evaluate** the international monetary system, the role of global financial institutions, and the impact of international trade on money and banking. CO6: **Assess** the effects of globalization on money supply, financial markets, and the role of multinational banks during financial crises.	
8	Outline syllabus		**CO Mapping**
	Unit 1	**Introduction to Money and Banking**	
	A	Money-Meaning, Functions and Classification; Evolution of Money: Barter system and its limitations, Development of money over time, Modern forms of money and digital currencies	**CO1**
	B	Gresham's Law; Role of Money in Capitalist, Socialist and Mixed Economies; Monetary Standards -Metallic and Paper Systems of Note Issue.	**CO1**
	C	Quantity Theory of Money-Cash Transaction and Cash Balance Approaches; The Keynesian Approach.	**CO1**
	Unit 2	**Money Supply and Its Determinants**	
	A	Concepts of Money Supply: Definitions of money supply (M1, M2, M3, etc.), Relationship between money supply and economic activity, Central Bank's role in regulating money supply	**CO2**
	B	Determinants of Money Supply: Central bank policies (Open Market Operations, Discount Rate, Reserve Requirements), Commercial bank lending behavior, Public demand for money and the velocity of money	**CO2**
	C	Monetary Policy and Its Impact: Objectives of monetary policy, Tools of monetary policy: Expansionary vs. contractionary policy, Impact on inflation, unemployment, and economic growth	**CO2**
	Unit 3	**The Banking System**	
	A	Structure of the Banking System: Commercial banks: Functions and services, Central banks: Role and functions (e.g., Reserve Bank of India), Other financial institutions: Investment banks, savings and loans, and credit unions	**CO3**
	B	Quantitative and Qualitative Methods of Credit Control - Bank Rate Policy, Open Market Operations, Variable Reserve Ratio and Selective Methods; Role and Functions of the Reserve Bank of India	**CO3**
	C	Meaning and types; Functions of Commercial Banks; The process of Credit Creation-Purpose and Limitations. Liabilities and Assets of banks; Evolution of Commercial Banking in India after Independence; A Critical Appraisal of the Progress of Commercial Banking after Nationalization; Recent Reforms in Banking Sector in India.	**CO3**
	Unit 4	**Banking and Financial Markets**	
	A	Introduction to Financial Markets: Types of financial markets: Money market vs. capital market; Instruments traded in these markets: Treasury bills, bonds, stocks, etc.; Role of financial markets in economic development	**CO4**
	B	Interest Rates and the Money Market: The determination of interest rates: Demand and supply of money; The role of central	**CO4**

		banks in influencing interest rates; Types of interest rates: Nominal vs. real interest rates		
	C	The Role of Financial Institutions in the Economy: Functions of commercial banks and non-bank financial institutions, The importance of financial intermediation, Financial crises and systemic risk		**CO4**
	Unit 5	**International Money and Banking**		
	A	International Monetary System: The role of the International Monetary Fund (IMF) and World Bank, Exchange rate systems: Fixed vs. floating exchange rates, Currency crises and the role of central banks in managing them		**CO5**
	B	Global Financial Institutions and Trade: The World Bank and its role in global economic development, The Bank for International Settlements (BIS), International trade and capital flows.		**CO5**
	C	Globalization, Money, and Banking: Effects of globalization on money supply and financial markets, The role of multinational banks, Impact of global financial crises (2008 financial crisis, Covid-19 crisis) on banking		**CO6**
	Mode of examination	Theory		
11	Weightage Distribution	CA	MTE	ETE
		25%	25%	50%
	Readings/ Text Books	1. Bagchi, Amaresh (2005): Readings in Public Finance, Oxford University Press. 2. Cullis, John & Jones Philip (2009): Public Finance and Public Choice, Oxford University Press. 3. Eyler, Robert (2009): Money and Banking-An International Text , Routledge. 4. Gupta, Janak Raj (2011):Public Economics in India Theory and Practice, Atlantic. 5. Gupta, S.B(2009):Monetary Economics-Institutions, Theory & Policy, S. Chand & Company, New Delhi. 6. Head, J.C (1974): Public Goods and Public Welfare, Durham, NC, Duke University Press.		
	Other References	1. Inge Kaul, Pedro Conceicao (2006): The New Public Finance, Oxford University Press. 2. Jhingan, M.L(2012): Monetary Economics, Vrinda Publications, New Delhi. 3. Jhingan, M.L(2012): Maudrik Arthshastra, Vrinda Publications, New Delhi. 4. Johansen, Life (1965): Public Economics, Chicago: Rand Mcnally. 5. Shome Parthasarathi (2002): India's Fiscal Matters, Oxford University Press, New Delhi. 6. Uppal, R.K(2011): Money, Banking and Finance in India-Evolution & Present Structure New Century Publications.		

Course Articulation Matrix

POs / Cos	PO1	PO2	PO3	PO4	PO5	PO6	PSO1	PSO2	PSO3	PSO4
CO1	3	-	-	2	-	1	3	2	-	-
CO2	3	-	-	3	-	-	3	3	-	2
CO3	3	-	2	-	3	1	3	-	3	3
CO4	2	-	3	3	-	1	2	3	3	-
CO5	-	-	3	-	2	3	-	3	-	3
CO6	3	-	-	3	-	2	3	3	-	3

1-Low 2-Medium 3-High

School: SSHSS		**Batch: 2025-29**	
Program: B.A./ B.A. (Hons)/ B.A. (Hons with Research)		**Current Academic Year: 2025-26**	
Branch: -		**Semester: VI**	
1	Course Code	EOT3309	
2	Course Title	Digital Economics	
3	Credits	3	
4	Contact Hours	3-0-0	
	Course Status	Multidisciplinary	
5	Course Description	An increasing share of our economy is based on digital goods and services, which constitute the core of what is termed digital economy. This course will introduce the economics of the digital economy. The digital economy is characterized by transient market behavior, feedback mechanisms, international impact, many stakeholders, and technological dependence. Furthermore, the digital economy is increasingly interconnected on a global scale, transcending geographical boundaries and exerting profound impacts across international markets	
6	Course Objective	The course has the following objectives: 1. To demonstrate the structural logic of the digital economy and its impact on market power and pricing models. 2. To Analyse ethical and legal aspects of the digital economy, including recent legal rulings and developments. 3. To examine case studies to illustrate key economic concepts and business strategies in the digital domain. 4. To apply behavioral insights to understand consumer behavior differences between digital and physical markets.	
7	Course Outcomes	After completion of the course the students will be able to: CO1: **Recall** the fundamentals of digital economics, including multi-sided platforms, network effects, monopolies, and the concept of the "long tail". CO2: **Analyse** digital markets, business strategies, and innovations, and assess the stakeholder relationships in the digital economy. CO3: **Apply** market models to estimate the value of networks and understand the legal frameworks, including the Digital Markets Act and Digital Services Act. CO4: **Examine** ethical challenges and the societal impacts of the digital economy. CO5: **Evaluate** the economics of information and the influence of network effects on market dynamics. CO6: **Assess** system competition and the role of platforms in shaping the digital economy.	
8	Outline syllabus		
	Unit 1	**Introduction to Digital Economics**	
	A	Introduction to the digital economy, Fundamentals of digital economics,	**CO1**
	B	Multi-sided platforms, Network effects and positive feedbacks.	**CO1**
	C	Path dependence, Lock-in and switching costs, formation of	**CO1**

		monopolies in the digital economy, the "long tail"	
	Unit 2	**Digital Markets**	
	A	Digital Markets, stakeholders and relationships in digital markets, the layered internet model, Competition and cooperation	**CO2**
	B	Digital Business, strategy and innovation,	**CO2**
	C	Digital innovations	**CO2**
	Unit 3	**Market Models**	
	A	Business models of strategic positioning, Advanced digital economics, Estimating the value of networks, modeling of digital markets.	**CO3**
	B	Legal developments: Digital markets Act,	**CO3**
	C	Digital Services Act	**CO3**
	Unit 4	**Ethics and Challenges**	
	A	Ethical Challenges in the digital economy,	**CO4**
	B	Challenges for society,	**CO4**
	C	Challenges for ethics	**CO5**
	Unit 5	**Economics of Information**	
	A	Economics of Information,	**CO5**
	B	System Competitions, Platforms	**CO6**
	C	Network Effects	
	Mode of examination	Theory	
11	Weightage Distribution	CA / MTE / ETE	
		25% / 25% / 50%	
	Readings/ Text Books	1. Harald, J., & Audestad, J. A. (2018). Digital Economics: How Information and Communication Technology is Shaping Markets, Businesses, and Innovation. Scotts. 2. Belleflamme, P., & Peitz, M. (2015). Industrial Organization: Markets and Strategies. Cambridge: Cambridge University Press. (Chapters 20-23). 3. Church, J. R., & Ware, R. Industrial Organization: A Strategic Approach. Free download available: http://works.bepress.com/jeffrey_church/23/ 4. McAfee, R. P., Lewis, T. R., & Dale, D. J. Introduction to Economic Analysis.	
	Other References	1. Varian, H. (1997). Versioning Information Goods. Free download available: http://people.ischool.berkeley.edu/~hal/Papers/version.pdf 2. Besen, S., & Farrell, J. (1994). "Choosing How to Compete: Strategies and Tactics in Standardization." The Journal of Economic Perspectives, Vol. 8(2), pp. 117-131	

Course Articulation Matrix

POs / Cos	PO1	PO2	PO3	PO4	PO5	PO6	PSO1	PSO2	PSO3	PSO4
CO1	3	-	-	2	-	-	3	2	-	-
CO2	3	-	-	3	-	-	3	3	-	-
CO3	2	-	2	3	2	-	2	3	-	2
CO4	2	-	-	3	3	2	-	3	-	-
CO5	3	-	-	3	2	3	3	3	-	-
CO6	3	-	3	3	-	3	2	3	-	2

1-Low **2-Medium** **3-High**

School: SSHSS		**Batch: 2025-29**
Program: B.A./ B.A. (Hons)/ B.A. (Hons with Research)		**Current Academic Year: 2025-26**
Branch: -		**Semester: VI**
1	Course Code	
2	Course Title	Industry Connect
3	Credits	2
4	Contact Hours (L-T-P)	0-0-4
	Course Status	Industry Connect (Internship)
5	Course Description	This course enables students to get practical knowledge of how to do a job, various functions of an organization and will enable them to appreciate the work/job environment.
6	Course Objective	The course has the following objectives: 1. Introduce and Acquaint Students with the Concept and Significance of Summer Internship 2. Familiarize Students with functioning of various departments of organization where the students go for the internship 3. Explain the basic Structure and Content of Summer Training Report
7	Course Outcomes	CO1: **Understand** the basics of internship CO2: **Apply** the theoretical knowledge gain into the practical perspective CO3: **Examine** the functioning of various departments of organization where the students goes for the internship CO4: **Analyse** the internal and external factors affecting the business and taking the decision CO5: **Hypothesizing** the problem of the organization and reviewing it CO6: **Solvine** the problem and writing the final internship report
8	Outline syllabus	
		Guidelines for Summer Training Report
		Every student has to do minimum **four to six weeks' mandatory summer internship** in any industry/ company. All students have to submit the **details of their summer internship to their respective faculty guides** and based on student's internship, all students need to prepare summer internship project report also, which will be evaluated for 100 marks (60 internal and 40 external)
	1.	**Please consider the following points for the preparation of project report:** Topic for Project Report • The selected topic should be problem oriented as well as product, market and industry specific. • It must have the potential to make a significant research work of products or services in relation to the identified problem. • It should pertain to original and individual work performance. Exactly same work will not be accepted from students. All the same reports will be cancelled and will result in zero marking for the students.
	2.	**All students must have summer internship completion/experience certificate**

		from the organization they are joining. This certificate must be attached in the summer internship report.
	3.	The Report will consist of the following: a. Cover page on specified format b. Certificate from College, signed by the Faculty Supervisor c. Certificate from Summer Training Organization d. Preface e. Acknowledgement f. Table of Contents g. Suggested headings (You may incorporate more topics as per your learning) • About the summer training organization and the industry • Work done in the company (Students' Profile in Company) • Brief history of the organization • Organizational structure • Performance • Products/services • Competitors • SWOT analysis • Problems encountered • Solutions / Recommended • Key Learnings
	4.	The average size of Report must be 30 - 40 A-4 pages, typed in Times New Roman font size 12, with 1.5 spacing. Chapter Headings and Major Headings must be in Font Size 16 and Sub Headings in Size 14. The margin should be 1-inch on top, right and bottom sides and 1.5-inch margin on left side.
	5.	The page numbering for the pages up to and including Table of Contents should be in Roman small numbers (i.e. i, ii, iii and so on). Thereafter, starting from Part 1, pages should be numbered as 1, 2, 3 and so on. Before submitting the report to the concerned faculty supervisor students are required to check the plagiarism of the report using Turnitin software i.e. less than 10%.
	6.	In Bibliography of References, detailed reference is required for each data source, whether it is a book, journal, magazine, newspaper, government publication or a website. The format of providing reference: Book Baron Robert A., *Psychology*, Pearson Education, Fifth Edition, 2008 Journal Kahneman D and Tversky Amos., *Prospect Theory: An Analysis of Decision under Risk*, Econometrica, Volume 47, No. 2, 1979, Page 263 – 291 Magazine Money Today, October 30, 2008, *A Road Map to Retirement*, Pg 49 Newspaper Business Standard, 16 March 2009, *Regulation of Banks*, Pg 12 Website RBI Bulletin, March 2009,

		http://rbidocs.rbi.org.in/rdocs/Bulletin/PDFs/BUL0309.pdf		
	Mode of examination	Practical		
	Weightage Distribution	CA	CE	Viva
		30%	30%	40%

Course Articulation Matrix

Pos Cos	PO1	PO2	PO3	PO4	PO5	PO6	PSO1	PSO2	PSO3	PSO4
CO1	3	2	2	1	1	3	2	1	2	2
CO2	3	3	1	-	-	3	2	2	2	1
CO3	3	2	2	1	2	3	1	1	1	3
CO4	3	3	1	-	2	3	1	3	2	3
CO5	2	2	1	1	2	2	1	3	3	1
CO6	1	1	2	1	3	3	1	1	2	3

1-Low 2-Medium 3-High

School: SSHSS		**Batch: 2025-29**
Program: B.A./ B.A. (Hons)/ B.A. (Hons with Research)		**Current Academic Year: 2025-26**
Branch: Economics		**Semester: VI**
1	Course Code	EOR3302
2	Course Title	Research Based Learning-04
3	Credits	1
4	Contact Hours (L-T-P)	0-0-2
	Course Type	RBL (Project/ Practical)
5	Course Description	The course intends to impart knowledge of the basic concepts and components in Research Based Learning. The course content includes: • Publishing research paper and development of the product/process /case that the students work on during the semester to demonstrate identified problem through extensive literature. • Students work on the projects in teams with **three** students per team, and teams may form in interdisciplinary nature. • The deliverables for the projects include submission of reports on regular basis as per the rubrics. • The students also present their work at the end of the semester in the presence of external experts in the form of Written and oral communication components are intertwined with the project deliverables through required project reports and oral project presentations. • It is recommended that the all activities are to be record on regular basis and proper documents are to be maintained by students and faculty mentor. • The report should be prepared in the consultation of the faculty guide and the student should be in regular touch with the faculty guide to complete the work. • The content of the research report should be original and not copied from any other sources. To justify this, the student has to check the plagiarism of the report through Turnitin software. The plagiarism should be less than 10%. The plagiarism report has to be attached with in the research report at the end. • The student should submit the soft copy of the research report to the guide and after getting his/her approval and signature, the final report should be submitted. The report should be original and shall be submitted after checking for plagiarism. Please note the following guidelines for the preparation and

		submission of the report:	
6	Course Objective	The course has the following key objectives: 1. Ensure the synchronization and alignment of research work with defined objectives and hypothesis testing. 2. Develop the ability to format and publish research findings in a structured research paper with proper citations. 3. Organize research reports effectively by presenting literature reviews, methodologies, and analytical results. 4. Enhance research communication skills through structured report submission and final presentation.	
7	Course Outcomes	After completion of the course, students will be able to: CO1: **Apply** synchronization and alignment in research by achieving defined objectives and conducting hypothesis testing. CO2: **Develop** a structured research paper, ensuring proper citation, plagiarism compliance, and submission to journals. CO3: **Organize** the research report by presenting literature review, methodology, results, and future research scope. CO4: **Construct** a complete RBL report incorporating research findings and a published paper or acceptance letter. CO5: **Demonstrate** research outcomes through a final presentation and external evaluation.	
8	Outline syllabus		**CO Mapping**
	Unit 1	**Synchronization & Alignment in the RBL work**	
	A	All defined objectives must be achieved.	**CO1**
	B	Hypothesis testing	**CO1**
	C	Synchronization & alignment of research report with objectives.	**CO1**
	Unit 2	**Research Paper Publication from RBL Work**	
	A	Alignment of RBL work in research paper format. • Introduction (Research problem, objectives, significance) • Literature Review • Methodology • Findings & Discussion • Conclusion & Policy Implications • References & Appendices Maintain proper citation and referencing (APA/Harvard style).	**CO2**
	B	Obtainment of Plagiarism Report (below 10%)	**CO2**
	C	Submission of research paper to journals.	**CO2**
	Unit 3	**Preparation of RBL Report**	
	A	Introduction, Review of Literature, Hypothesis: Results are presented in very appropriate manner in project report.	**CO3**
	B	Result Analysis, discussion, conclusion and Future Suggestions: Results are presented in very appropriate manner in project report. Project work is well summarized and concluded. Future extensions in the project are well specified.	**CO3**

	C	Preparation of the RBL report as per the given format along with copy of published research paper or acceptance letter of publication.	**CO4**
	Unit 4	**RBL Submission & Presentation (External)**	
	A	Objectives and information Methodology of the Proposed Work: All objectives of the proposed work are well defined; Steps to be followed to solve the defined problem are clearly specified	**CO4**
	B	All outcomes/ outputs are clearly tied to proposed objectives and organized in a tight, logical fashion.	**CO5**
	C	Project demonstration /final presentation	**CO5**
	Mode of examination	CA and Viva Voce	

	Weightage Distribution	CA	CE	Viva
		30%	30%	40%

	Text book/s*	1. Shaughnessy, J. J., Zechmeister, E. B. & Zechmeister, J. (2012). Research methods in psychology. (9th ed.) NY: McGraw Hill.
	Other References	1. Acharyya, R. (Ed.), Bhattacharya, N. (Ed.). (2020). Research Methodology for Social Sciences. London: Routledge India, https://doi.org/10.4324/9780367810344 2. Elmes, D. G. (2011). Research Methods in Psychology (9thed.). Wadsworth Publishing. 3. Kloos, B., Hill, J., Thomas, E., Wandersman, Elias, M. J., & Dalton, J.H. (2012). Community Psychology: Linking Individuals and Communities. Wadsworth, Cengage Learning. Tim May (2001). Social Research: Issues, Methods and Process, 3rd edition, Open University Press 4. Miller, L.A., Lovler, R. L., & McIntire, S.A., (2013). Foundations of Psychological Testing: A practical approach. (4th Ed.). Sage publications

Course Articulation Matrix

POs / Cos	PO1	PO2	PO3	PO4	PO5	PO6	PSO1	PSO2	PSO3	PSO4
CO1	3	3	3	-	-	3	3	-	-	2
CO2	2	2	3	-	3	-	-	-	-	3
CO3	2	2	3	2	3	-	-	-	-	3
CO4	3	2	3	-	3	2	3	-	-	-
CO5	-	-	3	-	3	3	-	-	-	3

1-Low 2-Medium 3-High

SEMESTER- VII (i) (HONOURS)

Sr. No	Course Code	Course Name	L	T	P	Credits	Category
1	EOT4401	Micro Economic Theory	4	0	0	4	CC
2	EOT4402	Macro Economic Theory	4	0	0	4	CC
3	EOT4403	Economics of International Trade	4	0	0	4	CC
4	EOT4404	Public Economics: Theory & Policy	4	0	0	4	CC
5	EOT4405	Public Policy & Welfare*	4	0	0	4	Minor
6	EOP4401	Micro Economic Analysis	0	0	2	1	Core Practical
7	EOP4402	Macro Economic Analysis	0	0	2	1	Core Practical
8	EOP4403	International Trade: Policy & Practices	0	0	2	1	Core Practical
9	EOP4404	Public Economics: Policy & Practices	0	0	2	1	Core Practical
Semester 7 Credits: 20 Min : Max:							

School: SSHS		**Sharda School of Humanities & Social Sciences**
Batch:		**2025-29**
Program: B.A. (Hons)/ B.A. (Hons with Research)		**B.A. Economics**
Current Academic Year:		**2025- 26**
Branch: - Economics		**Semester: VII (i)**
1	Course Code	EOT4401
2	Course Title	**Micro Economic Theory**
3	Credits	04
4	Contact Hours (L-T-P)	4-0-0
	Course Type	Major-CC
5	Course Description	This is an advanced course in microeconomic theory. The course covers the main topics of microeconomics from consumer and producer behavior, partial and general equilibrium, and behavior under uncertainty, game theory and asymmetric information.
6	Course Objective	1. To make students understand the principles of demand, supply, and market price and quantity determination. 2. To make students examine the equity-efficiency trade-off in economics in the context of taxation. 3. To make students understand the principle of rising marginal cost, its relation to average cost and other costs, and how costs for the firm differ in the short and long runs. 4. To make students illustrate how the output and entry and exit decisions of firms in competitive markets determine the price and supply of output in the short and long runs. 5. To make students explain how prices and outputs are determined in markets characterized by just one seller (monopoly), a few sellers (oligopoly), or by many sellers of unique but similar products (monopolistic competition).
7	Course Outcomes	On completion of this course the learners will be able to **CO1**. **Define** and examine the concepts of economics from the viewpoint of choice making **CO2. Illustrate** and describe various approaches to preference identification and ordering according to the constraints of budget **C03. Identify** and analyze the different forms of the market and market structure **CO4. Analyze** and assess the general equilibrium and welfare aspects **CO5. Determine** and introduce to the basic concepts of game theory **CO6. Elaborate** and demonstrate the application of game theory
8	**Outline syllabus**	**CO**

