ETERNAL UNIVERSITY

(ESTABLISHED UNDER HIMACHAL PRADESH GOVERNMENT ACT NO.3 OF 2009)

BARU SAHIB HIMACHAL PRADESH



WORLD PEACE THROUGH VALUE BASED EDUCATION

AKAL COLLEGE OF ARTS & SOCIAL SCIENCES

B.A. (HONS. WITH RESEARCH) LIBERAL ARTS WITH ECONOMICS AS MAJOR/MINOR CURRICULUM (SEMESTR I TO IV)

APPROVED VIDE ANNEXURE 4.4.6 OF 87TH ACADEMIC COUNCIL MEETING HELD ON 25TH JULY, 2025

TO BE IMPLEMENTED FROM THE ACADEMIC SESSION 2025-26

Dean

Academic Affairs Eternal University Baru Sahib (H.P.) 173101 Registrar (Officiating)
Eternal University
Baru Sahib (H.P.) 173101

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AKAL COLLEGE OF ARTS & SOCIAL SCIENCES

BA (HONS WITH RESEARCH) LIBERAL ARTS SYLLABUS (AS PER NEP-2020) ECONOMICS AS MAJOR & MINOR

(To be Effective from the Academic Session 2025-26)

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BA (Hons with Research) Liberal Arts

1. NATURE AND EXTENT OF THE PROGRAM

Liberal arts education is a comprehensive approach to learning that emphasizes a broad and interdisciplinary curriculum, fostering critical thinking, creativity, and a well-rounded understanding of the world. Rather than focusing solely on specialized or vocational training, liberal arts education encourages students to explore a diverse range of subjects, including humanities, social sciences, natural sciences, and the arts. At its core, liberal arts education seeks to cultivate intellectual curiosity, analytical skills, and effective communication abilities. By studying subjects such as literature, philosophy, history, mathematics, and languages, students develop a deep appreciation for the complexities of human experience and the interconnectedness of knowledge across disciplines.

Key components of a liberal arts education include:

Interdisciplinary Approach: Liberal arts programs encourage students to explore connections between different fields of study, recognizing that complex problems often require interdisciplinary solutions. This interdisciplinary approach promotes holistic thinking and problem-solving skills.

Critical Thinking and Analysis: Liberal arts education places a strong emphasis on critical thinking, encouraging students to question assumptions, evaluate evidence, and develop reasoned arguments. Through rigorous analysis of texts, data, and concepts, students learn to approach problems with intellectual rigor and open-mindedness.

Communication Skills: Effective communication is a cornerstone of liberal arts education. Students learn to express their ideas clearly and persuasively through writing, speaking, and visual communication. These communication skills are valuable in both academic and professional contexts.

Cultural Literacy: Liberal arts education provides students with a broad understanding of diverse cultures, histories, and perspectives. By studying literature, art, religion, and philosophy from different time periods and regions, students develop empathy, tolerance, and cross-cultural competence.

Lifelong Learning: Beyond acquiring specific knowledge or skills, liberal arts education fosters a love of learning that extends beyond the classroom. Students are encouraged to pursue intellectual interests, engage with new ideas, and adapt to an ever-changing world throughout their lives.

Overall, liberal arts education prepares students for success in a wide range of careers and endeavors by equipping them with transferable skills, a global perspective, and a deep appreciation for the richness of human experience. It empowers individuals to think critically, communicate effectively, and make meaningful contributions to society.

Liberal Arts encompass a wide range of subjects that typically include:

- Literature
- Linguistics
- Language
- Psychology
- Political Science
- Economics
- History
- Music
- Interdisciplinary Studies

At Eternal University, Bachelor of Arts (Hons with Research) Liberal Arts Program is an undergraduate degree program that offers students the opportunity to pursue anin-depth study of liberal arts subjects while also engaging in original research within their chosen field of interest. This specialized program combines the breadth of a liberal arts education with the depth and rigor of academic research, preparing students for advanced study or professional careers in a variety of fields.