			Mapping
	Unit 1	**Introduction to Demand Analysis and Consumer Behaviour**	
	A	Concept of Elasticities and their implications, Consumer's surplus; Engel's Law of Demand, Elementary theory of price formation demand and supply equilibrium.	**CO1**
	B	Indifference curve and their applications; Revealed preference theory, Indifference curves from Utility, Perfect Complements. Marginal Utility, Cobb-Douglas Preferences	**CO1**
	C	Hicksian revision of demand theory-Choice under uncertainty (Bernoulli and Neumann theory)	**CO1**
	Unit 2	**Theory of Costs and Production**	
	A	Cost concepts: short-run and long-run, Average and Marginal costs; Derivation of cost functions from production functions; Modern theory of cost- Engineering cost- multiproduct	**CO2**
	B	Production function: short-run and long-run; Law of variable proportions and returns to scale; Isoquants; Cobb-Douglas	**CO2**
	C	Returns to factors; Elasticity of substitution; Least cost combination of inputs; Equilibrium of the Firm – Total Revenue and Total Cost Approach and Marginal Revenue and Marginal Cost Approach	**CO2**
	Unit 3	**Market and Market Structures**	
	A	Equilibrium of the Firm and Industry under Perfect Competition, Monopoly, Monopolistic competition, Oligopoly	**CO3**
	B	Perfect competition — short run and long run equilibrium; Monopoly: short and long run equilibrium, price discrimination- Meaning and Types; Price and output determination under bilateral monopoly and multi-product equilibrium	**CO3**
	C	Monopolistic competition — Meaning and Nature, Chamberlin approaches, product differentiation, excess capacity under monopolistic; Non-collusive Oligopoly: Cournot, Bertrand, Stackelberg, Kinked demand curve; Collusive Oligopoly: Cartels and mergers.	**CO3**
	Unit 4	**General equilibrium and Welfare Economics**	
	A	General equilibrium of exchange, production and output markets	**CO4**
	B	Economic efficiency and Equity	**CO4**
	C	Utility possibility frontier, Arrow's impossibility theorem	**CO5**
	Unit 5	**An introduction to Game Theory and Applications**	
	A	Payoff matrix of a game Nash equilibrium, Mixed strategies, Prisoner's dilemma; Repeated games, sequential games	**CO5**
	B	Best response curves, mixed strategies, games of coordination	**CO6**
	C	Games of competition, coexistence and commitment;	**CO6**

		Bargaining, two player model of bargaining		
	Mode of examination	Theory		
	Weightage Distribution	CA	MTE	ETE
		25%	25%	50 %
	Text book/s*	1. Henderson J. and R.E. Quandt (1980), Microeconomic Theory: A Mathematical Approach, McGraw Hill, New Delhi. 2. Koutsoyiannis, A. (1990), Modern Microeconomics, Macmillan. 3. Lipsey, R.G. and K.A. Chrystal (1999), Principles of Economics (9th Edition), Oxford University Press, Oxford. 4. Ryan, W.J.L. (1962), Price Theory, Macmillan and CO. Limited, London.		
	Other References	1. Samuelson, P.A. and W.D. Nordhaus (1998), Economics, Tata McGraw Hill, New Delhi. 2. Stonier, A.W. and D.C. Hague (1972), A Textbook of Economic Theory, ELBS & Longman, Group, London. 3. Varian, H.R. (2000), Intermediate Microeconomics: A Modern Approach (5th Edition), East-West Press, New Delhi.		

Course Articulation Matrix

POs COs	PO1	PO2	PO3	PO4	PO5	PO6	PSO1	PSO2	PSO3	PSO4
CO1	1	3	2	2	1	2	1	2	-	1
CO2	2	2	2	2	2	-	2	2	1	-
CO3	3	2	2	-	1	3	2	1	1	2
CO4	2	2	2	3	1	-	2	1	1	-
CO5	1	3	2	2	1	3	2	2	-	1
CO6	1	3	2	2	1	3	2	2	-	1

1-Low 2-Medium 3-High

School: SSHS		**Sharda School of Humanities & Social Sciences**
Batch:		**2025-29**
Program: B.A. (Hons)/ B.A. (Hons with Research)		**B.A. Economics**
Current Academic Year:		**2025- 26**
Branch: - Economics		**Semester: VII (i)**
1	Course Code	EOT4402
12	Course Title	Macro Economic Theory
3	Credits	04
4	Contact Hours	4-0-0
	Course Status	Major-CC
5	Course Description	This course provides a comprehensive understanding of macroeconomic principles, theories, and models that explain the functioning of an economy at an aggregate level. It covers key macroeconomic indicators such as GDP, inflation, unemployment, and economic growth, along with their measurement and implications. Students will explore various macroeconomic frameworks, including new classical and new Keynesian models, to analyze business cycles, economic fluctuations, and policy responses. The course also examines the role of government policies in influencing economic stability, inflation control, and long-term growth. Additionally, advanced macroeconomic models such as the Ramsey Model and Overlapping Generations (OLG) models will be introduced to analyze intertemporal consumption, savings behavior, and intergenerational economic interactions.
6	Course Objective	1. Develop a strong foundation in macroeconomic concepts, including GDP, inflation, unemployment, and economic growth. 2. Analyze macroeconomic theories and models, including new classical, new Keynesian, and modern approaches, to understand economic fluctuations and policy implications. 3. Examine the causes and effects of business cycles and evaluate the role of government policies in economic stability, growth, and inflation. 4. Explore advanced macroeconomic models, such as the Ramsey Model and Overlapping Generations (OLG) models, to understand intertemporal consumption, savings, and intergenerational economic interactions.
7	Course Outcomes	On completion of this course the learners will be able to **CO1**. **Gain** knowledge of fundamental macroeconomic concepts, including GDP, inflation, unemployment, and economic growth. **CO2. Develo**p an understanding of new classical, new Keynesian, and modern macroeconomic theories and models. **CO3. Understand** the demand and supply of money alonwith central banking system. **CO4. Assess** the interrelationship between inflation and unemployment and assess policy responses under different expectations frameworks.

		CO5. Analyze the effectiveness of macroeconomic policies in closed and open economies and analyze international macroeconomic linkages. **CO6. Explore** Assess the effectiveness of macroeconomic policies in closed and open economies and analyze international macroeconomic linkages.	
8	**Outline syllabus**		**CO Mapping**
	Unit 1	**National Income and Accounts**	
	A	Macro Economics: Nature, Concepts and Issues, structure of Closed Economies, Measuring Performance of the Economy, Income of Nation and Accounting:	**CO1**
	B	Circular Flow of Income in two, three and four-sector economy; different forms of national income accounting – social accounting, input – output accounting, and environmental accounting,	**CO1**
	C	The Natural Rate of Unemployment Hypothesis-Adaptive Expectation and Rational Expectation models, NRU and full employment, NRU and NAIRU	**CO1**
	Unit 2	**Classical and Keynesian Models**	
	A	Classical theory: Say's Law, Quantity theory of money, Classical Dichotomy	**CO2**
	B	Keynesian revolution: Effective demand, consumption and investment functions, Multiplier and Accelerator, The Marginal Efficiency of Capital Approach; Theories of Investment. Equilibrium and Output determination using AD & AS	**CO2**
	C	Equilibrium in the goods and money markets: IS-LM Model	**CO2**
	Unit 3	**Demand for and Supply of Money**	
	A	Theories of demand for money: Fisher, Cambridge, Keynes, Friedman, Post Keynesian approaches to demand for money-Tobin (Portfolio balance approach), Baumol (investment theoretic approach), Friedman (Restatement of quantity theory of money) and Patinkin approach.	**CO3**
	B	Money supply: Measures, determinants, money multiplier	**CO3**
	C	Central banking and credit creation	**CO3**
	Unit 4	**Inflation, Unemployment and Expectations**	
	A	Inflation: types, causes, and consequences	**CO4**
	B	Phillips Curve, NAIRU, and rational expectations, Unemployment: types, measurement, and policy implications	**CO4**
	C	Social Security models under OLG.	**CO5**
	Unit 5	**Macroeconomic Policy in an Open Economy**	
	A	Balance of Payments (BoP): Structure and components; BoP equilibrium and disequilibrium; Causes and consequences of BoP imbalances	**CO5**
	B	Exchange Rate Systems: Fixed vs floating exchange rate regimes; Managed float and crawling peg systems; Demand	**CO6**

		and supply of foreign exchange; Determination of exchange rates in the short and long run; Purchasing Power Parity (PPP) and Interest Rate Parity (IRP);		
	C	The Mundell-Fleming Model (IS-LM-BP): Short-run policy analysis under fixed and flexible exchange rates; Effectiveness of fiscal and monetary policy in an open economy; Capital mobility and policy trade-offs (Impossible Trinity)		**CO6**
	Mode of examination	Theory		
	Weightage Distribution	CA	MTE	ETE
		25%	25%	50%
	Text book/s*	1. Mankiw, N. G. (2023). Macroeconomics (12th ed.). Macmillan Learning. 2. Blanchard, O. (2021). Macroeconomics (8th ed.). Pearson. 3. Romer, D. (2022). Advanced Macroeconomics (6th ed.). McGraw-Hill Education. 4. Barro, R. J., & Sala-i-Martin, X. (2004). Economic Growth (2nd ed.). MIT Press. 5. Davidson, P. (2011). Post Keynesian Macroeconomic Theory: Second Edition (2nd ed.). Edward Elgar Publishing.		
	Other References	1. Snowdon, B., & Vane, H. R. (2005). Modern Macroeconomics: Its Origins, Development and Current State. Edward Elgar Publishing. 2. Dornbusch, R., Fischer, S., & Startz, R. (2020). Macroeconomics (14th ed.). McGraw-Hill Education. 3. Sargent, T. J. (1987). Dynamic Macroeconomic Theory. Harvard University Press. 4. Heijdra, B. J. (2017). Foundations of Modern Macroeconomics (3rd ed.). Oxford University Press.		

CO PO Articulation Matrix

POs COs	PO1	PO2	PO3	PO4	PO5	PO6	PSO1	PSO2	PSO3	PSO4
CO1	3	3	2	1	3	2	2	1	3	2
CO2	2	3	1	3	2	2	2	1	1	1
CO3	1	2	2	2	3	2	2	1	1	1
CO4	2	3	2	3	1	2	3	3	2	1
CO5	2	2	3	1	3	3	2	1	3	2
CO6	3	3	3	3	3	3	3	3	3	1

1-Low 2-Medium 3-High

School: SSHS		**Sharda School of Humanities & Social Sciences**	
Batch:		**2025-29**	
Program: B.A. (Hons)/ B.A. (Hons with Research)		**B.A. Economics**	
Current Academic Year:		**2025- 26**	
Branch: - Economics		**Semester: VII (i)**	
1	Course Code	EOT4403	
2	Course Title	Economics of International Trade	
3	Credits	04	
4	Contact Hours	4-0-0	
	Course Status	Major-CC	
5	Course Description	This course provides an analysis of the economic relationship between countries covering both trade and monetary issues. The course is to introduce students to both classical and modern theories of international trade in goods and services as well as empirical research on trade. The course also concerns with the overview of balance of payment accounts and open economy income identities.	
6	Course Objective	This course aims to 1. Develop a systematic exposition of models that try to explain the composition, direction, and consequences of international trade, 2. Evaluate the determinants and effects of trade policy. 3. Examines alternative trade theories, protectionism, trade restrictions, trade policies, trade liberalization, free trade agreements 4. Focuses on the international finance, including exchange rates and interest	
7	Course Outcomes	Upon completion of this course, the students will be able to **CO1. Define** the concept of international economics and compare between alternative theories of international trade **CO2. Explain** the validity and efficiency of protectionist policies **CO3. Identify** the impact of tariffs and non-tariff barriers **CO4. Analyse** the nation's balance of payment account and international trade pattern **CO5. Explain** the meaning, pattern and trends of foreign direct investment and exchange rate **CO6. Discuss** the working of international financial institutions	
8	**Outline syllabus**		**CO Mapping**
	Unit 1	**International Trade Theory**	
	A	An introduction to international economics.	**CO1**

	B	Absolute Cost Advantage Theory, Comparative Cost Advantage Theory, Factor Endowment Theory, Leontief Paradox, Implications of Trade Theories		**CO1**
	C	New approaches to trade theory: Causes of Emergence and Measurement of Intra-industry Trade.		**CO1**
	Unit 2	**International Trade Policy**		
	A	Free Trade vs Protection, Meaning, case for and against.		**CO2**
	B	Concept of trade barriers, Tariff: Meaning and types, Partial Equilibrium Analysis of tariff		**CO3**
	C	Non Trade barriers, Effect of non-trade barriers, Theory of Custom Union		**CO3**
	Unit 3	**International Trade Patterns and Balance of Payments**		
	A	World Trade and Overview, Terms of Trade		**CO4**
	B	Balance of Payments: Concept and Components, Causes of Disequilibrium, Absorption and Monetary Approach		**CO4**
	C	India's BOP and Trade		**CO4**
	Unit 4	**Foreign Direct Investment and Exchange rate**		
	A	Meaning and types of FDI		**CO5**
	B	Trends and Patterns of Foreign Direct Investment		**CO5**
	C	Fixed and Flexible Exchange Rate		**CO5**
	Unit 5	**International Financial Institutions**		
	A	International Monetary System		**CO6**
	B	Theory of foreign exchange market; exchange trading, arbitrage and market hedging		**CO6**
	C	Role of International organizations: World Trade Organization, International Monetary Fund, UNCTAD		**CO6**
	Mode of examination	Theory		
	Weightage Distribution	CA	MTE	ETE
		25%	25%	50%
	Text book/s*	1. Robert C. Feenstra and Alan M. Taylor(2014),*International Economics*, New York. Palgrave MacMillan. 2. Salvatore Dominic (2013), *International Economics*, US,Wiley.		
	Other References	1. Appleyard and Field (2013), International Economics, New York, McGraw Hill. 2. Krugman, Obstfeld and Melitz (2014), International Economics: Theory and Policy, New Delhi, Pearson. 3. Philip King and Sharmila King (2009), International Economics, Globalization, and Policy: A Reader, New Delhi, McGraw Hill. 4. Deardorff, Alan V. (2003) "Introduction to comparative advantage", mimeo, University of Michigan, available from http://www-personal.umich.edu/~alandear/writings/compadv3.pdf		

		5. R5. Krugman, Paul (1996), "Ricardo's difficult idea", paper for Manchester conference on free trade available from http://web.mit.edu/krugman/www/ricardo.htm. 6. Samuelson, Paul (2004), "Where Ricardo and Mill rebut and confirm arguments of mainstream economists supporting globalization", Journal of Economic Perspectives 18(3): 35-146, available from http://pubs.aeaweb.org/doi/pdfplus/10.1257/0895330042162403 7. Jones, R. W. (2012), "The specific factors model", mimeo, University of Rochester, available from http://www.econ.rochester.edu/people/jones/Specific_Factors_Model.pdf 8. Freeman, Richard B. (2006), "People flows in globalization", Journal of Economic Perspectives 20(2): 145-170, available from http://pubs.aeaweb.org/doi/pdfplus/10.1257/jep.20.2.145	

CO PO Articulation Matrix

POs COs	PO1	PO2	PO3	PO4	PO5	PO6	PSO1	PSO2	PSO3	PSO4
CO1	2	1	1	-	2	2	1	-	2	3
CO2	2	1	1	-	2	2	1	-	2	3
CO3	2	1	2	-	2	2	1	-	2	3
CO4	2	1	1	-	2	2	1	-	2	3
CO5	2	1	1	-	2	2	1	-	2	3
CO6	2	1	3	-	2	2	1	-	2	3

1-Low 2-Medium 3-High

School: SSHS		**Sharda School of Humanities & Social Sciences**	
Batch:		**2025-29**	
Program: B.A. (Hons)/ B.A. (Hons with Research)		**B.A. Economics**	
Current Academic Year:		**2025- 26**	
Branch: - Economics		**Semester: VII (i)**	
1	Course Code	EOT4404	
2	Course Title	Public Economics: Theory & Policy	
3	Credits	04	
4	Contact Hours	4-0-0	
	Course Status	Major-CC	
5	Course Description	This course explores the role of government in economic activities, focusing on market failures, externalities, public goods, taxation, public expenditure, debt management, and fiscal federalism. It also introduces students to research methodologies in public finance, enabling them to develop research proposals and policy recommendations.	
6	Course Objective	**This course aims to:** 1. To introduce the importance of externalities and public goods in the economy. 2. To prepare students for quantitative and qualitative research in public economics. 3. To develop an understanding of public expenditure, taxation, and fiscal federalism. 4. To provide insights into drafting research proposals with an interdisciplinary approach.	
7	Course Outcomes	On completion of this course the learners will be able to **CO1. Define** basic concepts of public economics like externalities, public goods, and government intervention. **CO2. Explain** public expenditure theories and their implications. **CO3. Identify** various taxation principles, base of tax burden distribution, and basics fiscal policies. **CO4. Analyze** and understand the basic concepts of public debt and policy issues. **CO5. Assess** fiscal federalism, resource allocation, and state financing. **CO6. Compose** the trend of public expenditure, public debt, and taxation policies in India.	
8	**Outline syllabus**		**CO Mapping**
	Unit 1	**Importance of Public Utilities and Goods**	
	A	Public Finance: Meaning and scope; Public vs. Private Goods.	**CO1**
	B	Market failure and the role of government; National, regional,	**CO1**

		and global public goods.	
	C	Public choice theory, theory of voting, and median voter theorem.	**CO1**
	Unit 2	**Public Policy and Public Expenditure**	
	A	Public expenditure: Principles, canons, causes, and growth; Wagner's Law.	**CO2**
	B	Peacock-Wiseman Hypothesis, welfare economics, and public sector economics.	**CO2**
	C	Social cost-benefit analysis and public investment criteria.	**CO2**
	Unit 3	**Public Revenue and Taxation**	
	A	Sources of public revenue of Central State and Local Government	**CO3**
	B	Tax burden division, ability-to-pay and benefit approaches.	**CO3**
	C	Taxable capacity, characteristics of a good tax system, theory of optimal taxation.	**CO3**
	Unit 4	**Public Debt and Policy Issues**	
	A	Public debt: Objectives, sources, burden, and management principles.	**CO4**
	B	Fiscal policy: Interdependence with monetary policy, budget deficits.	**CO4**
	C	Balanced budget multiplier, crowding-out effect, and economic stabilization.	**CO4**
	Unit 5	**Fiscal Federalism and International Public Finance**	
	A	Fiscal federalism: Principles, resource transfers, intergovernmental grants.	**CO5**
	B	IMF, World Bank, IDA, ADB, BRICS Bank, and international fiscal policies.	**CO5**
	C	Trends in public expenditure, public debt, and taxation policies in India.	**CO6**
	Mode of examination	Theory	
	Weightage Distribution	CA / MTE / ETE	
		25% / 25% / 50%	
	Text book/s*	1. Musgrave, R.A. & Musgrave, P.B. (1976). Public Finance in Theory and Practice. McGraw Hill, Kogakusha, Tokyo. 2. Stiglitz, J.E. (1986). Economics of the Public Sector. Norton, New York. 3. Jha, R. (1998). Modern Public Economics. Routledge, London. 4. Gruber, J. (2009). Public Finance and Public Policy. Worth Publishers, New York. 5. Srivastava, D.K. & Shankar, U. (2012). Development and Public Finance: Essays in Honour of Raja J. Chelliah. Sage India, New Delhi.	

	Other References	1. Auerbach, A.J. & Feldstern, M. (Eds.) (1985). Handbook of Public Economics, Vol. I. North Holland, Amsterdam. 2. Buchanan, J.M. (1970). The Public Finances. Richard D. Irwin, Homewood. 3. Peacock, A. & Shaw, G.K. (1976). The Economic Theory of Fiscal Policy. George Allen and Unwin, London. 4. Srivastava, D.K. (Ed.) (2000). Fiscal Federalism in India. Har-Anand Publications Ltd., New Delhi. 5. Mundle, S. (1999). Public Finance Policy: Issues for India. Oxford University Press, New Delhi. 6. Ghosh, A. & Ghosh, C. (2014). Public Finance. PHI Learning Private Limited, Delhi. 7. Reports of various Finance Commissions.	

Course Articulation Matrix

POs COs	PO1	PO2	PO3	PO4	PO5	PO6	PSO1	PSO2	PSO3	PSO4
CO1	3	3	2	-	2	1	2	-	2	3
CO2	2	3	3	2	2	2	2	3	3	3
CO3	3	2	3	2	3	2	3	3	2	3
CO4	3	2	3	3	3	3	3	3	3	3
CO5	3	3	3	2	3	3	3	2	3	3
CO6	2	3	2	3	2	3	2	3	2	3

1-Low 2-Medium 3-High

School: SSHSS		**Batch: 2025-29**	
Program: B.A. (Hons)		**Current Academic Year: 2025-26**	
Branch: Economics		**Semester: VII (i)**	
1	Course Code	EOT4405	
2	Course Title	**Public Policy & Welfare***	
3	Credits	4	
4	Contact Hours (L-T-P)	4-0-0	
	Course Type	Minor	
5	Course Description	This course aims at providing conceptual ideas about public policy making at global level. As the complex realm of public policy making at global level and national level are closely related to each other, it is very important to have idea about the issues involved in making of public policies. Various types of approaches & models of public policies, existing in the world will be the background for students to understand the theoretical issues as well as it's practical application.	
6	Course Objective	This course intends to achieve the following objectives: 1. Analyse the need for public policy 2. Comprehend some of the essential analytical concepts, theories and analytical tools of policy analysis 3. Explore many of these paradoxes of public policy research by reviewing various policies such as welfare, health care, labour market etc 4. Evaluate intergovernmental fiscal relations guiding financial relations between centre, state and local government	
7	Course Outcomes	The student will be able to: CO1: **Explain** the concept of public policy and various facets related to it CO2: **Examine** the role of government and governmental institutions in public policy making CO3: **Critically** analyze intergovernmental relations and its impact on policy designing CO4: **Evaluate** the underlying political, economic rationale behind particular public policy, be it poverty, health, education, rural development etc. CO5: **Make use of** and concise arguments about welfare theory and cost-benefit analysis CO6: **Apply** the above knowledge to find out the problems associated with making and implementation of a particular public policy.	
	Course Outline		**CO Mapping**
	Unit 1	**Public policy and policy analysis**	
	A	Public policy: Definition, nature, key concepts	**CO1**
	B	Economic, Social and Political context of public policy	**CO1**
	C	Instruments of Public Policy Analysis, Need for public policy.	**CO1**
	Unit 2	**Role of Government institutions in policy making**	
	A	Role of government and governance, formal institutions	**CO2**

	B	Federalism: Centre-State fiscal relations		**CO2**
	C	Informal institutions and actors		**CO2**
	Unit 3	**Rationale for public policy**		
	A	Income distribution and welfare programmes, taxation and tax reform		**CO3**
	B	Market mechanisms, government failure and market failure		**CO3**
	C	Social security measures, social assistance and social insurance, regulation.		**CO4**
	Unit 4	**Theories and approaches to public policy**		
	A	Welfarism; social choice theory; individual interests and collective action; collective action failure		**CO4**
	B	structural, political and institutional theory; game-theory		**CO5**
	C	cost-benefit analysis; cost-effectiveness analysis; efficiency, equity, ethics and values		**CO5**
	Unit 5	**Process of policy making**		
	A	Agenda setting and framing, policy design, policy formulation, roles and working with sources		**CO5**
	B	rationales for public policy, market policies, non-market policies, strategies, adoption, implementation, policy evaluation		**CO6**
	C	limits of policy making, policy change, NITI Ayog- Roles and responsibilities		**CO6**
	Mode of examination	Theory		
	Weightage Distribution	CA	MTE	ETE
		25%	25%	50%
	Readings Text book/s*	1. Just, Richard E., Darrell L. Hueth & Andrew Schmitz. (2004). The Welfare Economics of Public Policy: A Practical Approach to Project and Policy Evaluation, Cheltenham,,UK: Edward Elgar. 2. Knill, Christoph & Jale Tosun. (2012). Public Policy: A New Introduction. Hampshire: Palgrave Macmillan		
	Other References	1. Kraft, Michael E. & Furlong, Scott R. (2021). Public Policy: Politics, Analysis, and Alternatives (7th Edition),Thousand Oaks: Sage. 2. Lipsky, Michael. (2010), Street-Level Bureaucracy: Dilemmas of the Individual in Public Services., New York: Russell Sage Foundation. 3. Mathur, Kuldeep. (2015). Public Policy and Politics in India: How Institutions Matter., New Delhi: Oxford University Press. 4. Moran, Michael, Martin Rein and Robert E. Goodin (Eds). (2006). The Oxford Handbook of Public Policy., Oxford: Oxford University Press. 5. Stone, Deborah. (1984)., The Disabled State., Hampshire: Macmillan. 6. Stone, Deborah. (2012). Palicy paradox: The Art of Political Decision Making (3 rd Ed)., New York: W.W. Norton & Company. 7. Weimer, David L. & Aidan R. Vining. (2016). Policy Analysis: Concepts and Practice., Oxon: Routledge 8. Winston, Clifford (2006). Government Failure versus Market Failure: Microeconomics Policy Research and Government Performance., Washington, D.C.: AEI-Brookings Joint Center for Regulatory Studies,		

		the American Enterprise Institute for Public Policy Research.

Course Articulation Matrix

POs / Cos	PO1	PO2	PO3	PO4	PO5	PO6	PSO1	PSO2	PSO3	PSO4
CO1	3	-	-	3	2	-	3	3	-	2
CO2	3	-	2	3	-	-	2	3	-	-
CO3	3	-	3	3	2	-	3	3	-	3
CO4	3	-	3	3	3	2	3	3	-	3
CO5	2	-	-	3	3	2	3	3	-	2
CO6	2	-	-	-	3	3	-	3	-	2

1-Low 2-Medium 3-High

School: SSHS		**Sharda School of Humanities & Social Sciences**
Batch:		**2025-29**
Program: B.A. (Hons)/ B.A. (Hons with Research)		**B.A. Economics**
Current Academic Year:		**2025- 26**
Branch: - Economics		**Semester: VII (i)**
1	Course Code	EOP4401
2	Course Title	**Micro Economic Analysis**
3	Credits	01
4	Contact Hours (L-T-P)	0-0-2
	Course Type	Core Practical
5	Course Description	This is an analytical part of advanced course in microeconomic theory. The course covers the main topics of microeconomics from consumer and producer behavior, partial and general equilibrium, and behavior under uncertainty, game theory and asymmetric information.
6	Course Objective	1. To make students understand the principles of demand, supply, and market price and quantity determination. 2. To make students examine the equity-efficiency trade-off in economics in the context of taxation. 3. To make students understand the principle of rising marginal cost, its relation to average cost and other costs, and how costs for the firm differ in the short and long runs. 4. To make students illustrate how the output and entry and exit decisions of firms in competitive markets determine the price and supply of output in the short and long runs. 5. To make students explain how prices and outputs are determined in markets characterized by just one seller (monopoly), a few sellers (oligopoly), or by many sellers of unique but similar products (monopolistic competition).
7	Course Outcomes	On completion of this course the learners will be able to **CO1**. **Define** and examine the concepts of economics from the viewpoint of choice making **CO2. Illustrate** and describe various approaches to preference identification and ordering according to the constraints of budget **C03. Identify** and analyze the different forms of the market and market structure **CO4. Analyze** and assess the general equilibrium and welfare aspects **CO5. Determine** and introduce to the basic concepts of game theory **CO6. Elaborate** and demonstrate the application of game theory
8	**Outline syllabus**	**CO**

				Mapping
	Unit 1	**Demand Analysis and Consumer Behaviour**		
	A	Calculation and interpretation of price, income, **and cross elasticities** using datasets.		**CO1**
	B	Plotting and analysis of indifference **curves** and budget constraints		**CO1**
	C	Simulating consumer equilibrium. Application of Bernoulli's utility theory in decision-making under uncertainty		**CO1**
	Unit 2	**Theory of Costs and Production**		
	A	Estimation of short-run and long-run cost curves using hypothetical/real data.		**CO2**
	B	Derivation of cost functions from production functions (Cobb-Douglas). Plotting isoquants and identifying least-cost input combinations.		**CO2**
	C	Calculation of returns to scale and elasticity of substitution. Analysis of firm's equilibrium using TR-TC and MR-MC approaches.		**CO2**
	Unit 3	**Market and Market Structures**		
	A	Comparative analysis of market outcomes under Perfect Competition and Monopoly.		**CO3**
	B	Simulation of price discrimination under Monopoly.		**CO3**
	C	Case study analysis of real-world oligopolistic behavior (e.g., telecom sector)		**CO3**
	Unit 4	**General equilibrium and Welfare Economics**		
	A	Construction of Edgeworth Box and finding general equilibrium.		**CO4**
	B	Discussion-based activity on equity-efficiency trade-off.		**CO4**
	C	Critical evaluation of Arrow's Impossibility Theorem using real-world electoral systems.		**CO5**
	Unit 5	**Game Theory Applications**		
	A	Construction and analysis of payoff matrices; identification of Nash equilibria.		**CO5**
	B	Practical applications of coordination games (e.g., traffic rules, tech adoption).		**CO6**
	C	Case-based group exercise on bargaining solutions using two-player models.		**CO6**
	Mode of examination	Practical		
	Weightage Distribution	CA	CE	Viva
		30%	30%	40 %
	Text book/s*	1. Henderson J. and R.E. Quandt (1980), Microeconomic Theory: A		

		Mathematical Approach, McGraw Hill, New Delhi. 2. Koutsoyiannis, A. (1990), Modern Microeconomics, Macmillan. 3. Lipsey, R.G. and K.A. Chrystal (1999), Principles of Economics (9th Edition), Oxford University Press, Oxford. 4. Ryan, W.J.L. (1962), Price Theory, Macmillan and CO. Limited, London.
	Other References	1. Samuelson, P.A. and W.D. Nordhaus (1998), Economics, Tata McGraw Hill, New Delhi. 2. Stonier, A.W. and D.C. Hague (1972), A Textbook of Economic Theory, ELBS & Longman, Group, London. 3. Varian, H.R. (2000), Intermediate Microeconomics: A Modern Approach (5th Edition), East-West Press, New Delhi.

Course Articulation Matrix

POs COs	PO1	PO2	PO3	PO4	PO5	PO6	PSO1	PSO2	PSO3	PSO4
CO1	1	3	2	2	1	2	1	2	-	1
CO2	2	2	2	2	2	-	2	2	1	-
CO3	3	2	2	-	1	3	2	1	1	2
CO4	2	2	2	3	1	-	2	1	1	-
CO5	1	3	2	2	1	3	2	2	-	1
CO6	1	3	2	2	1	3	2	2	-	1

1-Low 2-Medium 3-High

School: SSHS		**Sharda School of Humanities & Social Sciences**
Batch:		**2025-29**
Program: B.A. (Hons)/ B.A. (Hons with Research)		**B.A. Economics**
Current Academic Year:		**2025- 26**
Branch: - Economics		**Semester: VII (i)**
1	Course Code	EOP4402
12	Course Title	Macro Economic Analysis
3	Credits	01
4	Contact Hours	0-0-2
	Course Status	Core Practical
5	Course Description	This course provides a comprehensive understanding of application pf macroeconomic principles, theories, and models that explain the functioning of an economy at an aggregate level. It covers key macroeconomic indicators such as GDP, inflation, unemployment, and economic growth, along with their measurement and implications. Students will explore various macroeconomic frameworks, including new classical and new Keynesian models, to analyze business cycles, economic fluctuations, and policy responses. The course also examines the role of government policies in influencing economic stability, inflation control, and long-term growth. Additionally, advanced macroeconomic models such as the Ramsey Model and Overlapping Generations (OLG) models will be introduced to analyze intertemporal consumption, savings behavior, and intergenerational economic interactions.
6	Course Objective	1. Develop a strong foundation in macroeconomic concepts, including GDP, inflation, unemployment, and economic growth. 2. Analyze macroeconomic theories and models, including new classical, new Keynesian, and modern approaches, to understand economic fluctuations and policy implications. 3. Examine the causes and effects of business cycles and evaluate the role of government policies in economic stability, growth, and inflation. 4. Explore advanced macroeconomic models, such as the Ramsey Model and Overlapping Generations (OLG) models, to understand intertemporal consumption, savings, and intergenerational economic interactions.
7	Course Outcomes	On completion of this course the learners will be able to **CO1**. **Gain** knowledge of fundamental macroeconomic concepts, including GDP, inflation, unemployment, and economic growth. **CO2. Develo**p an understanding of new classical, new Keynesian, and modern macroeconomic theories and models. **CO3. Understand** the demand and supply of money alonwith central banking

		system. **CO4. Assess** the interrelationship between inflation and unemployment and assess policy responses under different expectations frameworks. **CO5. Analyze** the effectiveness of macroeconomic policies in closed and open economies and analyze international macroeconomic linkages. **CO6. Explore** Assess the effectiveness of macroeconomic policies in closed and open economies and analyze international macroeconomic linkages.	
8	**Outline syllabus**		**CO Mapping**
	Unit 1	**National Income and Accounts**	
	A	• Use CSO or MOSPI data to calculate GDP at factor cost and market prices using expenditure, income, and production approaches. Compare trends over 5 years.	**CO1**
	B	• Draw and simulate a two-, three-, and four-sector model using software (Excel or Canva). • Analyze the effect of leakages and injections (taxes, savings, investments, exports/imports).	**CO1**
	C	• Case study: Green GDP and environmental cost in India.	**CO1**
	Unit 2	**Classical and Keynesian Models**	
	A	• Debate activity: Say's Law vs Keynesian Demand Theory using historical economic examples (e.g., Great Depression). • Identify situations where each theory holds.	**CO2**
	B	• Use Excel or Python to graph the Aggregate Demand and Aggregate Supply curves. • Show how shocks (tax cut, inflation, oil price) affect output and price level.	**CO2**
	C	• Solve and graph the IS-LM equilibrium using assumed values for consumption, investment, interest rates, etc. • Observe how monetary and fiscal policies shift the curves.	**CO2**
	Unit 3	**Demand for and Supply of Money**	
	A	• Create a comparison chart of Fisher, Keynes, Friedman, Tobin, Baumol, and Post-Keynesian approaches. • Highlight differences in assumptions, variables, and policy relevance.	**CO3**
	B	• Download data from RBI's Handbook of Statistics. • Graph and interpret trends in M1, M2, M3 over the last 10 years.	**CO3**
	C	• Simulate bank credit creation using Excel: • Start with a base deposit, apply reserve ratios, and	**CO3**

		calculate the money multiplier effect.	
	Unit 4	**Inflation, Unemployment and Expectations**	
	A	• Use CPI and WPI data from RBI or MOSPI. • Calculate inflation rates over different time periods and compare trends.	**CO4**
	B	• Plot the Phillips Curve using data on inflation and unemployment in India from 2000 to 2023. • Discuss if the relationship holds true in the Indian context.	**CO4**
	C	• Estimate NAIRU from secondary sources and calculate the unemployment gap. • Discuss policy implications when actual unemployment is above or below NAIRU.	**CO5**
	Unit 5	**Macroeconomic Policy in an Open Economy**	
	A	• Use India's BoP data from RBI. • Identify trends in current account, capital account, and errors & omissions. • Explain periods of deficit/surplus.	**CO5**
	B	• Collect exchange rate data (₹ vs USD, Euro, etc.).	**CO6**
	C	• Analyze India's policy responses to capital inflows/outflows. • Simulate how India manages the Impossible Trinity using real-world policy examples.	**CO6**
	Mode of examination	Practical	
	Weightage Distribution	CA: 30% / CE: 30% / Viva: 40%	
	Text book/s*	1. Mankiw, N. G. (2023). Macroeconomics (12th ed.). Macmillan Learning. 2. Blanchard, O. (2021). Macroeconomics (8th ed.). Pearson. 3. Romer, D. (2022). Advanced Macroeconomics (6th ed.). McGraw-Hill Education. 4. Barro, R. J., & Sala-i-Martin, X. (2004). Economic Growth (2nd ed.). MIT Press. 5. Davidson, P. (2011). Post Keynesian Macroeconomic Theory: Second Edition (2nd ed.). Edward Elgar Publishing.	
	Other References	1. Snowdon, B., & Vane, H. R. (2005). Modern Macroeconomics: Its Origins, Development and Current State. Edward Elgar Publishing. 2. Dornbusch, R., Fischer, S., & Startz, R. (2020). Macroeconomics (14th ed.). McGraw-Hill Education. 3. Sargent, T. J. (1987). Dynamic Macroeconomic Theory. Harvard University Press.	

		4. Heijdra, B. J. (2017). Foundations of Modern Macroeconomics (3rd ed.). Oxford University Press.

CO PO Articulation Matrix

POs COs	PO1	PO2	PO3	PO4	PO5	PO6	PSO1	PSO2	PSO3	PSO4
CO1	3	3	2	1	3	2	2	1	3	2
CO2	2	3	1	3	2	2	2	1	1	1
CO3	1	2	2	2	3	2	2	1	1	1
CO4	2	3	2	3	1	2	3	3	2	1
CO5	2	2	3	1	3	3	2	1	3	2
CO6	3	3	3	3	3	3	3	3	3	1

1-Low 2-Medium 3-High

School:		**Sharda School of Humanities & Social Sciences**	
Batch:		**2025-27**	
Program:		**MA Economics**	
Current Academic Year:		**2025- 26**	
Branch: -		**Semester: VII (i)**	
1	Course Code	EOP4403	
2	Course Title	International Trade: Policy & Practices	
3	Credits	01	
4	Contact Hours	0-0-2	
	Course Status	Core Practical	
5	Course Description	This course provides an analysis based on empirical scenario of the economic relationship between countries covering both trade and monetary issues. The course is to introduce students to both classical and modern theories of international trade in goods and services as well as empirical research on trade. The course also concerns with the overview of balance of payment accounts and open economy income identities.	
6	Course Objective	This course aims to 1. Develop a systematic exposition of models that try to explain the composition, direction, and consequences of international trade, 2. Evaluate the determinants and effects of trade policy. 3. Examines alternative trade theories, protectionism, trade restrictions, trade policies, trade liberalization, free trade agreements 4. Focuses on the international finance, including exchange rates and interest	
7	Course Outcomes	Upon completion of this course, the students will be able to **CO1. Define** the concept of international economics and compare between alternative theories of international trade **CO2. Explain** the validity and efficiency of protectionist policies **CO3. Identify** the impact of tariffs and non-tariff barriers **CO4. Analyse** the nation's balance of payment account and international trade pattern **CO5. Explain** the meaning, pattern and trends of foreign direct investment and exchange rate **CO6. Discuss** the working of international financial institutions	
8	**Outline syllabus**		**CO Mapping**
	Unit 1	**International Trade Theory**	
	A	Visual comparison of Absolute vs Comparative Advantage using numerical examples.	**CO1**
	B	Case analysis of Factor Endowment Theory and Leontief Paradox using real data.	**CO1**
	C	Create charts to measure and visualize Intra-industry Trade	**CO1**

		Index using trade data of select countries.	
	Unit 2	**International Trade Policy**	
	A	Debate or roleplay on Free Trade vs Protectionism using real country examples.	**CO2**
	B	iagrammatic analysis of Tariff Effects using Partial Equilibrium Models.	**CO3**
	C	Case studies on Non-Tariff Barriers (e.g., quotas, subsidies, standards).	**CO3**
	Unit 3	**International Trade Patterns and Balance of Payments**	
	A	Time series charting of World Trade Growth using WTO/World Bank data.	**CO4**
	B	Analysis of Balance of Payments Components using IMF/World Bank data.	**CO4**
	C	Case study presentation: India's BOP crisis and recovery (1991 & recent years).	**CO4**
	Unit 4	**Foreign Direct Investment and Exchange rate**	
	A	Compilation and graphical representation of FDI trends in India and globally.	**CO5**
	B	Spreadsheet assignment: Correlation between exchange rate movement and FDI inflows.	**CO5**
	C	Trend Analysis of FII in India	**CO5**
	Unit 5	**International Financial Institutions**	
	A	Flowchart explaining the evolution of the International Monetary System (Gold Standard to Bretton Woods to present).	**CO6**
	B	Group exercise: Simulate foreign exchange transactions including spot rate, arbitrage, and hedging scenarios.	**CO6**
	C	Brief presentations on functions and roles of IMF, WTO, and UNCTAD in real-world trade and development.	**CO6**
	Mode of examination	CA & Viva	
	Weightage Distribution	CA: 30% / CE: 30%	Viva: 40%
	Text book/s*	1. Robert C. Feenstra and Alan M. Taylor(2014),*International Economics*, New York. Palgrave MacMillan. 2. Salvatore Dominic (2013), *International Economics*, US,Wiley.	
	Other References	1. Appleyard and Field (2013), International Economics, New York, McGraw Hill. 2. Krugman, Obstfeld and Melitz (2014), International Economics: Theory and Policy, New Delhi, Pearson. 3. Philip King and Sharmila King (2009), International Economics, Globalization, and Policy: A Reader, New Delhi, McGraw Hill. 4. Deardorff, Alan V. (2003) "Introduction to comparative advantage", mimeo, University of Michigan, available from	

		http://www-personal.umich.edu/~alandear/writings/compadv3.pdf 5. R5. Krugman, Paul (1996), "Ricardo's difficult idea", paper for Manchester conference on free trade available from http://web.mit.edu/krugman/www/ricardo.htm. 6. Samuelson, Paul (2004), "Where Ricardo and Mill rebut and confirm arguments of mainstream economists supporting globalization", Journal of Economic Perspectives 18(3): 35-146, available from http://pubs.aeaweb.org/doi/pdfplus/10.1257/089533004216 2403 7. Jones, R. W. (2012), "The specific factors model", mimeo, University of Rochester, available from http://www.econ.rochester.edu/people/jones/Specific_Factors_Model.pdf 8. Freeman, Richard B. (2006), "People flows in globalization", Journal of Economic Perspectives 20(2): 145-170, available from http://pubs.aeaweb.org/doi/pdfplus/10.1257/jep.20.2.145	