Eternal University, BA (Hons with Research) Liberal Arts program includes:

Interdisciplinary Curriculum: Students typically study a wide range of subjects within the liberal arts, including humanities, social sciences, natural sciences, and the arts. This interdisciplinary approach encourages students to explore connections between different disciplines and develop a broad understanding of human culture, society, and knowledge.

Research Component: The research component of the program allows students to conduct original research under the guidance of faculty mentors. This may involve designing research projects, collecting and analyzing data, and presenting findings in written form or through oral presentations.

Thesis or Capstone Project: Many BA Honors with Research programs culminate in a thesis or capstone project, in which students demonstrate their ability to conduct independent research and contribute new insights to their field of study. This project is often a substantial piece of scholarly work that is presented to faculty members and peers.

Faculty Mentorship: Students in these programs often benefit from close mentorship relationships with faculty members who are experts in their field. Faculty mentors provide guidance and support throughout the research process, helping students refine their research questions, develop methodologies, and interpret findings.

Critical Thinking and Analytical Skills: Through coursework and research experiences, students develop advanced critical thinking and analytical skills. They learn to evaluate evidence, formulate hypotheses, and make reasoned arguments, skills that are highly valued in academia and many professional fields.

Preparation for Advanced Study or Careers: BA (Hons with Research) Liberal Arts provides a strong foundation for students who plan to pursue further study at the graduate level, such as a master's or doctoral degree. It also equips students with transferable skills that are valuable in a variety of careers, including research, education, public policy, and cultural institutions.

Overall, BA (Hons with Research) Liberal Arts offers students a unique opportunity to engage deeply with their academic interests, develop advanced research skills, and make original contributions to knowledge in their chosen field. It prepares graduates to succeed in a rapidly changing world by fostering intellectual curiosity, creativity, and a commitment to lifelong learning.

The program is embedded with choice of Multidisciplinary Generic Electives i.e., outside their core discipline, along with choice-based value-added courses (VAC) and ability enhancement compulsory courses (AECC) available on the university basket.

The program offers avenues to the students to enter and exit from certificate, diploma, three years degree, four years degree with research and finally provide them with the opportunity to integrate with one year master's program as per recommendations of National Education Policy2020. This program is envisaged to be conducted in accordance with Bloom's Taxonomy pedagogy. The layout of all the courses in the program is structurally designed with three levels of thinking and each course learning outcome has been mapped with program outcomes.

The course has been designed as per the National Education Policy guidelines and has some specific features including:

- 1. Option to exit with Certificate in Liberal Arts (total credit = 44, provided submission of proof of any vocational training received during summer break after end term exam), Diploma in Liberal Arts (Total credit = 88), three-year Degree (total credit = 132), and Degree (Hons.) with research (total Credit = 176) after one-, two-, three- and four-year program respectively completed successfully.
- 2. The curriculum of each year, with two semesters each, has been designed in such a way that after completion of each level, the student is able to have a complete set of information with specific academic component.
- **3.** The emphasis on practical training through internship meaningfully designed courses has been given for skill development.

2. PROGRAM EDUCATION OBJECTIVES (PEOs)

After completing BA (Hons with Research) Liberal Arts students will be able to:

S. No.	Education Objectives
	Graduates of the program will be able to critically evaluate complex issues, arguments, and information from multiple perspectives, demonstrating the ability to think analytically and make informed judgments.
	Graduates will possess strong written, oral, and visual communication skills, enabling them to articulate their ideas clearly and persuasively to diverse audiences in academic, professional, and civic contexts.
	Graduates will have a broad understanding of the interconnectedness of knowledge across disciplines within the liberal arts, recognizing the value of integrating insights from different fields to address complex problems and explore diverse perspectives.
	Graduates will demonstrate an appreciation for cultural diversity and global interconnectedness, understanding the historical, social, and cultural contexts that shape human experiences and societies around the world.
	Graduates will exhibit ethical awareness and a commitment to social justice, demonstrating the ability to engage responsibly and ethically in their communities and contribute positively to societal well-being.