CO PO Articulation Matrix

POs COs	PO1	PO2	PO3	PO4	PO5	PO6	PSO1	PSO2	PSO3	PSO4
CO1	2	1	1	-	2	2	1	-	2	3
CO2	2	1	1	-	2	2	1	-	2	3
CO3	2	1	2	-	2	2	1	-	2	3
CO4	2	1	1	-	2	2	1	-	2	3
CO5	2	1	1	-	2	2	1	-	2	3
CO6	2	1	3	-	2	2	1	-	2	3

1-Slight (Low) **2-Moderate (Medium)** **3-Substantial (High)**

School:		**Sharda School of Humanities & Social Sciences**	
Batch :		**2025-27**	
Program:		**MA Economics**	
Current Academic Year:		**2025-26**	
Branch: -		**Semester: VII (i)**	
1	Course Code	EOP4404	
2	Course Title	Public Economics: Policy & Practices	
3	Credits	01	
4	Contact Hours	0-0-2	
	Course Status	Core Practical	
5	Course Description	This course explores the application part of the role of government in economic activities, focusing on market failures, externalities, public goods, taxation, public expenditure, debt management, and fiscal federalism. It also introduces students to research methodologies in public finance, enabling them to develop research proposals and policy recommendations.	
6	Course Objective	**This course aims to:** 1. To introduce the importance of externalities and public goods in the economy. 2. To prepare students for quantitative and qualitative research in public economics. 3. To develop an understanding of public expenditure, taxation, and fiscal federalism. 4. To provide insights into drafting research proposals with an interdisciplinary approach.	
7	Course Outcomes	On completion of this course the learners will be able to **CO1. Define** basic concepts of public economics like externalities, public goods, and government intervention. **CO2. Explain** public expenditure theories and their implications. **CO3. Identify** various taxation principles, base of tax burden distribution, and basics fiscal policies. **CO4. Analyze** and understand the basic concepts of public debt and policy issues. **CO5. Assess** fiscal federalism, resource allocation, and state financing. **CO6. Compose** the trend of public expenditure, public debt, and taxation policies in India.	
8	**Outline syllabus**		**CO Mapping**
	Unit 1	**Importance of Public Utilities and Goods**	
	A	Identify and categorize 5 real-world goods as either public or private. Explain why each falls into its respective category.	**CO1**
	B	To analyze market failure and the government's role in public goods provision.	**CO1**
	C	Simulate a voting scenario where students choose a public	**CO1**

		policy. Use the median voter theorem to predict the outcome.	
	Unit 2	**Public Policy and Public Expenditure**	
	A	Use recent Union Budget data to analyze public expenditure trends across sectors like education, healthcare, etc.	**CO2**
	B	Apply the Peacock-Wiseman hypothesis and understand welfare economics in the context of public expenditure.	**CO2**
	C	Choose a public project (e.g., infrastructure, healthcare) and perform a social cost-benefit analysis.	**CO2**
	Unit 3	**Public Revenue and Taxation**	
	A	Create a comparative chart or table showing the revenue sources for Central, State, and Local Governments in India.	**CO3**
	B	Select a tax system (e.g., income tax) and analyze it through the lens of the ability-to-pay and benefit approaches.	**CO3**
	C	Critical analysis of the tax system and recommendations for improvement.	**CO3**
	Unit 4	**Public Debt and Policy Issues**	
	A	Analyze the public debt levels of India using government data and discuss its sources, burden, and management strategies.	**CO4**
	B	Use recent fiscal data to analyze India's budget deficit and the impact on monetary policy.	**CO4**
	C	Study and simulate a balanced budget multiplier scenario and the crowding-out effect using economic models.	**CO4**
	Unit 5	**Fiscal Federalism and International Public Finance**	
	A	Analyze the fiscal relations between the Central and State governments in India, focusing on resource transfers and intergovernmental grants.	**CO5**
	B	Choose one of the institutions (IMF, World Bank, etc.) and analyze its impact on India's public finance.	**CO5**
	C	Use government data to study trends in public expenditure, public debt, and taxation over the past decade.	**CO6**
	Mode of examination	CA & Viva	
	Weightage Distribution	CA: 30% / CE: 30%	Viva: 40%
	Text book/s*	1. Musgrave, R.A. & Musgrave, P.B. (1976). Public Finance in Theory and Practice. McGraw Hill, Kogakusha, Tokyo. 2. Stiglitz, J.E. (1986). Economics of the Public Sector. Norton, New York. 3. Jha, R. (1998). Modern Public Economics. Routledge, London. 4. Gruber, J. (2009). Public Finance and Public Policy. Worth Publishers, New York. 5. Srivastava, D.K. & Shankar, U. (2012). Development and Public Finance: Essays in Honour of Raja J. Chelliah. Sage India, New Delhi.	

	Other References	1. Auerbach, A.J. & Feldstern, M. (Eds.) (1985). Handbook of Public Economics, Vol. I. North Holland, Amsterdam. 2. Buchanan, J.M. (1970). The Public Finances. Richard D. Irwin, Homewood. 3. Peacock, A. & Shaw, G.K. (1976). The Economic Theory of Fiscal Policy. George Allen and Unwin, London. 4. Srivastava, D.K. (Ed.) (2000). Fiscal Federalism in India. Har-Anand Publications Ltd., New Delhi. 5. Mundle, S. (1999). Public Finance Policy: Issues for India. Oxford University Press, New Delhi. 6. Ghosh, A. & Ghosh, C. (2014). Public Finance. PHI Learning Private Limited, Delhi. 7. Reports of various Finance Commissions.	

Course Articulation Matrix

POs COs	PO1	PO2	PO3	PO4	PO5	PO6	PSO1	PSO2	PSO3	PSO4
CO1	3	3	2	-	2	1	2	-	2	3
CO2	2	3	3	2	2	2	2	3	3	3
CO3	3	2	3	2	3	2	3	3	2	3
CO4	3	2	3	3	3	3	3	3	3	3
CO5	3	3	3	2	3	3	3	2	3	3
CO6	2	3	2	3	2	3	2	3	2	3

1-Slight (Low) **2-Moderate (Medium)** **3-Substantial (High)**

SEMESTER –VII (ii) (HONOURS WITH RESEARCH)

Sr. No	Course Code	Course Name	L	T	P	Credits	Category
1	EOT4401	Micro Economic Theory	4	0	0	4	CC
2	EOT4402	Macro Economic Theory	4	0	0	4	CC
3	EOT4404	Public Economics: Theory & Policy	4	0	0	4	CC
4	EOT4405	Public Policy & Welfare	4	0	0	4	Minor
5	EOP4401	Micro Economic Analysis	0	0	2	1	Core Practical
6	EOP4402	Macro Economic Analysis	0	0	2	1	Core Practical
7	EOP4403	International Trade: Policy & Practices	0	0	2	1	Core Practical
8	EOP4404	Public Economics: Policy & Practices	0	0	2	1	Core Practical
9	EOR4402	Research Project in Economics II	0	0	6	3	Research Project
Semester 7 Credits: 23 Min : Max:							

School: SSHS		**Sharda School of Humanities & Social Sciences**
Batch:		**2025-29**
Program: B.A. (Hons with Research)		**B.A. Economics**
Current Academic Year:		**2025- 26**
Branch: - Economics		**Semester: VII (ii)**
1	Course Code	EOT4401
2	Course Title	**Micro Economic Theory**
3	Credits	04
4	Contact Hours (L-T-P)	4-0-0
	Course Type	Major-CC
5	Course Description	This is an advanced course in microeconomic theory. The course covers the main topics of microeconomics from consumer and producer behavior, partial and general equilibrium, and behavior under uncertainty, game theory and asymmetric information.
6	Course Objective	1. To make students understand the principles of demand, supply, and market price and quantity determination. 2. To make students examine the equity-efficiency trade-off in economics in the context of taxation. 3. To make students understand the principle of rising marginal cost, its relation to average cost and other costs, and how costs for the firm differ in the short and long runs. 4. To make students illustrate how the output and entry and exit decisions of firms in competitive markets determine the price and supply of output in the short and long runs. 5. To make students explain how prices and outputs are determined in markets characterized by just one seller (monopoly), a few sellers (oligopoly), or by many sellers of unique but similar products (monopolistic competition).
7	Course Outcomes	On completion of this course the learners will be able to **CO1**. **Define** and examine the concepts of economics from the viewpoint of choice making **CO2. Illustrate** and describe various approaches to preference identification and ordering according to the constraints of budget **C03. Identify** and analyze the different forms of the market and market structure **CO4. Analyze** and assess the general equilibrium and welfare aspects **CO5. Determine** and introduce to the basic concepts of game theory **CO6. Elaborate** and demonstrate the application of game theory
8	**Outline syllabus**	**CO Mapping**

	Unit 1	**Introduction to Demand Analysis and Consumer Behaviour**	
	A	Concept of Elasticities and their implications, Consumer's surplus; Engel's Law of Demand, Elementary theory of price formation demand and supply equilibrium.	**CO1**
	B	Indifference curve and their applications; Revealed preference theory, Indifference curves from Utility, Perfect Complements. Marginal Utility, Cobb-Douglas Preferences	**CO1**
	C	Hicksian revision of demand theory-Choice under uncertainty (Bernoulli and Neumann theory)	**CO1**
	Unit 2	**Theory of Costs and Production**	
	A	Cost concepts: short-run and long-run, Average and Marginal costs; Derivation of cost functions from production functions; Modern theory of cost- Engineering cost- multiproduct	**CO2**
	B	Production function: short-run and long-run; Law of variable proportions and returns to scale; Isoquants; Cobb-Douglas	**CO2**
	C	Returns to factors; Elasticity of substitution; Least cost combination of inputs; Equilibrium of the Firm – Total Revenue and Total Cost Approach and Marginal Revenue and Marginal Cost Approach	**CO2**
	Unit 3	**Market and Market Structures**	
	A	Equilibrium of the Firm and Industry under Perfect Competition, Monopoly, Monopolistic competition, Oligopoly	**CO3**
	B	Perfect competition — short run and long run equilibrium; Monopoly: short and long run equilibrium, price discrimination- Meaning and Types; Price and output determination under bilateral monopoly and multi-product equilibrium	**CO3**
	C	Monopolistic competition — Meaning and Nature, Chamberlin approaches, product differentiation, excess capacity under monopolistic; Non-collusive Oligopoly: Cournot, Bertrand, Stackelberg, Kinked demand curve; Collusive Oligopoly: Cartels and mergers.	**CO3**
	Unit 4	**General equilibrium and Welfare Economics**	
	A	General equilibrium of exchange, production and output markets	**CO4**
	B	Economic efficiency and Equity	**CO4**
	C	Utility possibility frontier, Arrow's impossibility theorem	**CO5**
	Unit 5	**An introduction to Game Theory and Applications**	
	A	Payoff matrix of a game Nash equilibrium, Mixed strategies, Prisoner's dilemma; Repeated games, sequential games	**CO5**
	B	Best response curves, mixed strategies, games of coordination	**CO6**
	C	Games of competition, coexistence and commitment; Bargaining, two player model of bargaining	**CO6**

	Mode of examination	Theory		
	Weightage Distribution	CA	MTE	ETE
		25%	25%	50 %
	Text book/s*	1. Henderson J. and R.E. Quandt (1980), Microeconomic Theory: A Mathematical Approach, McGraw Hill, New Delhi. 2. Koutsoyiannis, A. (1990), Modern Microeconomics, Macmillan. 3. Lipsey, R.G. and K.A. Chrystal (1999), Principles of Economics (9th Edition), Oxford University Press, Oxford. 4. Ryan, W.J.L. (1962), Price Theory, Macmillan and CO. Limited, London.		
	Other References	1. Samuelson, P.A. and W.D. Nordhaus (1998), Economics, Tata McGraw Hill, New Delhi. 2. Stonier, A.W. and D.C. Hague (1972), A Textbook of Economic Theory, ELBS & Longman, Group, London. 3. Varian, H.R. (2000), Intermediate Microeconomics: A Modern Approach (5th Edition), East-West Press, New Delhi.		

Course Articulation Matrix

POs COs	**PO1**	**PO2**	**PO3**	**PO4**	**PO5**	**PO6**	**PSO1**	**PSO2**	**PSO3**	**PSO4**
CO1	1	3	2	2	1	2	1	2	-	1
CO2	2	2	2	2	2	-	2	2	1	-
CO3	3	2	2	-	1	3	2	1	1	2
CO4	2	2	2	3	1	-	2	1	1	-
CO5	1	3	2	2	1	3	2	2	-	1
CO6	1	3	2	2	1	3	2	2	-	1

1-Low 2-Medium 3-High

School: SSHS		**Sharda School of Humanities & Social Sciences**
Batch:		**2025-29**
Program: B.A. (Hons with Research)		**B.A. Economics**
Current Academic Year:		**2025- 26**
Branch: - Economics		**Semester: VII (ii)**
1	Course Code	EOT4402
12	Course Title	Macro Economic Theory
3	Credits	04
4	Contact Hours	4-0-0
	Course Status	Major-CC
5	Course Description	This course provides a comprehensive understanding of macroeconomic principles, theories, and models that explain the functioning of an economy at an aggregate level. It covers key macroeconomic indicators such as GDP, inflation, unemployment, and economic growth, along with their measurement and implications. Students will explore various macroeconomic frameworks, including new classical and new Keynesian models, to analyze business cycles, economic fluctuations, and policy responses. The course also examines the role of government policies in influencing economic stability, inflation control, and long-term growth. Additionally, advanced macroeconomic models such as the Ramsey Model and Overlapping Generations (OLG) models will be introduced to analyze intertemporal consumption, savings behavior, and intergenerational economic interactions.
6	Course Objective	1. Develop a strong foundation in macroeconomic concepts, including GDP, inflation, unemployment, and economic growth. 2. Analyze macroeconomic theories and models, including new classical, new Keynesian, and modern approaches, to understand economic fluctuations and policy implications. 3. Examine the causes and effects of business cycles and evaluate the role of government policies in economic stability, growth, and inflation. 4. Explore advanced macroeconomic models, such as the Ramsey Model and Overlapping Generations (OLG) models, to understand intertemporal consumption, savings, and intergenerational economic interactions.
7	Course Outcomes	On completion of this course the learners will be able to **CO1**. **Gain** knowledge of fundamental macroeconomic concepts, including GDP, inflation, unemployment, and economic growth. **CO2. Develo**p an understanding of new classical, new Keynesian, and modern macroeconomic theories and models. **CO3. Understand** the demand and supply of money alonwith central banking system. **CO4. Assess** the interrelationship between inflation and unemployment and assess policy responses under different expectations frameworks.

		CO5. Analyze the effectiveness of macroeconomic policies in closed and open economies and analyze international macroeconomic linkages. **CO6. Explore** Assess the effectiveness of macroeconomic policies in closed and open economies and analyze international macroeconomic linkages.	
8	**Outline syllabus**		**CO Mapping**
	Unit 1	**National Income and Accounts**	
	A	Macro Economics: Nature, Concepts and Issues, structure of Closed Economies, Measuring Performance of the Economy, Income of Nation and Accounting:	**CO1**
	B	Circular Flow of Income in two, three and four-sector economy; different forms of national income accounting – social accounting, input – output accounting, and environmental accounting,	**CO1**
	C	The Natural Rate of Unemployment Hypothesis-Adaptive Expectation and Rational Expectation models, NRU and full employment, NRU and NAIRU	**CO1**
	Unit 2	**Classical and Keynesian Models**	
	A	Classical theory: Say's Law, Quantity theory of money, Classical Dichotomy	**CO2**
	B	Keynesian revolution: Effective demand, consumption and investment functions, Multiplier and Accelerator, The Marginal Efficiency of Capital Approach; Theories of Investment. Equilibrium and Output determination using AD & AS	**CO2**
	C	Equilibrium in the goods and money markets: IS-LM Model	**CO2**
	Unit 3	**Demand for and Supply of Money**	
	A	Theories of demand for money: Fisher, Cambridge, Keynes, Friedman, Post Keynesian approaches to demand for money-Tobin (Portfolio balance approach), Baumol (investment theoretic approach), Friedman (Restatement of quantity theory of money) and Patinkin approach.	**CO3**
	B	Money supply: Measures, determinants, money multiplier	**CO3**
	C	Central banking and credit creation	**CO3**
	Unit 4	**Inflation, Unemployment and Expectations**	
	A	Inflation: types, causes, and consequences	**CO4**
	B	Phillips Curve, NAIRU, and rational expectations, Unemployment: types, measurement, and policy implications	**CO4**
	C	Social Security models under OLG.	**CO5**
	Unit 5	**Macroeconomic Policy in an Open Economy**	
	A	Balance of Payments (BoP): Structure and components; BoP equilibrium and disequilibrium; Causes and consequences of BoP imbalances	**CO5**
	B	Exchange Rate Systems: Fixed vs floating exchange rate regimes; Managed float and crawling peg systems; Demand	**CO6**

		and supply of foreign exchange; Determination of exchange rates in the short and long run; Purchasing Power Parity (PPP) and Interest Rate Parity (IRP);		
	C	The Mundell-Fleming Model (IS-LM-BP): Short-run policy analysis under fixed and flexible exchange rates; Effectiveness of fiscal and monetary policy in an open economy; Capital mobility and policy trade-offs (Impossible Trinity)		**CO6**
	Mode of examination	Theory		
	Weightage Distribution	CA	MTE	ETE
		25%	25%	50%
	Text book/s*	1. Mankiw, N. G. (2023). Macroeconomics (12th ed.). Macmillan Learning. 2. Blanchard, O. (2021). Macroeconomics (8th ed.). Pearson. 3. Romer, D. (2022). Advanced Macroeconomics (6th ed.). McGraw-Hill Education. 4. Barro, R. J., & Sala-i-Martin, X. (2004). Economic Growth (2nd ed.). MIT Press. 5. Davidson, P. (2011). Post Keynesian Macroeconomic Theory: Second Edition (2nd ed.). Edward Elgar Publishing.		
	Other References	1. Snowdon, B., & Vane, H. R. (2005). Modern Macroeconomics: Its Origins, Development and Current State. Edward Elgar Publishing. 2. Dornbusch, R., Fischer, S., & Startz, R. (2020). Macroeconomics (14th ed.). McGraw-Hill Education. 3. Sargent, T. J. (1987). Dynamic Macroeconomic Theory. Harvard University Press. 4. Heijdra, B. J. (2017). Foundations of Modern Macroeconomics (3rd ed.). Oxford University Press.		

CO PO Articulation Matrix

POs COs	PO1	PO2	PO3	PO4	PO5	PO6	PSO1	PSO2	PSO3	PSO4
CO1	3	3	2	1	3	2	2	1	3	2
CO2	2	3	1	3	2	2	2	1	1	1
CO3	1	2	2	2	3	2	2	1	1	1
CO4	2	3	2	3	1	2	3	3	2	1
CO5	2	2	3	1	3	3	2	1	3	2
CO6	3	3	3	3	3	3	3	3	3	1

1-Low 2-Medium 3-High

School: SSHS		**Sharda School of Humanities & Social Sciences**	
Batch:		**2025-29**	
Program: B.A. (Hons with Research)		**B.A. Economics**	
Current Academic Year:		**2025- 26**	
Branch: - Economics		**Semester: VII (ii)**	
1	Course Code	EOT4404	
2	Course Title	Public Economics: Theory & Policy	
3	Credits	04	
4	Contact Hours	4-0-0	
	Course Status	Major-CC	
5	Course Description	This course explores the role of government in economic activities, focusing on market failures, externalities, public goods, taxation, public expenditure, debt management, and fiscal federalism. It also introduces students to research methodologies in public finance, enabling them to develop research proposals and policy recommendations.	
6	Course Objective	**This course aims to:** 1. To introduce the importance of externalities and public goods in the economy. 2. To prepare students for quantitative and qualitative research in public economics. 3. To develop an understanding of public expenditure, taxation, and fiscal federalism. 4. To provide insights into drafting research proposals with an interdisciplinary approach.	
7	Course Outcomes	On completion of this course the learners will be able to **CO1. Define** basic concepts of public economics like externalities, public goods, and government intervention. **CO2. Explain** public expenditure theories and their implications. **CO3. Identify** various taxation principles, base of tax burden distribution, and basics fiscal policies. **CO4. Analyze** and understand the basic concepts of public debt and policy issues. **CO5. Assess** fiscal federalism, resource allocation, and state financing. **CO6. Compose** the trend of public expenditure, public debt, and taxation policies in India.	
8	**Outline syllabus**		**CO Mapping**
	Unit 1	**Importance of Public Utilities and Goods**	
	A	Public Finance: Meaning and scope; Public vs. Private Goods.	**CO1**
	B	Market failure and the role of government; National, regional,	**CO1**

		and global public goods.	
	C	Public choice theory, theory of voting, and median voter theorem.	**CO1**
	Unit 2	**Public Policy and Public Expenditure**	
	A	Public expenditure: Principles, canons, causes, and growth; Wagner's Law.	**CO2**
	B	Peacock-Wiseman Hypothesis, welfare economics, and public sector economics.	**CO2**
	C	Social cost-benefit analysis and public investment criteria.	**CO2**
	Unit 3	**Public Revenue and Taxation**	
	A	Sources of public revenue of Central State and Local Government	**CO3**
	B	Tax burden division, ability-to-pay and benefit approaches.	**CO3**
	C	Taxable capacity, characteristics of a good tax system, theory of optimal taxation.	**CO3**
	Unit 4	**Public Debt and Policy Issues**	
	A	Public debt: Objectives, sources, burden, and management principles.	**CO4**
	B	Fiscal policy: Interdependence with monetary policy, budget deficits.	**CO4**
	C	Balanced budget multiplier, crowding-out effect, and economic stabilization.	**CO4**
	Unit 5	**Fiscal Federalism and International Public Finance**	
	A	Fiscal federalism: Principles, resource transfers, intergovernmental grants.	**CO5**
	B	IMF, World Bank, IDA, ADB, BRICS Bank, and international fiscal policies.	**CO5**
	C	Trends in public expenditure, public debt, and taxation policies in India.	**CO6**
	Mode of examination	Theory	
	Weightage Distribution	CA / MTE / ETE	
		25% / 25% / 50%	
	Text book/s*	1. Musgrave, R.A. & Musgrave, P.B. (1976). Public Finance in Theory and Practice. McGraw Hill, Kogakusha, Tokyo. 2. Stiglitz, J.E. (1986). Economics of the Public Sector. Norton, New York. 3. Jha, R. (1998). Modern Public Economics. Routledge, London. 4. Gruber, J. (2009). Public Finance and Public Policy. Worth Publishers, New York. 5. Srivastava, D.K. & Shankar, U. (2012). Development and Public Finance: Essays in Honour of Raja J. Chelliah. Sage India, New Delhi.	

	Other References	1. Auerbach, A.J. & Feldstern, M. (Eds.) (1985). Handbook of Public Economics, Vol. I. North Holland, Amsterdam. 2. Buchanan, J.M. (1970). The Public Finances. Richard D. Irwin, Homewood. 3. Peacock, A. & Shaw, G.K. (1976). The Economic Theory of Fiscal Policy. George Allen and Unwin, London. 4. Srivastava, D.K. (Ed.) (2000). Fiscal Federalism in India. Har-Anand Publications Ltd., New Delhi. 5. Mundle, S. (1999). Public Finance Policy: Issues for India. Oxford University Press, New Delhi. 6. Ghosh, A. & Ghosh, C. (2014). Public Finance. PHI Learning Private Limited, Delhi. 7. Reports of various Finance Commissions.	

Course Articulation Matrix

POs COs	PO1	PO2	PO3	PO4	PO5	PO6	PSO1	PSO2	PSO3	PSO4
CO1	3	3	2	-	2	1	2	-	2	3
CO2	2	3	3	2	2	2	2	3	3	3
CO3	3	2	3	2	3	2	3	3	2	3
CO4	3	2	3	3	3	3	3	3	3	3
CO5	3	3	3	2	3	3	3	2	3	3
CO6	2	3	2	3	2	3	2	3	2	3

1-Low 2-Medium 3-High

School: SSHS		**Sharda School of Humanities & Social Sciences**	
Batch:		**2025-29**	
Program: B.A. (Hons with Research)		**B.A. Economics**	
Current Academic Year:		**2025- 26**	
Branch: - Economics		**Semester: VII (ii)**	
1	Course Code	EOT4405	
2	Course Title	**Public Policy & Welfare**	
3	Credits	4	
4	Contact Hours (L-T-P)	4-0-0	
	Course Type	Minor	
5	Course Description	This course aims at providing conceptual ideas about public policy making at global level. As the complex realm of public policy making at global level and national level are closely related to each other, it is very important to have idea about the issues involved in making of public policies. Various types of approaches & models of public policies, existing in the world will be the background for students to understand the theoretical issues as well as it's practical application.	
6	Course Objective	This course intends to achieve the following objectives: 1. Analyse the need for public policy 2. Comprehend some of the essential analytical concepts, theories and analytical tools of policy analysis 3. Explore many of these paradoxes of public policy research by reviewing various policies such as welfare, health care, labour market etc 4. Evaluate intergovernmental fiscal relations guiding financial relations between centre, state and local government	
7	Course Outcomes	The student will be able to: CO1: **Explain** the concept of public policy and various facets related to it CO2: **Examine** the role of government and governmental institutions in public policy making CO3: **Critically** analyze intergovernmental relations and its impact on policy designing CO4: **Evaluate** the underlying political, economic rationale behind particular public policy, be it poverty, health, education, rural development etc. CO5: **Make use of** and concise arguments about welfare theory and cost-benefit analysis CO6: **Apply** the above knowledge to find out the problems associated with making and implementation of a particular public policy.	
	Course Outline		**CO Mapping**
	Unit 1	**Public policy and policy analysis**	
	A	Public policy: Definition, nature, key concepts	**CO1**
	B	Economic, Social and Political context of public policy	**CO1**
	C	Instruments of Public Policy Analysis, Need for public policy.	**CO1**

	Unit 2	**Role of Government institutions in policy making**		
	A	Role of government and governance, formal institutions		**CO2**
	B	Federalism: Centre-State fiscal relations		**CO2**
	C	Informal institutions and actors		**CO2**
	Unit 3	**Rationale for public policy**		
	A	Income distribution and welfare programmes, taxation and tax reform		**CO3**
	B	Market mechanisms, government failure and market failure		**CO3**
	C	Social security measures, social assistance and social insurance, regulation.		**CO4**
	Unit 4	**Theories and approaches to public policy**		
	A	Welfarism; social choice theory; individual interests and collective action; collective action failure		**CO4**
	B	structural, political and institutional theory; game-theory		**CO5**
	C	cost-benefit analysis; cost-effectiveness analysis; efficiency, equity, ethics and values		**CO5**
	Unit 5	**Process of policy making**		
	A	Agenda setting and framing, policy design, policy formulation, roles and working with sources		**CO5**
	B	rationales for public policy, market policies, non-market policies, strategies, adoption, implementation, policy evaluation		**CO6**
	C	limits of policy making, policy change, NITI Ayog- Roles and responsibilities		**CO6**
	Mode of examination	Theory		
	Weightage Distribution	CA	MTE	ETE
		25%	25%	50%
	Readings Text book/s*	1. Just, Richard E., Darrell L. Hueth & Andrew Schmitz. (2004). The Welfare Economics of Public Policy: A Practical Approach to Project and Policy Evaluation, Cheltenham,,UK: Edward Elgar. 2. Knill, Christoph & Jale Tosun. (2012). Public Policy: A New Introduction. Hampshire: Palgrave Macmillan		
	Other References	1. Kraft, Michael E. & Furlong, Scott R. (2021). Public Policy: Politics, Analysis, and Alternatives (7th Edition),Thousand Oaks: Sage. 2. Lipsky, Michael. (2010), Street-Level Bureaucracy: Dilemmas of the Individual in Public Services., New York: Russell Sage Foundation. 3. Mathur, Kuldeep. (2015). Public Policy and Politics in India: How Institutions Matter., New Delhi: Oxford University Press. 4. Moran, Michael, Martin Rein and Robert E. Goodin (Eds). (2006). The Oxford Handbook of Public Policy., Oxford: Oxford University Press. 5. Stone, Deborah. (1984)., The Disabled State., Hampshire: Macmillan. 6. Stone, Deborah. (2012). Palicy paradox: The Art of Political Decision Making (3 rd Ed)., New York: W.W. Norton & Company. 7. Weimer, David L. & Aidan R. Vining. (2016). Policy Analysis: Concepts and Practice., Oxon: Routledge		

		8. Winston, Clifford (2006). Government Failure versus Market Failure: Microeconomics Policy Research and Government Performance., Washington, D.C.: AEI-Brookings Joint Center for Regulatory Studies, the American Enterprise Institute for Public Policy Research.

Course Articulation Matrix

POs / Cos	PO1	PO2	PO3	PO4	PO5	PO6	PSO1	PSO2	PSO3	PSO4
CO1	3	-	-	3	2	-	3	3	-	2
CO2	3	-	2	3	-	-	2	3	-	-
CO3	3	-	3	3	2	-	3	3	-	3
CO4	3	-	3	3	3	2	3	3	-	3
CO5	2	-	-	3	3	2	3	3	-	2
CO6	2	-	-	-	3	3	-	3	-	2

1-Low 2-Medium 3-High

School: SSHS		**Sharda School of Humanities & Social Sciences**
Batch:		**2025-29**
Program: B.A. (Hons with Research)		**B.A. Economics**
Current Academic Year:		**2025- 26**
Branch: - Economics		**Semester: VII (ii)**
1	Course Code	EOP4401
2	Course Title	**Micro Economic Analysis**
3	Credits	01
4	Contact Hours (L-T-P)	0-0-2
	Course Type	Core Practical
5	Course Description	This is an analytical part of advanced course in microeconomic theory. The course covers the main topics of microeconomics from consumer and producer behavior, partial and general equilibrium, and behavior under uncertainty, game theory and asymmetric information.
6	Course Objective	1. To make students understand the principles of demand, supply, and market price and quantity determination. 2. To make students examine the equity-efficiency trade-off in economics in the context of taxation. 3. To make students understand the principle of rising marginal cost, its relation to average cost and other costs, and how costs for the firm differ in the short and long runs. 4. To make students illustrate how the output and entry and exit decisions of firms in competitive markets determine the price and supply of output in the short and long runs. 5. To make students explain how prices and outputs are determined in markets characterized by just one seller (monopoly), a few sellers (oligopoly), or by many sellers of unique but similar products (monopolistic competition).
7	Course Outcomes	On completion of this course the learners will be able to **CO1**. **Define** and examine the concepts of economics from the viewpoint of choice making **CO2. Illustrate** and describe various approaches to preference identification and ordering according to the constraints of budget **C03. Identify** and analyze the different forms of the market and market structure **CO4. Analyze** and assess the general equilibrium and welfare aspects **CO5. Determine** and introduce to the basic concepts of game theory **CO6. Elaborate** and demonstrate the application of game theory
8	**Outline syllabus**	**CO Mapping**

	Unit 1	**Demand Analysis and Consumer Behaviour**	
	A	Calculation and interpretation of price, income, **and cross elasticities** using datasets.	**CO1**
	B	Plotting and analysis of indifference **curves** and budget constraints	**CO1**
	C	Simulating consumer equilibrium. Application of Bernoulli's utility theory in decision-making under uncertainty	**CO1**
	Unit 2	**Theory of Costs and Production**	
	A	Estimation of short-run and long-run cost curves using hypothetical/real data.	**CO2**
	B	Derivation of cost functions from production functions (Cobb-Douglas). Plotting isoquants and identifying least-cost input combinations.	**CO2**
	C	Calculation of returns to scale and elasticity of substitution. Analysis of firm's equilibrium using TR-TC and MR-MC approaches.	**CO2**
	Unit 3	**Market and Market Structures**	
	A	Comparative analysis of market outcomes under Perfect Competition and Monopoly.	**CO3**
	B	Simulation of price discrimination under Monopoly.	**CO3**
	C	Case study analysis of real-world oligopolistic behavior (e.g., telecom sector)	**CO3**
	Unit 4	**General equilibrium and Welfare Economics**	
	A	Construction of Edgeworth Box and finding general equilibrium.	**CO4**
	B	Discussion-based activity on equity-efficiency trade-off.	**CO4**
	C	Critical evaluation of Arrow's Impossibility Theorem using real-world electoral systems.	**CO5**
	Unit 5	**Game Theory Applications**	
	A	Construction and analysis of payoff matrices; identification of Nash equilibria.	**CO5**
	B	Practical applications of coordination games (e.g., traffic rules, tech adoption).	**CO6**
	C	Case-based group exercise on bargaining solutions using two-player models.	**CO6**
	Mode of examination	Practical	
	Weightage Distribution	CA / CE / Viva	
		30% / 30% / 40 %	
	Text book/s*	1. Henderson J. and R.E. Quandt (1980), Microeconomic Theory: A Mathematical Approach, McGraw Hill, New Delhi.	

		2. Koutsoyiannis, A. (1990), Modern Microeconomics, Macmillan. 3. Lipsey, R.G. and K.A. Chrystal (1999), Principles of Economics (9th Edition), Oxford University Press, Oxford. 4. Ryan, W.J.L. (1962), Price Theory, Macmillan and CO. Limited, London.
	Other References	1. Samuelson, P.A. and W.D. Nordhaus (1998), Economics, Tata McGraw Hill, New Delhi. 2. Stonier, A.W. and D.C. Hague (1972), A Textbook of Economic Theory, ELBS & Longman, Group, London. 3. Varian, H.R. (2000), Intermediate Microeconomics: A Modern Approach (5th Edition), East-West Press, New Delhi.

Course Articulation Matrix

POs COs	PO1	PO2	PO3	PO4	PO5	PO6	PSO1	PSO2	PSO3	PSO4
CO1	1	3	2	2	1	2	1	2	-	1
CO2	2	2	2	2	2	-	2	2	1	-
CO3	3	2	2	-	1	3	2	1	1	2
CO4	2	2	2	3	1	-	2	1	1	-
CO5	1	3	2	2	1	3	2	2	-	1
CO6	1	3	2	2	1	3	2	2	-	1

1-Low 2-Medium 3-High

School: SSHS		**Sharda School of Humanities & Social Sciences**
Batch:		**2025-29**
Program: B.A. (Hons with Research)		**B.A. Economics**
Current Academic Year:		**2025- 26**
Branch: - Economics		**Semester: VII (ii)**
1	Course Code	EOP4402
12	Course Title	Macro Economic Analysis
3	Credits	01
4	Contact Hours	0-0-2
	Course Status	Core Practical
5	Course Description	This course provides a comprehensive understanding of application pf macroeconomic principles, theories, and models that explain the functioning of an economy at an aggregate level. It covers key macroeconomic indicators such as GDP, inflation, unemployment, and economic growth, along with their measurement and implications. Students will explore various macroeconomic frameworks, including new classical and new Keynesian models, to analyze business cycles, economic fluctuations, and policy responses. The course also examines the role of government policies in influencing economic stability, inflation control, and long-term growth. Additionally, advanced macroeconomic models such as the Ramsey Model and Overlapping Generations (OLG) models will be introduced to analyze intertemporal consumption, savings behavior, and intergenerational economic interactions.
6	Course Objective	1. Develop a strong foundation in macroeconomic concepts, including GDP, inflation, unemployment, and economic growth. 2. Analyze macroeconomic theories and models, including new classical, new Keynesian, and modern approaches, to understand economic fluctuations and policy implications. 3. Examine the causes and effects of business cycles and evaluate the role of government policies in economic stability, growth, and inflation. 4. Explore advanced macroeconomic models, such as the Ramsey Model and Overlapping Generations (OLG) models, to understand intertemporal consumption, savings, and intergenerational economic interactions.
7	Course Outcomes	On completion of this course the learners will be able to **CO1**. **Gain** knowledge of fundamental macroeconomic concepts, including GDP, inflation, unemployment, and economic growth. **CO2. Develo**p an understanding of new classical, new Keynesian, and modern macroeconomic theories and models. **CO3. Understand** the demand and supply of money alonwith central banking system.

		CO4. Assess the interrelationship between inflation and unemployment and assess policy responses under different expectations frameworks. **CO5. Analyze** the effectiveness of macroeconomic policies in closed and open economies and analyze international macroeconomic linkages. **CO6. Explore** Assess the effectiveness of macroeconomic policies in closed and open economies and analyze international macroeconomic linkages.	
8	**Outline syllabus**		**CO Mapping**
	Unit 1	**National Income and Accounts**	
	A	• Use CSO or MOSPI data to calculate GDP at factor cost and market prices using expenditure, income, and production approaches. Compare trends over 5 years.	**CO1**
	B	• Draw and simulate a two-, three-, and four-sector model using software (Excel or Canva). • Analyze the effect of leakages and injections (taxes, savings, investments, exports/imports).	**CO1**
	C	• Case study: Green GDP and environmental cost in India.	**CO1**
	Unit 2	**Classical and Keynesian Models**	
	A	• Debate activity: Say's Law vs Keynesian Demand Theory using historical economic examples (e.g., Great Depression). • Identify situations where each theory holds.	**CO2**
	B	• Use Excel or Python to graph the Aggregate Demand and Aggregate Supply curves. • Show how shocks (tax cut, inflation, oil price) affect output and price level.	**CO2**
	C	• Solve and graph the IS-LM equilibrium using assumed values for consumption, investment, interest rates, etc. • Observe how monetary and fiscal policies shift the curves.	**CO2**
	Unit 3	**Demand for and Supply of Money**	
	A	• Create a comparison chart of Fisher, Keynes, Friedman, Tobin, Baumol, and Post-Keynesian approaches. • Highlight differences in assumptions, variables, and policy relevance.	**CO3**
	B	• Download data from RBI's Handbook of Statistics. • Graph and interpret trends in M1, M2, M3 over the last 10 years.	**CO3**
	C	• Simulate bank credit creation using Excel: • Start with a base deposit, apply reserve ratios, and	**CO3**

		calculate the money multiplier effect.		
	Unit 4	**Inflation, Unemployment and Expectations**		
	A	• Use CPI and WPI data from RBI or MOSPI. • Calculate inflation rates over different time periods and compare trends.		**CO4**
	B	• Plot the Phillips Curve using data on inflation and unemployment in India from 2000 to 2023. • Discuss if the relationship holds true in the Indian context.		**CO4**
	C	• Estimate NAIRU from secondary sources and calculate the unemployment gap. • Discuss policy implications when actual unemployment is above or below NAIRU.		**CO5**
	Unit 5	**Macroeconomic Policy in an Open Economy**		
	A	• Use India's BoP data from RBI. • Identify trends in current account, capital account, and errors & omissions. • Explain periods of deficit/surplus.		**CO5**
	B	• Collect exchange rate data (₹ vs USD, Euro, etc.).		**CO6**
	C	• Analyze India's policy responses to capital inflows/outflows. • Simulate how India manages the Impossible Trinity using real-world policy examples.		**CO6**
	Mode of examination	Practical		
	Weightage Distribution	CA	CE	Viva
		30%	30%	40%
	Text book/s*	1. Mankiw, N. G. (2023). Macroeconomics (12th ed.). Macmillan Learning. 2. Blanchard, O. (2021). Macroeconomics (8th ed.). Pearson. 3. Romer, D. (2022). Advanced Macroeconomics (6th ed.). McGraw-Hill Education. 4. Barro, R. J., & Sala-i-Martin, X. (2004). Economic Growth (2nd ed.). MIT Press. 5. Davidson, P. (2011). Post Keynesian Macroeconomic Theory: Second Edition (2nd ed.). Edward Elgar Publishing.		
	Other References	1. Snowdon, B., & Vane, H. R. (2005). Modern Macroeconomics: Its Origins, Development and Current State. Edward Elgar Publishing. 2. Dornbusch, R., Fischer, S., & Startz, R. (2020). Macroeconomics (14th ed.). McGraw-Hill Education. 3. Sargent, T. J. (1987). Dynamic Macroeconomic Theory. Harvard University Press.		