3. GRADUATE ATTRIBUTES

S. No.	Attributes	Description
1	Professional/ Disciplinary Knowledge	Capable of demonstrating comprehensive knowledge and understanding of one or more disciplines like Language, Literature, Economics, Political Science and Psychology as part of Liberal arts undergraduate program.
2	Practical skills	Empowers graduates with transferable research and analytical skills. These skills include data analysis, research design, and critical thinking, preparing them to tackle complex problems across diverse careers in Economics, Political Science and Social Sciences.
3	Communication Skill	Ability to develop adaptable communication skills. They can tailor their message (written, oral, or visual) to effectively engage diverse audiences, whether presenting research findings to academics, crafting policy briefs for government officials, or explaining complex social science concepts to the public.
4	Cooperation/Team work	Ability to work effectively and respectfully with diverse teams; facilitate cooperative or coordinated effort on the part of a group, and act together as a group or a team in the interests of a common cause and work efficiently as a member of a team like in the field of conflict resolution, consulting and decision making.
5	Professional ethics	Ability to develop a strong ethical compass. They gain awareness of ethical dilemmas in the liberal arts fields and a commitment to responsible conduct throughout their careers.
6	Research / Innovation- related Skills	Ability to analyze, interpret and draw conclusions from quantitative/qualitative data; and critically evaluate ideas, evidence and experiences from an open-minded and reasoned perspective.

7	Critical thinking and problem solving	Capability to apply analytic thought to liberal arts fields; analyze and evaluate evidence, arguments, claims, beliefs on the basis of empirical evidence; identify relevant assumptions or implications; formulate coherent arguments; critically evaluate practices, policies and theories by following scientific approach to knowledge development.
8	Reflective thinking	Critical sensibility to lived experiences, with self- awareness and reflexivity of both self and society.
9	Information/digital literacy	Capability to use ICT in a variety of learning situations, demonstrate ability to access, evaluate, and use a variety of relevant information sources; and use appropriate software for analysis of data for understating issues in social domain.
10	Multi-cultural competence	Possess knowledge of the values and beliefs of multiple cultures and a global perspective; and capability to effectively engage in a multicultural society and interact respectfully with diverse groups.
11	Leadership readiness/qualities	Capability for mapping out the tasks of a team or an organization, and setting direction, formulating an inspiring vision, building a team who can help achieve the vision, motivating and inspiring team members to engage with that vision, and using management skills to guide people to the right destination, in a smooth and efficient way.
12	Lifelong learning	Ability to acquire knowledge and skills, including 'learning how to learn', that are necessary for participating in learning activities throughout life, through self-paced and self-directed learning aimed at personal development, meeting economic, social and cultural objectives, and adapting to changing trades and demands of workplace through knowledge/skill development/reskilling.

4. QUALIFICATION DESCRIPTORS

- Systematic knowledge and understanding of an academic field: Students will gain a broad Understanding in the myriad fields of Liberal Arts and Social Sciences, encompassing Language, Literature, Political Science, Economics, and Psychology and all other pertinent fields of Liberal Arts. They will develop a critical understanding of core theories, principles, and current issues within each chosen specialization.
- **Procedural knowledge for different professions:** The program equips students with transferable skill set that is applicable to various professions in research, government, public service, and non-profit sectors. Specialization courses will introduce students to the practices and methodologies used by professionals in their chosen field (e.g., political analysis, economic research, or psychological counseling, content creation etc).
- Skills in areas related to specialization: Students will develop specialized research, analysis, and critical thinking skills relevant to their chosen field. Political Science might involve analyzing political data, understanding international relations, or critiquing political ideologies. Economics might involve econometric analysis, modeling, or policy evaluation. Psychology might involve data analysis, experimentation, or psychological assessment techniques.
- Comprehensive knowledge of scholarly materials: Students will be exposed to current research, scholarly literature, and data analysis methods specific to Political Science, Economics, and Psychology. The program equips students with the ability to identify and critically evaluate sources in their chosen field.