		4. Heijdra, B. J. (2017). Foundations of Modern Macroeconomics (3rd ed.). Oxford University Press.

CO PO Articulation Matrix

POs COs	PO1	PO2	PO3	PO4	PO5	PO6	PSO1	PSO2	PSO3	PSO4
CO1	3	3	2	1	3	2	2	1	3	2
CO2	2	3	1	3	2	2	2	1	1	1
CO3	1	2	2	2	3	2	2	1	1	1
CO4	2	3	2	3	1	2	3	3	2	1
CO5	2	2	3	1	3	3	2	1	3	2
CO6	3	3	3	3	3	3	3	3	3	1

1-Low 2-Medium 3-High

School: SSHS		**Sharda School of Humanities & Social Sciences**	
Batch:		**2025-29**	
Program: B.A. (Hons with Research)		**B.A. Economics**	
Current Academic Year:		**2025- 26**	
Branch: - Economics		**Semester: VII (ii)**	
1	Course Code	EOP4403	
2	Course Title	International Trade: Policy & Practices	
3	Credits	01	
4	Contact Hours	0-0-2	
	Course Status	Core Practical	
5	Course Description	This course provides an analysis based on empirical scenario of the economic relationship between countries covering both trade and monetary issues. The course is to introduce students to both classical and modern theories of international trade in goods and services as well as empirical research on trade. The course also concerns with the overview of balance of payment accounts and open economy income identities.	
6	Course Objective	This course aims to 1. Develop a systematic exposition of models that try to explain the composition, direction, and consequences of international trade, 2. Evaluate the determinants and effects of trade policy. 3. Examines alternative trade theories, protectionism, trade restrictions, trade policies, trade liberalization, free trade agreements 4. Focuses on the international finance, including exchange rates and interest	
7	Course Outcomes	Upon completion of this course, the students will be able to **CO1. Define** the concept of international economics and compare between alternative theories of international trade **CO2. Explain** the validity and efficiency of protectionist policies **CO3. Identify** the impact of tariffs and non-tariff barriers **CO4. Analyse** the nation's balance of payment account and international trade pattern **CO5. Explain** the meaning, pattern and trends of foreign direct investment and exchange rate **CO6. Discuss** the working of international financial institutions	
8	**Outline syllabus**		**CO Mapping**
	Unit 1	**International Trade Theory**	
	A	Visual comparison of Absolute vs Comparative Advantage using numerical examples.	**CO1**

	B	Case analysis of Factor Endowment Theory and Leontief Paradox using real data.	**CO1**
	C	Create charts to measure and visualize Intra-industry Trade Index using trade data of select countries.	**CO1**
	Unit 2	**International Trade Policy**	
	A	Debate or roleplay on Free Trade vs Protectionism using real country examples.	**CO2**
	B	Diagrammatic analysis of Tariff Effects using Partial Equilibrium Models.	**CO3**
	C	Case studies on Non-Tariff Barriers (e.g., quotas, subsidies, standards).	**CO3**
	Unit 3	**International Trade Patterns and Balance of Payments**	
	A	Time series charting of World Trade Growth using WTO/World Bank data.	**CO4**
	B	Analysis of Balance of Payments Components using IMF/World Bank data.	**CO4**
	C	Case study presentation: India's BOP crisis and recovery (1991 & recent years).	**CO4**
	Unit 4	**Foreign Direct Investment and Exchange rate**	
	A	Compilation and graphical representation of FDI trends in India and globally.	**CO5**
	B	Spreadsheet assignment: Correlation between exchange rate movement and FDI inflows.	**CO5**
	C	Trend Analysis of FII in India	**CO5**
	Unit 5	**International Financial Institutions**	
	A	Flowchart explaining the evolution of the International Monetary System (Gold Standard to Bretton Woods to present).	**CO6**
	B	Group exercise: Simulate foreign exchange transactions including spot rate, arbitrage, and hedging scenarios.	**CO6**
	C	Brief presentations on functions and roles of IMF, WTO, and UNCTAD in real-world trade and development.	**CO6**
	Mode of examination	CA & Viva	
	Weightage Distribution	CA: 30% / CE: 30% / Viva: 40%	
	Text book/s*	1. Robert C. Feenstra and Alan M. Taylor(2014),*International Economics*, New York. Palgrave MacMillan. 2. Salvatore Dominic (2013), *International Economics*, US,Wiley.	
	Other References	1. Appleyard and Field (2013), International Economics, New York, McGraw Hill. 2. Krugman, Obstfeld and Melitz (2014), International Economics: Theory and Policy, New Delhi, Pearson. 3. Philip King and Sharmila King (2009), International Economics, Globalization, and Policy: A Reader, New	

		Delhi, McGraw Hill. 4. Deardorff, Alan V. (2003) "Introduction to comparative advantage", mimeo, University of Michigan, available from http://www-personal.umich.edu/~alandear/writings/compadv3.pdf 5. R5. Krugman, Paul (1996), "Ricardo's difficult idea", paper for Manchester conference on free trade available from http://web.mit.edu/krugman/www/ricardo.htm. 6. Samuelson, Paul (2004), "Where Ricardo and Mill rebut and confirm arguments of mainstream economists supporting globalization", Journal of Economic Perspectives 18(3): 35-146, available from http://pubs.aeaweb.org/doi/pdfplus/10.1257/0895330042162403 7. Jones, R. W. (2012), "The specific factors model", mimeo, University of Rochester, available from http://www.econ.rochester.edu/people/jones/Specific_Factors_Model.pdf 8. Freeman, Richard B. (2006), "People flows in globalization", Journal of Economic Perspectives 20(2): 145-170, available from http://pubs.aeaweb.org/doi/pdfplus/10.1257/jep.20.2.145	

CO PO Articulation Matrix

POs COs	PO1	PO2	PO3	PO4	PO5	PO6	PSO1	PSO2	PSO3	PSO4
CO1	2	1	1	-	2	2	1	-	2	3
CO2	2	1	1	-	2	2	1	-	2	3
CO3	2	1	2	-	2	2	1	-	2	3
CO4	2	1	1	-	2	2	1	-	2	3
CO5	2	1	1	-	2	2	1	-	2	3
CO6	2	1	3	-	2	2	1	-	2	3

1-Slight (Low) **2-Moderate (Medium)** **3-Substantial (High)**

School: SSHS		**Sharda School of Humanities & Social Sciences**	
Batch:		**2025-29**	
Program: B.A. (Hons with Research)		**B.A. Economics**	
Current Academic Year:		**2025- 26**	
Branch: - Economics		**Semester: VII (ii)**	
1	Course Code	EOP4404	
2	Course Title	Public Economics: Policy & Practices	
3	Credits	01	
4	Contact Hours	0-0-2	
	Course Status	Core Practical	
5	Course Description	This course explores the application part of the role of government in economic activities, focusing on market failures, externalities, public goods, taxation, public expenditure, debt management, and fiscal federalism. It also introduces students to research methodologies in public finance, enabling them to develop research proposals and policy recommendations.	
6	Course Objective	**This course aims to:** 1. To introduce the importance of externalities and public goods in the economy. 2. To prepare students for quantitative and qualitative research in public economics. 3. To develop an understanding of public expenditure, taxation, and fiscal federalism. 4. To provide insights into drafting research proposals with an interdisciplinary approach.	
7	Course Outcomes	On completion of this course the learners will be able to **CO1. Define** basic concepts of public economics like externalities, public goods, and government intervention. **CO2. Explain** public expenditure theories and their implications. **CO3. Identify** various taxation principles, base of tax burden distribution, and basics fiscal policies. **CO4. Analyze** and understand the basic concepts of public debt and policy issues. **CO5. Assess** fiscal federalism, resource allocation, and state financing. **CO6. Compose** the trend of public expenditure, public debt, and taxation policies in India.	
8	**Outline syllabus**		**CO Mapping**
	Unit 1	**Importance of Public Utilities and Goods**	
	A	Identify and categorize 5 real-world goods as either public or private. Explain why each falls into its respective category.	**CO1**

	B	To analyze market failure and the government's role in public goods provision.	**CO1**
	C	Simulate a voting scenario where students choose a public policy. Use the median voter theorem to predict the outcome.	**CO1**
	Unit 2	**Public Policy and Public Expenditure**	
	A	Use recent Union Budget data to analyze public expenditure trends across sectors like education, healthcare, etc.	**CO2**
	B	Apply the Peacock-Wiseman hypothesis and understand welfare economics in the context of public expenditure.	**CO2**
	C	Choose a public project (e.g., infrastructure, healthcare) and perform a social cost-benefit analysis.	**CO2**
	Unit 3	**Public Revenue and Taxation**	
	A	Create a comparative chart or table showing the revenue sources for Central, State, and Local Governments in India.	**CO3**
	B	Select a tax system (e.g., income tax) and analyze it through the lens of the ability-to-pay and benefit approaches.	**CO3**
	C	Critical analysis of the tax system and recommendations for improvement.	**CO3**
	Unit 4	**Public Debt and Policy Issues**	
	A	Analyze the public debt levels of India using government data and discuss its sources, burden, and management strategies.	**CO4**
	B	Use recent fiscal data to analyze India's budget deficit and the impact on monetary policy.	**CO4**
	C	Study and simulate a balanced budget multiplier scenario and the crowding-out effect using economic models.	**CO4**
	Unit 5	**Fiscal Federalism and International Public Finance**	
	A	Analyze the fiscal relations between the Central and State governments in India, focusing on resource transfers and intergovernmental grants.	**CO5**
	B	Choose one of the institutions (IMF, World Bank, etc.) and analyze its impact on India's public finance.	**CO5**
	C	Use government data to study trends in public expenditure, public debt, and taxation over the past decade.	**CO6**
	Mode of examination	CA & Viva	
	Weightage Distribution	CA: 30% / CE: 30%	Viva: 40%
	Text book/s*	1. Musgrave, R.A. & Musgrave, P.B. (1976). Public Finance in Theory and Practice. McGraw Hill, Kogakusha, Tokyo. 2. Stiglitz, J.E. (1986). Economics of the Public Sector. Norton, New York. 3. Jha, R. (1998). Modern Public Economics. Routledge, London. 4. Gruber, J. (2009). Public Finance and Public Policy. Worth Publishers, New York.	

		5. Srivastava, D.K. & Shankar, U. (2012). Development and Public Finance: Essays in Honour of Raja J. Chelliah. Sage India, New Delhi.	
	Other References	1. Auerbach, A.J. & Feldstern, M. (Eds.) (1985). Handbook of Public Economics, Vol. I. North Holland, Amsterdam. 2. Buchanan, J.M. (1970). The Public Finances. Richard D. Irwin, Homewood. 3. Peacock, A. & Shaw, G.K. (1976). The Economic Theory of Fiscal Policy. George Allen and Unwin, London. 4. Srivastava, D.K. (Ed.) (2000). Fiscal Federalism in India. Har-Anand Publications Ltd., New Delhi. 5. Mundle, S. (1999). Public Finance Policy: Issues for India. Oxford University Press, New Delhi. 6. Ghosh, A. & Ghosh, C. (2014). Public Finance. PHI Learning Private Limited, Delhi. 7. Reports of various Finance Commissions.	

Course Articulation Matrix

POs COs	PO1	PO2	PO3	PO4	PO5	PO6	PSO1	PSO2	PSO3	PSO4
CO1	3	3	2	-	2	1	2	-	2	3
CO2	2	3	3	2	2	2	2	3	3	3
CO3	3	2	3	2	3	2	3	3	2	3
CO4	3	2	3	3	3	3	3	3	3	3
CO5	3	3	3	2	3	3	3	2	3	3
CO6	2	3	2	3	2	3	2	3	2	3

1-Low 2-Medium 3-High

School: SSHS		**Sharda School of Humanities & Social Sciences**	
Batch:		**2025-29**	
Program: B.A. (Hons with Research)		**B.A. Economics**	
Current Academic Year:		**2025- 26**	
Branch: - Economics		**Semester: VII (ii)**	
1	Course Code	EOR4402	
2	Course Title	Research Project in Economics II	
3	Credits	03	
4	Contact Hours	0-0-6	
	Course Status	Research Project	
5	Course Description	This course provides students with the opportunity to apply economic concepts and analytical tools to a small-scale research project using secondary data. Students will identify research questions, conduct a literature review, collect and analyze secondary data from official and academic sources, and present their findings in a structured research report. The project work aims to build essential research, writing, and presentation skills.	
6	Course Objective	1. To introduce students to the process of conducting economic research using secondary data sources. 2. To enable students to frame researchable questions and review relevant literature. 3. To develop basic skills in data collection, tabulation, analysis, and interpretation. 4. To guide students in writing and presenting a concise project report based on empirical data.	
7	Course Outcomes	On completion of this course the learners will be able to **CO1**.**Choose** a research topic for project work. **CO2. Identify** research gaps, develop research objectives & hypotheses on the basis of review of literature. **CO3**. **Make use of** secondary data sources & preparation of data for data analysis. **CO4. Analyse**, visualize and interpret data using statistical methods such as descriptive statistics. **CO5. Conclude** the report writing of the project work in a proper format.. **CO6. Compose** a project work on the chosen research topic.	
8	**Outline syllabus**		**CO Mapping**
	Unit 1	**Identification of Research Topic**	
	A	Overview of economic research and its significance; Introduction to research methodologies in economics: Qualitative vs Quantitative research; Economic research ethics	**CO1**

		and standards; Understanding different economic research approaches (theoretical vs applied)	
	B	Compile a literature review using 20 research papers related to economic issues, selected according to the student's interest	**CO1**
	C	Choosing a relevant economic research topic that aligns with the researcher's interests and is supported by available data.	**CO1**
	Unit 2	**Conducting Literature Review**	
	A	Extend and update the literature review.	**CO2**
	B	Identifying research gaps in economic theories, models, and policy studies.	**CO2**
	C	Formulating research questions and hypotheses	**CO2**
	Unit 3	**Conceptual Background & Framework**	
	A	Revise & refine introduction.	**CO3**
	B	Explain key concepts and terminologies relevant to the research topic.	**CO3**
	C	Highlight the significance of the topic in the current economic or social context.	**CO3**
	Unit 4	**Research Objectives**	
	A	Stating the objectives of research.	**CO4**
	B	Formulation of null hypothesis.	**CO4**
	C	Alignment of research gap, objectives and hypothesis.	**CO4**
	Unit 5	**Research Methodology**	
	A	Define the type of study i.e. qualitative, quantitative, or mixed-method.	**CO5**
	B	Choose the research approach i.e. descriptive, exploratory, experimental, explanatory or case study research designs based on the research problem.	**CO5**
	C	Preparation and submission of final Project work with plagiarism check below 10%	**CO6**
	Mode of examination	CA & Viva	
	Weightage Distribution	CA: 30% / CE: 30% / Viva: 40%	
	Text book/s*	1. C.R. Kothari & Gaurav Garg (2019) – Research Methodology – New Age International Publishers 2. Donald R. Cooper & Pamela Schindler (2013) – Business Research Methods – McGraw-Hill Education 3. Tom Clark et al. (2021) – Bryman's Social Research Methods – Oxford University Press 4. Damodar Gujarati & Dawn Porter (2009) – Basic Econometrics – McGraw-Hill Education 5. Krishnaswamy, O.R., & Ranganatham, M. (2011) – *Research Methodology in Social Sciences*, Himalaya Publishing House. 6. Kumar, Ranjit (2022) – *Research Methodology: A Step-by-Step Guide for*	

		Beginners, Sage Publications. 7. Creswell, John W. (2018) – *Research Design: Qualitative, Quantitative, and Mixed Methods Approaches*, Sage Publications.
	Other References	1. Judith Bell et al. (2024) – Doing Your Research Project – Open University Press. 2. Brian White & Stephen Rayner (2014) – Dissertation Skills – Cengage Learning. 3. Wayne C. Booth et al. (2024) – The Craft of Research (5th ed.) – University of Chicago Press. 4. Acharyya, R. (Ed.), Bhattacharya, N. (Ed.). (2020). Research Methodology for Social Sciences. London: Routledge India.

Course Articulation Matrix

POs COs	PO1	PO2	PO3	PO4	PO5	PO6	PSO1	PSO2	PSO3	PSO4
CO1	2	2	2	1	1	2	3	2	2	1
CO2	2	3	2	2	2	3	3	3	2	2
CO3	1	2	2	3	2	3	2	3	3	2
CO4	1	3	2	3	3	2	2	3	3	3
CO5	2	2	2	2	2	3	3	2	2	2
CO6	2	3	2	2	2	3	3	3	3	2

1-Low 2-Medium 3-High

SEMESTER –VIII (i) (HONOURS)

Sr. No	Course Code	Course Name	L	T	P	Credits	Category
1	EOT4406	Environmental & Resource Economics	4	0	0	4	Minor
2	EOT4407	Economics of Social Issues	4	0	0	4	Minor
3	EOT4408	Agriculture Economics	4	0	0	4	Multidisciplinary
4	EOT4409	Urban Economics	4	0	0	4	Multidisciplinary
5	EOR4401	Research Project in Economics I	0	0	8	4	Research Project
Semester 8 Credits: 20 Min : Max:							

School: SSHSS		**Batch: 2025-29**
Program: B.A. (Hons)		**Current Academic Year: 2025-26**
Branch: Economics		**Semester: VIII (i)**
1	Course Code	EOT4406
2	Course Title	Environmental & Resource Economics
3	Credits	4
4	Contact Hours (L-T-P)	4-0-0
	Course Status	Minor
5	Course Description	**Environmental & Resource Economics** course aims to provide students with an understanding of the economic principles related to environmental issues and the role of government policies in addressing environmental challenges. The course covers topics such as market failures, the valuation of environmental goods and services, natural resource management, and sustainable development. A special focus will be given to the Indian context, examining the country's major environmental issues, policies, and the balance between economic growth and environmental sustainability. Students will explore both theoretical and applied aspects of environmental economics, gaining the knowledge necessary to evaluate policies and contribute to sustainable economic development.
6	Course Objective	The course has the following key objectives: **1.** To explain key environmental issues, market failures due to externalities, and the effectiveness of environmental policies. **2.** Make use of environmental valuation methods and cost-benefit analysis to assess policies for sustainable development. **3.** Analyse externalities, public goods, market failures, and solutions like Pigouvian taxes and green accounting. **4.** Evaluate Indian and global environmental policies, SDGs, and international agreements for their impact on sustainability.
7	Course Outcomes	On completion of this course the learners will be able to CO1: **Explain** key environmental issues, market failures due to externalities, and policy approaches, including Pigouvian taxes, tradable permits, and climate change economics. CO2: **Apply** environmental valuation methods, cost-benefit analysis, and sustainability concepts to assess environmental policies and their impact. CO3: **Analyze** the theory of externalities, the distinction between public and private goods, and Pigouvian solutions for market failures. CO4: **Examine** Indian and international environmental policies, key regulations, Sustainable Development Goals (SDGs), and global agreements. CO5: **Discuss** the relationship between population, environment, trade, and climate change, including major environmental challenges and legislative measures. CO6: **Assess** the role of the judiciary, carbon trading, and international institutions in environmental protection and conservation.
8	Outline syllabus	**CO Mapping**

	Unit 1	**Introduction:**	
	A	Key environmental issues and problems, economic way of thinking about these problems, basic concepts from economics.	**CO1**
	B	Pareto optimality and market failure in the presence of externalities; property rights and other approaches.	**CO1**
	C	The Design and Implementation of Environmental Policy: Overview, Pigouvian taxes and effluent fees, tradable permits, implementation of environmental policies in India and international experience. trans-boundary environmental problems; economics of climate change.	**CO1**
	Unit 2	**Environmental Valuation and Sustainable Development**	
	A	Environmental Valuation Methods and Applications: Valuation of non-market goods and services—theory and practice.	**CO2**
	B	Measurement methods; cost-benefit analysis of environmental policies and regulations.	**CO2**
	C	Sustainable Development: Concepts; measurement; perspectives from Indian experience. Environmental Impact Assessment; Environmental Education and Awareness	**CO2**
	Unit 3	**Theory of Externality**	
	A	Positive & Negative Externality; Public Goods; Private Goods; Public Bads.	**CO3**
	B	Market Failure and Pigouvian Solution- Pigouvian Tax.	**CO3**
	C	Social Limits to Growth Model; Green Accounting. Environmental Valuation-Meaning, Need for Environmental Valuation, Methods of Environmental Valuation, Environmental Damages and Its Valuation.	**CO3**
	Unit 4	**International and Indian Policy and Regulation for Environment**	
	A	Indian Constitution and the Environment; Environmental Management-Meaning and Concept, Objectives and Goals, Obstacles, The role of the Indian government in achieving Sustainable Development Goals (SDGs)	**CO4**
	B	The role of the Indian government in environmental protection, Key policies and regulations: National Environmental Policy, Environmental Protection Act, and pollution control measures	**CO4**
	C	International Environmental Agreements: Key global environmental agreements: Paris Agreement, Kyoto Protocol, Rio Earth Summit; Role of international organizations (e.g., United Nations, World Bank)	**CO4**
	Unit 5	**Population & Environment**	
	A	Population and Environment; Trade and Environment in the WTO Regime.	**CO5**
	B	Climate Change- Meaning and Concept, Ozone Depletion, Acid Rain, Global Warming and Greenhouse Effect; Indian Environmental Issues and Legislations.	**CO5**
	C	Role of Judiciary in Environmental Protection and Conservation; International Environmental Issues, Carbon Trading.	**CO6**

	Mode of examination	Theory		
11	Weightage Distribution	CA	MTE	ETE
		25%	25%	50%
	Readings/ Text Books	1. Bharucha, Erach. (n.d.). *Paryavaran Adhyayan*. Orient Blackswan. 2. Bhattacharya, Rabindra Nath. (2002). *Environmental Economics – An Indian Perspective*. Oxford University Press. 3. Eugine, T. (2005). *Environmental Economics*. Vrinda Publications, Delhi. 4. Jhingan, M.L. & Sharma, C.K. (2009). *Environmental Economics: Theory, Management & Policy*. Vrinda Publications, Delhi. 5. Kolstad, Charles D. (2012). *Intermediate Environmental Economics*. Oxford University Press. 6. Nagre, Vijay H. (2012). *Environmental Economics*. Chandralok Prakashan. 7. Singh, Kartar & Shishodia. (2007). *Environmental Economics: Theory and Applications*. Sage India.		
	Other References	1. Singh, S.R. (2012). Environmental Economics. APH Publishing Corporation, Delhi. 2. Smith, Stephen. (2011). Environmental Economics: A Very Short Introduction. Oxford University Press. 3. Tripathi, Daya Shanker. (n.d.). Paryaavaran Addhyayan. Motilal Banarsidass Pvt. Ltd.		

Course Articulation Matrix

Pos / COs	PO1	PO2	PO3	PO4	PO5	PO6	PSO1	PSO2	PSO3	PSO4
CO1	3	-	-	3	2	-	3	3	-	2
CO2	2	-	2	3	-	-	2	3	-	-
CO3	3	-	2	3	-	-	3	3	-	2
CO4	3	-	3	3	2	-	3	3	-	3
CO5	-	-	-	2	3	2	2	3	-	2
CO6	2	-	-	-	3	3	-	3	-	2

1-Low 2-Medium 3-High

School: SSHSS		**Batch: 2025-29**
Program: B.A. (Hons)		**Current Academic Year: 2025-26**
Branch: Economics		**Semester: VIII (i)**
1	Course Code	EOT4407
2	Course Title	Economics of Social Issues
3	Credits	4
4	Contact Hours	4-0-0
	Course Status	Minor
5	Course Description	The course *Economics of Social Issues* provides an in-depth exploration of the role economics plays in understanding and addressing key social challenges faced by societies. This course introduces students to economic theories and tools used to analyze pressing social issues such as poverty, inequality, healthcare, education, and environmental degradation. Students will learn how economic principles apply to social problems and evaluate the effectiveness of various policy interventions designed to mitigate these issues. Emphasizing the role of economic analysis in shaping social policies, this course prepares students to critically assess the economic aspects of societal challenges and contribute to informed discussions on public policy.
6	Course Objective	The course has following objectives: 1. To analyze social issues such as poverty, inequality, healthcare, education, and environmental challenges from an economic perspective. 2. To evaluate the effectiveness of government interventions, market-based solutions, and social policies in addressing social issues. 3. To promote critical thinking on concepts of justice, equity, and sustainable development in the context of economic analysis. 4. To develop a comprehensive understanding of the intersection between economics and social issues to inform policy decisions.
7	Course Outcomes	On completion of this course the learners will be able to CO1: **Define** and demonstrate a clear understanding of the major social issues from an economic perspective, including their causes, impacts, and potential solutions. CO2: **Illustrate** and utilize economic frameworks to analyze and interpret complex social problems, recognizing market failures, government intervention, and externalities. CO3: **Identify** and critically evaluate the success and limitations of social policies aimed at tackling issues such as inequality, education, healthcare, and environmental sustainability. CO4: **Analyze** and communicate economic analyses and policy recommendations clearly, both in writing and verbally, to a diverse audience. CO5: **Determine** and apply economic concepts and reasoning to global challenges, recognizing the interconnectedness of local and global social issues, and propose feasible solutions to Social problems, balancing

		efficiency with equity in the design and implementation of these policies.	
8	Outline syllabus		
	Unit 1	**Introduction to Economics and Social Issues**	
	A	Defining Social Issues in Economic Context: Economic Inequality; Poverty and Unemployment; Access to Healthcare and Education	**CO1**
	B	Agriculture distress; Contract Farming, Corporate Farming	**CO1**
	C	Economic Approaches to Social Problems: Cost-Benefit Analysis in Social Policy; The Role of Government in Addressing Social Issues; Theories of Justice and Equity in Economics	**CO1**
	Unit 2	**Poverty and Inequality**	
	A	Concepts and Measurement of Poverty: Absolute vs. Relative Poverty, Poverty Line and Indices, Global Poverty Trends, Poverty in India	**CO2**
	B	Economic Causes and Consequences of Inequality: Income and Wealth Distribution; Education and Skill Gaps; Globalization and Its Impact on Inequality	**CO2**
	C	Policies for Poverty Alleviation: Social Safety Nets and Welfare Programs; Microfinance and Poverty Reduction; Role of NGOs and International Organizations	**CO2**
	Unit 3	**Healthcare Economics**	
	A	**Economic Models of Healthcare Systems:** Public vs. Private Healthcare; Healthcare as a Merit Good; Health Insurance and Risk Pooling	**CO3**
	B	**Market Failures in Healthcare:** Asymmetric Information in Healthcare Markets; Externalities in Health (e.g., Epidemics); Government Intervention and Regulation	**CO3**
	C	**Access and Equity in Healthcare:** Universal Healthcare Systems; Healthcare Inequality and Social Determinants of Health; Global Health Challenges and Solutions	**CO2**
	Unit 4	**Education and Human Capital Development**	
	A	**Economics of Education:** Education as Investment in Human Capital; The Role of Education in Economic Development; Returns to Education: Individual and Societal Benefits	**CO4**
	B	**Barriers to Education:** Socioeconomic Disparities in Education Access; Gender and Education; Educational Policy and Inequality	**CO4**
	C	**Education and Labor Market Outcomes:** Skill Development and Economic Mobility; The Relationship Between Education and Employment; Education and Technological Change	**CO5**
	Unit 5	**Environmental Economics and Social Policy**	
	A	**Economic Impact of Environmental Degradation:** Climate Change and Its Economic Costs; Natural Resource Depletion; Waste Management	**CO5**
	B	**Market-Based Approaches to Environmental Issues:** Carbon Pricing and Emissions Trading; Externalities and	**CO6**

		Environmental Regulation; Sustainable Development and Green Economy		
	C	**Social Dimensions of Environmental Policy:** Environmental Justice and Equity; Social Costs of Environmental Damage; Role of Community in Environmental Solutions		**CO6**
	Mode of examination	Theory		
11	Weightage Distribution	CA	MTE	ETE
		25%	25%	50%
	Readings Text book/s*	1. Lipsey, R.G. (2016). Economics of Social Issues (20th ed.). Pearson Education. 2. Ray, D. (2010). Development Economics (3rd ed.). Princeton University Press. 3. Piketty, T. (2014). The Economics of Inequality. Belknap Press. 4. Gruber, J. (2017). Public Finance and Public Policy (6th ed.). Worth Publishers.		
	Other References	1. Folland, S., Goodman, A.C., & Stano, M. (2016). The Economics of Health and Health Care (7th ed.). Pearson Education. 2. Smith, S. (2011). Environmental Economics: A Very Short Introduction. Oxford University Press. 3. Hanushek, E.A., & Wößmann, L. (2012). Education and the Economy: An International Perspective. MIT Press. 4. O'Rourke, P. & Lavoie, M.S.L. (2015). Introduction to International Development: Approaches, Actors, and Issues. Sage Publications.		

Course Articulation Matrix

POs / Cos	PO1	PO2	PO3	PO4	PO5	PO6	PSO1	PSO2	PSO3	PSO4
CO1	3	-	2	3	2	-	3	3	-	2
CO2	3	-	3	3	2	-	3	3	-	3
CO3	3	-	3	3	3	2	3	3	-	3
CO4	3	-	3	3	3	2	3	3	-	3
CO5	3	-	3	3	3	3	3	3	-	3
CO1	3	-	2	3	2	-	3	3	-	2

1-Low 2-Medium 3-High

School: SSHSS		**Batch: 2025-29**
Program: B.A. (Hons)		**Current Academic Year: 2025-26**
Branch: Economics		**Semester: VIII (i)**
1	Course Code	EOT4408
2	Course Title	Agriculture Economics
3	Credits	4
4	Contact Hours (L-T-P)	4-0-0
	Course Status	Inter/Multi - disciplinary course
5	Course Description	The Course is designed for the student's pursuing graduation with Economics in regular mode. The programme aims to inculcate economic thinking among the students in economic decision making by comprehending economic theory. The under graduate programme will have 8 Semesters in 4 years. In Seventh and Eighth Semester 01 paper is given as optional. In Seventh Semester it is proposed to have Dissertation/Project keeping in the spirit of the New Education Policy 2020 to introduce research at the graduation level.
6	Course Objective	The course has the following key objectives: 1. Analyze various models of agricultural development, agricultural production functions, supply response, and productivity in agriculture. 2. Explain the role of labor in agriculture, identify related issues, and evaluate rural poverty alleviation programs and policies. 3. Assess the role of agriculture in India's economic growth, examining linkages, resource allocation, and employment elasticity. 4. Evaluate the impact of land reforms, the Green Revolution, and the need for a second-generation Green Revolution in India.
7	Course Outcomes	After completion of the course, students will be able to CO1: **Understand** various models of agricultural development, agricultural production functions, supply response, and productivity in the agricultural sector. CO2: **Analyze** labor dynamics in agriculture, rural employment, poverty measurement, and current issues such as food security and agro-subsidies in India. CO3: **Evaluate** the role of agriculture in economic growth, its linkages with industry, and resource allocation under different economic plans. CO4: **Assess** the impact of land reforms, the Green Revolution, and the need for second-generation agricultural reforms in India. CO5: **Examine** the role of infrastructure, support systems, and agricultural credit from institutional and non-institutional sources in rural development. CO6: **Investigate** the role of banks, NABARD, and agricultural marketing structures, identifying challenges in agricultural product marketing post-economic reforms.
8	Outline syllabus	**CO Mapping**

	Unit 1	**Role of Agriculture in Economic Growth**	
	A	Role of Agriculture in Economic Growth and development in India, Backward and forward linkage between agriculture industry	**CO1**
	B	Approaches towards agriculture and allocation of resources under different plans in India.	**CO1**
	C	Employment Elasticity in Indian Agriculture, Challenges & Issues Regarding Agricultural Area Expansion, Production and Productivity in India (With Focus on Post Reform (Post 1991&1995) Period.	**CO1**
	Unit 2	**Labour in Agriculture; and Current Issues**	
	A	Labour in Agriculture- Interlocking of Factor Markets, Labour and Work Force in Rural Farm and Non-Farm Sectors.	**CO2**
	B	Agricultural Labour- Problem and Policy. Concept and Measurement of Rural Poverty & Employment, Poverty Alleviation Programmes (in brief-the Objectives, Achievements & the Shortcomings).	**CO2**
	C	Current Issues in Indian Agriculture-Poverty & Food Security in India, Agro-Subsidies in India, Subsidy Vs Public Investment.	**CO2**
	Unit 3	Models of Agricultural Development; and Agricultural Production	
	A	Models of Agricultural Development: Physiocrats approach, W.A. Lewis model, Fei &Ranis Model, Schultz Theory of Agricultural Development, Jorgenson's Dual Economy Model	**CO3**
	B	Agricultural Production Function, Supply Response, Farm Size, Returns to Scale and Productivity.	**CO3**
	C	Cobweb Theorems.	**CO3**
	Unit 4	**Land Reforms in India**	
	A	Land Reforms in India and its Cotemporary relevance, Green Revolution and Need for second Generation Green Revolution	**CO4**
	B	Role of Infrastructural Support- Irrigation, Power, Seeds Fertilizers, Marketing	**CO4**
	C	Support Systems and Roads in Agriculture Development in India	**CO5**
	Unit 5	**Role of Credit in agriculture and Agriculture Marketing**	
	A	Role of Credit in Agricultural Development, Institutional and Non-Institutional Sources of credit in India, Cooperative Movement in India	**CO5**
	B	Role of Schedule Commercial Banks, Lead Banks, Regional Rural Banks and NABARD to Promote Agricultural	**CO6**

		Development.		
	C	Agricultural Marketing: Meaning and Concept, Structure of Agricultural Markets in India, Issues and Challenges in the Marketing of Agricultural Products in India (With Focus on The Post Reform Period-Post 1991).		**CO6**
	Mode of examination	Theory		
11	Weightage Distribution	CA	MTE	ETE
		25%	25%	50%
	Readings/ Text Books	1. Bardhan, P.(1984)Land, Labour and Poverty; Essays in Economic Development, OUP, New Delhi**.** 2. Bhaduri, A.(1984),The Economic Structure of Backward Agriculture; Macmillan, Delhi. 3. Bhalla, G.S.,(2007) Indian Agriculture since Independence, National Book Trust, India 4. Bharadwaj, K.(1974),Production Condition in India Agriculture; OUP, Cambridge. 5. Dash, Mrutyunjay (2013):Agricultural Economics, Anmol Publications.		
	Other References	1. Griffin,K.(1973):Political Economy of Agrarian Change. . 2. Gupta,P.K(2012):Krishi Arthsastra, Vrinda Publications, Delhi. 3. Khusro,A.M.(1973),TheEconomicsofLandReformsandFarmSizeinIndia,MacMillan.		

Course Articulation Matrix

POs / Cos	PO1	PO2	PO3	PO4	PO5	PO6	PSO1	PSO2	PSO3	PSO4
CO1	3	-	2	3	-	-	3	3	-	-
CO2	3	-	3	3	-	2	3	3	-	2
CO3	3	-	3	3	2	-	3	3	-	-
CO4	3	-	-	3	2	2	3	3	-	3
CO5	2	-	2	3	3	3	3	3	-	3
CO6	3	-	-	3	3	3	3	2	-	3

1-Low 2-Medium 3-High

School: SSHSS		**Batch: 2025-29**	
Program: B.A. (Hons)		**Current Academic Year: 2025-26**	
Branch: Economics		**Semester: VIII (i)**	
1	Course Code	EOT4409	
2	Course Title	Urban Economics	
3	Credits	4	
4	Contact Hours (L-T-P)	4-0-0	
	Course Status	Multidisciplinary	
5	Course Description	This course explores the economic dynamics of urbanization, covering topics such as urban growth, local governance, labor markets, and urban policies. Students will analyze urban planning models, the role of government, and challenges related to urban poverty, crime, and employment. The course provides a comparative perspective on urbanization in developing and developed economies, with a special focus on India.	
6	Course Objective	The course has the following key objectives: 1. Explain the process of urbanization and its economic impact. 2. Examine urban governance, policies, and their effectiveness. 3. Analyze urban labor markets and employment challenges. 4. Assess urbanization trends, policies, and future urban development strategies.	
7	Course Outcomes	On completion of this course the students will be able to CO1: **Explain** the fundamentals of urban economics and urban growth models. CO2: **Analyse** the role of governance and policy frameworks in urban development. CO3: **Assess** issues related to urban poverty, crime, and informal labor markets. CO4: **Evaluate** urban labor market structures and the impact of globalization. CO5: **Discuss** urbanization trends and policies in India. CO6: **Examine** case studies of urban planning and development programs.	
8	Outline syllabus		
	Unit 1	**Introduction to Urban Economics**	
	A	Definition, Scope, and Importance of Urban Economic	**CO1**
	B	The Process of Urbanization and Causes of Urban Growth	**CO1**
	C	Urban Growth Models and Planning Strategies	**CO1**
	Unit 2	**Urban Governance and Policies**	
	A	Types of Local Government and Governance Structures	**CO2**
	B	Slum Areas, Urban Poverty, and Crime Management	**CO2**
	C	Urban Policy Measures and Their Effectiveness	**CO2**

	Unit 3	**Urban Labor Markets and Employment**		
	A	Informal Sector and Labor Market Dualism		**CO3**
	B	Globalization and Its Impact on Urban Employment		**CO3**
	C	Urbanization without Labor Absorption in India		**CO3**
	Unit 4	**Urbanization Trends and Policies in India**		
	A	Growth of Urban Population and Migration Trends		**CO4**
	B	Urban Development Policies and Government Initiatives		**CO4**
	C	Jawaharlal Nehru National Urban Renewal Mission (JNNURM)		**CO5**
	Unit 5	**Future Challenges and Opportunities in Urbanization**		
	A	Sustainable Urban Development and Smart Cities		**CO5**
	B	Climate Change and Urban Resilience		**CO6**
	C	Future Trends in Urban Economics		**CO6**
	Mode of examination	Theory		
11	Weightage Distribution	CA	MTE	ETE
		25%	25%	50%
	Readings/ Text Books	1. O'Sullivan, A. (2002) Urban Economics, McGraw-Hill Irwin. 2. Todaro Michael P Internal Migration in Developing Countries a review of Theory evidence methodology & research priorities, ILO Geneva 3. Shukla, V. (1996) Urbanization and Economic Growth, Himalaya Publishers 4. Briance A and Ravinder Singh, (edited) (1995) Housing the Urban Poor, Policy and Practice in Developing Countries, Sage Publications (New Delhi).		
	Other References	1. Hartwick, John M. (2015) Urban Economics, Routledge; 1st edition. 2. Button, K. J. (1976) Urban Economics Theory and Policy, Palgrave Macmillan UK. 3. Black, Duncan and Henderson, Vernon (1999), A Theory of Urban Growth, Journal of Political Economy, 1999, vol. 107, no. 2, The University of Chicago.		

Course Articulation Matrix

POs / Cos	PO1	PO2	PO3	PO4	PO5	PO6	PSO1	PSO2	PSO3	PSO4
CO1	3	-	2	3	-	-	3	2	-	3
CO2	3	-	3	3	2	-	3	3	-	2
CO3	2	-	3	3	3	2	3	-	-	3
CO4	3	-	-	3	2	2	2	3	-	3
CO5	3	-	2	3	3	3	3	2	-	3
CO6	2	-	3	3	-	3	3	3	-	2

1-Low 2-Medium 3-High

School:		**Sharda School of Humanities & Social Sciences**	
Batch :		**2025-29**	
Program:		**BA Economics**	
Current Academic Year:		**2025-26**	
Branch: -		**Semester: VIII (i)**	
1	Course Code	EOR4401	
2	Course Title	Research Project in Economics I	
3	Credits	04	
4	Contact Hours	0-0-8	
	Course Status	Research Project	
5	Course Description	This course provides students with the opportunity to apply economic concepts and analytical tools to a small-scale research project using secondary data. Students will identify research questions, conduct a literature review, collect and analyze secondary data from official and academic sources, and present their findings in a structured research report. The project work aims to build essential research, writing, and presentation skills.	
6	Course Objective	1. To introduce students to the process of conducting economic research using secondary data sources. 2. To enable students to frame researchable questions and review relevant literature. 3. To develop basic skills in data collection, tabulation, analysis, and interpretation. 4. To guide students in writing and presenting a concise project report based on empirical data.	
7	Course Outcomes	On completion of this course the learners will be able to **CO1**.**Choose** a research topic for project work. **CO2. Identify** research gaps, develop research objectives & hypotheses on the basis of review of literature. **CO3**. **Make use of** secondary data sources & preparation of data for data analysis. **CO4. Analyse**, visualize and interpret data using statistical methods such as descriptive statistics. **CO5. Conclude** the report writing of the project work in a proper format.. **CO6. Compose** a project work on the chosen research topic.	
8	**Outline syllabus**		**CO Mapping**
	Unit 1	**Identification of Research Topic**	
	A	Selection of a research topic relevant to economics based on personal interest and data availability.	**CO1**
	B	Formulation of tentative research questions & objectives	**CO1**
	C	Outlining the intended use of secondary data, sources, and the tools or methods for analysis	**CO1**

	Unit 2	**Conducting Literature Review**	
	A	Review of 5–10 academic articles, policy papers, or reports related to the topic.	**CO2**
	B	Outlining the introduction based on review of literature.	**CO2**
	C	Identification of research gaps, formulation of research questions. Designing of research objectives and hypotheses.	**CO2**
	Unit 3	**Data Collection**	
	A	Identification of Data Sources: Choose appropriate secondary data sources (e.g., RBI, World Bank, NSSO).	**CO3**
	B	Data Extraction and Compilation: Download, clean, and organize data in usable formats (e.g., Excel, Google Sheets).	**CO3**
	C	Data Description: Summarize the time period, variables, and nature of the data (cross-sectional, time-series, etc.).	**CO3**
	Unit 4	**Data Analysis**	
	A	Use of Secondary data for descriptive statistics (like mean, median, growth rate, or percentage change as needed).	**CO4**
	B	Visualization of data (tables, bar charts, line graphs, or pie charts for better data representation).	**CO4**
	C	Interpretation of analysis (trends, patterns, and preliminary insights drawn from the data).	**CO4**
	Unit 5	**Report Writing**	
	A	Structure and Formatting: Include sections like Introduction, Objectives, Literature Review, Data, Analysis, Findings, Conclusion, and References.	**CO5**
	B	Use a consistent format (APA, MLA, Chicago, etc.) for citing all sources and data.	**CO5**
	C	Preparation and submission of final Project work with plagiarism check below 10%	**CO6**
	Mode of examination	CA & Viva	
	Weightage Distribution	CA: 30% / CE: 30% / Viva: 40%	
	Text book/s*	8. C.R. Kothari & Gaurav Garg (2019) – Research Methodology – New Age International Publishers 9. Donald R. Cooper & Pamela Schindler (2013) – Business Research Methods – McGraw-Hill Education 10. Tom Clark et al. (2021) – Bryman's Social Research Methods – Oxford University Press 11. Damodar Gujarati & Dawn Porter (2009) – Basic Econometrics – McGraw-Hill Education 12. Krishnaswamy, O.R., & Ranganatham, M. (2011) – *Research Methodology in Social Sciences*, Himalaya Publishing House. 13. Kumar, Ranjit (2022) – *Research Methodology: A Step-by-Step Guide for Beginners*, Sage Publications.	

		14. Creswell, John W. (2018) – *Research Design: Qualitative, Quantitative, and Mixed Methods Approaches*, Sage Publications.
	Other References	5. Judith Bell et al. (2024) – Doing Your Research Project – Open University Press. 6. Brian White & Stephen Rayner (2014) – Dissertation Skills – Cengage Learning. 7. Wayne C. Booth et al. (2024) – The Craft of Research (5th ed.) – University of Chicago Press. 8. Acharyya, R. (Ed.), Bhattacharya, N. (Ed.). (2020). Research Methodology for Social Sciences. London: Routledge India.

Course Articulation Matrix

POs COs	PO1	PO2	PO3	PO4	PO5	PO6	PSO1	PSO2	PSO3	PSO4
CO1	2	2	2	1	1	2	3	2	2	1
CO2	2	3	2	2	2	3	3	3	2	2
CO3	1	2	2	3	2	3	2	3	3	2
CO4	1	3	2	3	3	2	2	3	3	3
CO5	2	2	2	2	2	3	3	2	2	2
CO6	2	3	2	2	2	3	3	3	3	2

1-Low 2-Medium 3-High

SEMESTER- VIII (ii) (HONOURS WITH RESEARCH)

Sr. No	Course Code	Course Name	L	T	P	Credits	Category
1	EOT4410	Economics of Environment & Resources	3	0	0	3	CC
2	EOT4407	Economics of Social Issues	4	0	0	4	Minor
3	EOP4410	Economics of Environment & Resources: Practices	0	0	2	1	Core Practical
4	EOR4403	Research Project in Economics III	0	0	18	9	Research Project
Semester 8 Credits: 17 Min : Max:							

School: SSHSS		**Batch: 2025-29**
Program: B.A. (Hons. with Research)		**Current Academic Year: 2025-26**
Branch: Economics		**Semester: VIII (ii)**
1	Course Code	EOT4410
2	Course Title	**Economics of Environment & Resources**
3	Credits	3
4	Contact Hours	3-0-0
	Course Status	Major-CC
5	Course Description	**Economics of Environment & Resources** course aims to provide students with an understanding of the economic principles related to environmental issues and the role of government policies in addressing environmental challenges. The course covers topics such as market failures, the valuation of environmental goods and services, natural resource management, and sustainable development. A special focus will be given to the Indian context, examining the country's major environmental issues, policies, and the balance between economic growth and environmental sustainability. Students will explore both theoretical and applied aspects of environmental economics, gaining the knowledge necessary to evaluate policies and contribute to sustainable economic development.
6	Course Objective	The course has the following objectives: 1. Analyze environmental issues using economic principles to assess their impact and implications. 2. Evaluate market failures, externalities, and policy interventions for environmental sustainability. 3. Apply economic valuation methods to measure environmental benefits and costs. 4. Understand sustainable development, climate change, and environmental regulations for informed decision-making.
7	Course Outcomes	On completion of this course the learners will be able to CO1: **Explain** key environmental issues, market failures due to externalities, and policy approaches, including Pigouvian taxes, tradable permits, and climate change economics. CO2: **Apply** environmental valuation methods, cost-benefit analysis, and sustainability concepts to assess environmental policies and their impact. CO3: **Analyze** the theory of externalities, the distinction between public and private goods, and Pigouvian solutions for market failures. CO4: **Examine** Indian and international environmental policies, key regulations, Sustainable Development Goals (SDGs), and global agreements. CO5: **Discuss** the relationship between population, environment, trade, and climate change, including major environmental challenges and legislative measures.

		CO6: **Assess** the role of the judiciary, carbon trading, and international institutions in environmental protection and conservation.	
8	Outline syllabus		**CO Mapping**
	Unit 1	**Introduction:**	
	A	Key environmental issues and problems, economic way of thinking about these problems, basic concepts from economics.	**CO1**
	B	Pareto optimality and market failure in the presence of externalities; property rights and other approaches.	**CO1**
	C	The Design and Implementation of Environmental Policy: Overview, Pigouvian taxes and effluent fees, tradable permits, implementation of environmental policies in India and international experience. trans-boundary environmental problems; economics of climate change.	**CO1**
	Unit 2	**Environmental Valuation and Sustainable Development**	
	A	Environmental Valuation Methods and Applications: Valuation of non-market goods and services—theory and practice.	**CO2**
	B	Measurement methods; cost-benefit analysis of environmental policies and regulations.	**CO2**
	C	Sustainable Development: Concepts; measurement; perspectives from Indian experience. Environmental Impact Assessment; Environmental Education and Awareness	**CO2**
	Unit 3	**Theory of Externality**	
	A	Positive & Negative Externality; Public Goods; Private Goods; Public Bads.	**CO3**
	B	Market Failure and Pigouvian Solution- Pigouvian Tax.	**CO3**
	C	Social Limits to Growth Model; Green Accounting. Environmental Valuation-Meaning, Need for Environmental Valuation, Methods of Environmental Valuation, Environmental Damages and Its Valuation.	**CO2**
	Unit 4	**International and Indian Policy and Regulation for Environment**	
	A	Indian Constitution and the Environment; Environmental Management-Meaning and Concept, Objectives and Goals, Obstacles, The role of the Indian government in achieving Sustainable Development Goals (SDGs)	**CO4**
	B	The role of the Indian government in environmental protection, Key policies and regulations: National Environmental Policy, Environmental Protection Act, and pollution control measures	**CO4**
	C	International Environmental Agreements: Key global environmental agreements: Paris Agreement, Kyoto Protocol, Rio Earth Summit; Role of international organizations (e.g., United Nations, World Bank)	**CO4**
	Unit 5	**Population & Environment**	
	A	Population and Environment; Trade and Environment in the WTO Regime.	**CO5**
	B	Climate Change- Meaning and Concept, Ozone Depletion, Acid Rain, Global Warming and Greenhouse Effect; Indian Environmental Issues and Legislations.	**CO5**
	C	Role of Judiciary in Environmental Protection and Conservation;	**CO6**

		International Environmental Issues, Carbon Trading.		
	Mode of examination	Theory		
11	Weightage Distribution	CA	MTE	ETE
		25%	25%	50%
	Readings/ Text Books	1. Bharucha, Erach. (n.d.). Paryavaran Adhyayan. Orient Blackswan. 2. Bhattacharya, Rabindra Nath. (2002). Environmental Economics – An Indian Perspective. Oxford University Press. 3. Eugine, T. (2005). Environmental Economics. Vrinda Publications, Delhi. 4. Jhingan, M.L. & Sharma, C.K. (2009). Environmental Economics: Theory, Management & Policy. Vrinda Publications, Delhi. 5. Kolstad, Charles D. (2012). Intermediate Environmental Economics. Oxford University Press. 6. Nagre, Vijay H. (2012). Environmental Economics. Chandralok Prakashan.		
	Other References	1. Singh, Kartar & Shishodia. (2007). Environmental Economics: Theory and Applications. Sage India. 2. Singh, S.R. (2012). Environmental Economics. APH Publishing Corporation, Delhi. 3. Smith, Stephen. (2011). Environmental Economics: A Very Short Introduction. Oxford University Press.		

Course Articulation Matrix

Pos / COs	PO1	PO2	PO3	PO4	PO5	PO6	PSO1	PSO2	PSO3	PSO4
CO1	3	-	-	3	2	-	3	3	-	2
CO2	3	-	2	3	-	-	2	3	-	-
CO3	3	-	3	3	2	-	3	3	-	3
CO4	3	-	3	3	3	2	3	3	-	3
CO5	2	-	-	3	3	2	3	3	-	2
CO6	2	-	-	-	3	3	-	3	-	2

1-Low 2-Medium 3-High

School: SSHSS		**Batch : 2025-29**
Program: B.A. (Hons. with Research)		**Current Academic Year: 2025-26**
Branch: Economics		**Semester: VIII (ii)**
1	Course Code	EOT4407
2	Course Title	Economics of Social Issues
3	Credits	4
4	Contact Hours	4-0-0
	Course Status	Minor
5	Course Description	The course *Economics of Social Issues* provides an in-depth exploration of the role economics plays in understanding and addressing key social challenges faced by societies. This course introduces students to economic theories and tools used to analyze pressing social issues such as poverty, inequality, healthcare, education, and environmental degradation. Students will learn how economic principles apply to social problems and evaluate the effectiveness of various policy interventions designed to mitigate these issues. Emphasizing the role of economic analysis in shaping social policies, this course prepares students to critically assess the economic aspects of societal challenges and contribute to informed discussions on public policy.
6	Course Objective	The course has the following key objectives: 1. Explain the intersection between economics and social issues, including poverty, inequality, healthcare, education, and environmental challenges. 2. Analyze social problems through an economic lens to assess their causes, impacts, and possible solutions. 3. Evaluate the effectiveness of government interventions, market-based solutions, and social policies in addressing societal challenges. 4. Examine concepts of justice, equity, and sustainable development to develop critical thinking on economic and social policies.
7	Course Outcomes	On completion of this course the learners will be able to CO1: **Define** and demonstrate a clear understanding of the major social issues from an economic perspective, including their causes, impacts, and potential solutions. CO2: **Illustrate** and utilize economic frameworks to analyze and interpret complex social problems, recognizing market failures, government intervention, and externalities. CO3: **Identify** and critically evaluate the success and limitations of social policies aimed at tackling issues such as inequality, education, healthcare, and environmental sustainability. CO4: **Analyze** and communicate economic analyses and policy recommendations clearly, both in writing and verbally, to a diverse audience. CO5: **Determine** and apply economic concepts and reasoning to global

		challenges, recognizing the interconnectedness of local and global social issues, and propose feasible solutions to Social problems, balancing efficiency with equity in the design and implementation of these policies.	
8	Outline syllabus		
	Unit 1	**Introduction to Economics and Social Issues**	
	A	Defining Social Issues in Economic Context: Economic Inequality; Poverty and Unemployment; Access to Healthcare and Education	**CO1**
	B	Agriculture distress; Contract Farming, Corporate Farming	**CO1**
	C	Economic Approaches to Social Problems: Cost-Benefit Analysis in Social Policy; The Role of Government in Addressing Social Issues; Theories of Justice and Equity in Economics	**CO1**
	Unit 2	**Poverty and Inequality**	
	A	Concepts and Measurement of Poverty: Absolute vs. Relative Poverty, Poverty Line and Indices, Global Poverty Trends, Poverty in India	**CO2**
	B	Economic Causes and Consequences of Inequality: Income and Wealth Distribution; Education and Skill Gaps; Globalization and Its Impact on Inequality	**CO2**
	C	Policies for Poverty Alleviation: Social Safety Nets and Welfare Programs; Microfinance and Poverty Reduction; Role of NGOs and International Organizations	**CO2**
	Unit 3	**Healthcare Economics**	
	A	Economic Models of Healthcare Systems: Public vs. Private Healthcare; Healthcare as a Merit Good; Health Insurance and Risk Pooling	**CO3**
	B	Market Failures in Healthcare: Asymmetric Information in Healthcare Markets; Externalities in Health (e.g., Epidemics); Government Intervention and Regulation	**CO3**
	C	Access and Equity in Healthcare: Universal Healthcare Systems; Healthcare Inequality and Social Determinants of Health; Global Health Challenges and Solutions	**CO2**
	Unit 4	**Education and Human Capital Development**	
	A	Economics of Education: Education as Investment in Human Capital; The Role of Education in Economic Development; Returns to Education: Individual and Societal Benefits	**CO4**
	B	Barriers to Education: Socioeconomic Disparities in Education Access; Gender and Education; Educational Policy and Inequality	**CO4**
	C	Education and Labor Market Outcomes: Skill Development and Economic Mobility; The Relationship Between Education and Employment; Education and Technological Change	**CO5**
	Unit 5	**Environmental Economics and Social Policy**	
	A	Economic Impact of Environmental Degradation: Climate Change and Its Economic Costs; Natural Resource Depletion; Waste Management	**CO5**

	B	Market-Based Approaches to Environmental Issues: Carbon Pricing and Emissions Trading; Externalities and Environmental Regulation; Sustainable Development and Green Economy		**CO6**
	C	Social Dimensions of Environmental Policy: Environmental Justice and Equity; Social Costs of Environmental Damage; Role of Community in Environmental Solutions		**CO6**
	Mode of examination	Theory		
11	Weightage Distribution	CA	MTE	ETE
		25%	25%	50%
	Readings Text book/s*	1. Lipsey, R.G. (2016). *Economics of Social Issues* (20th ed.). Pearson Education. 2. Ray, D. (2010). *Development Economics* (3rd ed.). Princeton University Press. 3. Piketty, T. (2014). *The Economics of Inequality*. Belknap Press. 4. Gruber, J. (2017). *Public Finance and Public Policy* (6th ed.). Worth Publishers.		
	Other References	1. Folland, S., Goodman, A.C., & Stano, M. (2016). *The Economics of Health and Health Care* (7th ed.). Pearson Education. 2. Smith, S. (2011). *Environmental Economics: A Very Short Introduction*. Oxford University Press. 3. Hanushek, E.A., & Wößmann, L. (2012). *Education and the Economy: An International Perspective*. MIT Press. 4. O'Rourke, P. & Lavoie, M.S.L. (2015). *Introduction to International Development: Approaches, Actors, and Issues*. Sage Publications.		

Course Articulation Matrix

POs / Cos	PO1	PO2	PO3	PO4	PO5	PO6	PSO1	PSO2	PSO3	PSO4
CO1	3	-	2	3	-	-	3	2	-	3
CO2	3	-	3	3	2	-	3	3	-	2
CO3	2	-	3	3	3	2	3	-	-	3
CO4	3	-	-	3	2	2	2	3	-	3
CO5	3	-	2	3	3	3	3	2	-	3
CO1	3	-	2	3	-	-	3	2	-	3

1-Low 2-Medium 3-High

School: SSHSS		**Batch: 2025-29**
Program: B.A. (Hons. with Research)		**Current Academic Year: 2025-26**
Branch: Economics		**Semester: VIII (ii)**
1	Course Code	EOP4410
2	Course Title	**Economics of Environment & Resources: Practices**
3	Credits	1
4	Contact Hours	0-0-2
	Course Status	Core Practical
5	Course Description	**Economics of Environment & Resources: Practices** course aims to provide students with an understanding of the economic principles related to environmental issues and the role of government policies in addressing environmental challenges. The course covers topics such as market failures, the valuation of environmental goods and services, natural resource management, and sustainable development. A special focus will be given to the Indian context, examining the country's major environmental issues, policies, and the balance between economic growth and environmental sustainability. Students will explore both theoretical and applied aspects of environmental economics, gaining the knowledge necessary to evaluate policies and contribute to sustainable economic development.
6	Course Objective	The course has the following objectives: 1. Analyze environmental issues using economic principles to assess their impact and implications. 2. Evaluate market failures, externalities, and policy interventions for environmental sustainability. 3. Apply economic valuation methods to measure environmental benefits and costs. 4. Understand sustainable development, climate change, and environmental regulations for informed decision-making.
7	Course Outcomes	On completion of this course the learners will be able to CO1: **Explain** key environmental issues, market failures due to externalities, and policy approaches, including Pigouvian taxes, tradable permits, and climate change economics. CO2: **Apply** environmental valuation methods, cost-benefit analysis, and sustainability concepts to assess environmental policies and their impact. CO3: **Analyze** the theory of externalities, the distinction between public and private goods, and Pigouvian solutions for market failures. CO4: **Examine** Indian and international environmental policies, key regulations, Sustainable Development Goals (SDGs), and global agreements. CO5: **Discuss** the relationship between population, environment, trade, and climate change, including major environmental challenges and legislative

		measures. CO6: **Assess** the role of the judiciary, carbon trading, and international institutions in environmental protection and conservation.	
8	Outline syllabus		**CO Mapping**
	Unit 1	**Introduction:**	
	A	Key environmental issues and problems, economic way of thinking about these problems, basic concepts from economics.	**CO1**
	B	Pareto optimality and market failure in the presence of externalities; property rights and other approaches.	**CO1**
	C	The Design and Implementation of Environmental Policy: Overview, Pigouvian taxes and effluent fees, tradable permits, implementation of environmental policies in India and international experience. trans-boundary environmental problems; economics of climate change.	**CO1**
	Unit 2	**Environmental Valuation and Sustainable Development**	
	A	Environmental Valuation Methods and Applications: Valuation of non-market goods and services—theory and practice.	**CO2**
	B	Measurement methods; cost-benefit analysis of environmental policies and regulations.	**CO2**
	C	Sustainable Development: Concepts; measurement; perspectives from Indian experience. Environmental Impact Assessment; Environmental Education and Awareness	**CO2**
	Unit 3	**Theory of Externality**	
	A	Positive & Negative Externality; Public Goods; Private Goods; Public Bads.	**CO3**
	B	Market Failure and Pigouvian Solution- Pigouvian Tax.	**CO3**
	C	Social Limits to Growth Model; Green Accounting. Environmental Valuation-Meaning, Need for Environmental Valuation, Methods of Environmental Valuation, Environmental Damages and Its Valuation.	**CO2**
	Unit 4	**International and Indian Policy and Regulation for Environment**	
	A	Indian Constitution and the Environment; Environmental Management-Meaning and Concept, Objectives and Goals, Obstacles, The role of the Indian government in achieving Sustainable Development Goals (SDGs)	**CO4**
	B	The role of the Indian government in environmental protection, Key policies and regulations: National Environmental Policy, Environmental Protection Act, and pollution control measures	**CO4**
	C	International Environmental Agreements: Key global environmental agreements: Paris Agreement, Kyoto Protocol, Rio Earth Summit; Role of international organizations (e.g., United Nations, World Bank)	**CO4**
	Unit 5	**Population & Environment**	
	A	Population and Environment; Trade and Environment in the WTO Regime.	**CO5**
	B	Climate Change- Meaning and Concept, Ozone Depletion, Acid Rain, Global Warming and Greenhouse Effect; Indian Environmental Issues and Legislations.	**CO5**

	C	Role of Judiciary in Environmental Protection and Conservation; International Environmental Issues, Carbon Trading.		**CO6**
	Mode of examination	Practical		
11	Weightage Distribution	CA	CE	Viva
		30%	30%	40%
	Readings/ Text Books	1. Bharucha, Erach. (n.d.). Paryavaran Adhyayan. Orient Blackswan. 2. Bhattacharya, Rabindra Nath. (2002). Environmental Economics – An Indian Perspective. Oxford University Press. 3. Eugine, T. (2005). Environmental Economics. Vrinda Publications, Delhi. 4. Jhingan, M.L. & Sharma, C.K. (2009). Environmental Economics: Theory, Management & Policy. Vrinda Publications, Delhi. 5. Kolstad, Charles D. (2012). Intermediate Environmental Economics. Oxford University Press. 6. Nagre, Vijay H. (2012). Environmental Economics. Chandralok Prakashan.		
	Other References	1. Singh, Kartar & Shishodia. (2007). Environmental Economics: Theory and Applications. Sage India. 2. Singh, S.R. (2012). Environmental Economics. APH Publishing Corporation, Delhi. 3. Smith, Stephen. (2011). Environmental Economics: A Very Short Introduction. Oxford University Press.		

Course Articulation Matrix

Pos / COs	PO1	PO2	PO3	PO4	PO5	PO6	PSO1	PSO2	PSO3	PSO4
CO1	3	-	-	3	2	-	3	3	-	2
CO2	3	-	2	3	-	-	2	3	-	-
CO3	3	-	3	3	2	-	3	3	-	3
CO4	3	-	3	3	3	2	3	3	-	3
CO5	2	-	-	3	3	2	3	3	-	2
CO6	2	-	-	-	3	3	-	3	-	2

1-Low 2-Medium 3-High

School: SSHS		**Sharda School of Humanities & Social Sciences**	
Batch:		**2025-29**	
Program: B.A. (Hons with Research)		**B.A. Economics**	
Current Academic Year:		**2025- 26**	
Branch: - Economics		**Semester: VIII (ii)**	
1	Course Code	EOR4403	
2	Course Title	Research Project in Economics III	
3	Credits	09	
4	Contact Hours	0-0-18	
	Course Status	Research Project	
5	Course Description	This course provides students with the opportunity to apply economic concepts and analytical tools to a small-scale research project using secondary data. Students will identify research questions, conduct a literature review, collect and analyze secondary data from official and academic sources, and present their findings in a structured research report. The project work aims to build essential research, writing, and presentation skills.	
6	Course Objective	1. To introduce students to the process of conducting economic research using secondary data sources. 2. To enable students to frame researchable questions and review relevant literature. 3. To develop basic skills in data collection, tabulation, analysis, and interpretation. 4. To guide students in writing and presenting a concise project report based on empirical data.	
7	Course Outcomes	On completion of this course the learners will be able to **CO1**.**Choose** a research topic for project work. **CO2. Identify** research gaps, develop research objectives & hypotheses on the basis of review of literature. **CO3**. **Make use of** secondary data sources & preparation of data for data analysis. **CO4. Analyse**, visualize and interpret data using statistical methods such as descriptive statistics. **CO5. Conclude** the report writing of the project work in a proper format.. **CO6. Compose** a project work on the chosen research topic.	
8	**Outline syllabus**		**CO Mapping**
	Unit 1	**Revision, Update & Review**	
	A	Revise the Research Project-01work.	**CO1**
	B	Alignment in the Research Project-01 & 02 work as per the	**CO1**

		objectives of the study.		
	C	Choose only relevant achievable research topic.		**CO1**
	Unit 2	**Conducting Literature Review**		
	A	Extend and update the literature review.		**CO2**
	B	Revise & update the citation in research project-02.		**CO2**
	C	Align the research work and research gap.		**CO2**
	Unit 3	**Identifying the Data Sources**		
	A	Identifying the data sources & variables.		**CO3**
	B	Collection and extraction of data.		**CO3**
	C	Preparation of collected data.		**CO3**
	Unit 4	**Data Analysis**		
	A	Identifying the analytical techniques, statistical tools (Excel, SPSS, R, etc.) for data analysis		**CO4**
	B	Interpret trends, relationships, and policy implications.		**CO4**
	C	Prepare an analysis summary based on tables, graphs, and suitable models from data.		**CO4**
	Unit 5	**Findings & Discussion**		
	A	Compare results with existing literature and prepare concluding finding of research work.		**CO5**
	B	Discussion on key findings.		**CO5**
	C	Preparation and submission of final Project work with plagiarism check below 10%		**CO6**
	Mode of examination	CA & Viva		
	Weightage Distribution	CA	CE	Viva
		30%	30%	40%
	Text book/s*	1. C.R. Kothari & Gaurav Garg (2019) – Research Methodology – New Age International Publishers 2. Donald R. Cooper & Pamela Schindler (2013) – Business Research Methods – McGraw-Hill Education 3. Tom Clark et al. (2021) – Bryman's Social Research Methods – Oxford University Press 4. Damodar Gujarati & Dawn Porter (2009) – Basic Econometrics – McGraw-Hill Education 5. Krishnaswamy, O.R., & Ranganatham, M. (2011) – *Research Methodology in Social Sciences*, Himalaya Publishing House. 6. Kumar, Ranjit (2022) – *Research Methodology: A Step-by-Step Guide for Beginners*, Sage Publications. 7. Creswell, John W. (2018) – *Research Design: Qualitative, Quantitative, and Mixed Methods Approaches*, Sage Publications.		
	Other References	1. Judith Bell et al. (2024) – Doing Your Research Project – Open University Press. 2. Brian White & Stephen Rayner (2014) – Dissertation Skills – Cengage Learning. 3. Wayne C. Booth et al. (2024) – The Craft of Research (5th ed.) –		

		University of Chicago Press. 4. Acharyya, R. (Ed.), Bhattacharya, N. (Ed.). (2020). Research Methodology for Social Sciences. London: Routledge India.

Course Articulation Matrix

POs COs	PO1	PO2	PO3	PO4	PO5	PO6	PSO1	PSO2	PSO3	PSO4
CO1	2	2	2	1	1	2	3	2	2	1
CO2	2	3	2	2	2	3	3	3	2	2
CO3	1	2	2	3	2	3	2	3	3	2
CO4	1	3	2	3	3	2	2	3	3	3
CO5	2	2	2	2	2	3	3	2	2	2
CO6	2	3	2	2	2	3	3	3	3	2

1-Low 2-Medium 3-High