- Information gathering and data analysis: Students will develop skills to identify information needs, collect relevant data (both quantitative and qualitative), and analyze it using appropriate methodologies. This could involve analyzing political polls, economic indicators, or psychological test results, depending on the specialization.
- Critical thinking and problem solving: The program emphasizes Critical Thinking and Inquiry. It will embark students with the expertise to apply critical thinking skills to evaluate arguments, evidence, and ideas, discerning logical reasoning and identifying assumptions, biases, and fallacies. It will also engage in scholarly inquiry and research, formulating research questions, conducting literature reviews, and synthesizing information from multiple sources to generate original insights and interpretations.
- Interdisciplinary Integration: Students will be able to integrate insights from diverse disciplines within the liberal arts, synthesizing knowledge from literature, history, philosophy, social sciences, natural sciences, and the arts to address complex problems and explore interdisciplinary connections. They will collaborate with peers and experts from different fields to generate interdisciplinary solutions to real-world challenges and engage in meaningful dialogue across disciplinary boundaries.
- Communication Expression& Research results: Students will foster in them an approach to Communicate effectively through various mediums, including written essays, oral presentations, and visual representations, demonstrating clarity, coherence, and persuasiveness in expression. They will employ creative and innovative approaches to expression, adapting communication styles to different audiences and purposes, and utilizing diverse forms of media and technology. They will also be well equipped to communicate their findings effectively, both in writing and orally using the terminology and concepts specific to their chosen specialization. This could involve writing research papers, presenting findings at conferences, or creating policy briefs.

5. PROGRAM OUTCOMES (POs)

S. No.	Attribute	Competency
PO1	Professional knowledge	Graduates will demonstrate a deep understanding of key concepts, theories, and practices relevant to their chosen field(s) of interest within the liberal arts, such as literature, history, economics, philosophy, social sciences, natural sciences, or the arts.
PO2	Ethical value & professionalism	Graduates will exhibit ethical awareness and professional integrity in their interactions with colleagues, clients, and stakeholders, adhering to ethical standards and best practices relevant to their chosen field(s) of study and professional endeavors.
PO3	Communication	Graduates will demonstrate creativity and innovation in their communication skills and will develop an enhanced approach to problem-solving and expression, generating novel ideas, solutions, and interpretations that challenge conventional thinking and expand intellectual horizons.
PO4	Evidence based practice/learning	Graduates will demonstrate proficiency in research methods and scholarly inquiry, conducting independent research projects, evaluating academic sources, and contributing original insights to their chosen field of study.

]	leadership and mentorship	Graduates will engage as responsible citizens and leaders in thei communities, demonstrating a commitment to an encouraging pathway to honing their entrepreneurship skills, they will contribut to social justice, equity, and the common good through civil engagement, advocacy, and service.
		to social justice, equity, and the common good through civengagement, advocacy, and service.

6. PROGRAM SPECIFIC OUTCOMES (PSOs)

S. No.	Competency
PSO1	Graduates will demonstrate the ability to integrate insights from multiple disciplines within the liberal arts, synthesizing knowledge from fields such as literature, economics, history, philosophy, social sciences, natural sciences, and the arts to address complex problems and explore connections between different areasof study.
PSO2	Graduates will exhibit cultural competence and global awareness, understanding the cultural diversity of human societies and appreciating the interconnectedness of local, national, and global perspectives through the study of literature, economics, history, languages, and cross-cultural interactions.
PSO3	Graduates will demonstrate creativity and innovation in their approach to problem- solving, expression, and inquiry, generating original ideas, interpretations, and solutions that challenge conventional thinking and contribute to intellectual and cultural discourse.
PSO4	Graduates will be prepared to pursue further study at the graduate level or to enter a variety of career paths, including but not limited to academia, education, publishing, media and communications, cultural institutions, public service, non-profit organizations, and the creative industries, equipped with the knowledge, skills, and values needed to succeed in diverse professional and academic contexts.

BA (Hons with Research) Liberal Arts

7. SEMESTER-WISE COURSE STRUCTURE: ECONOMICS AS MAJOR SUBJECT

SEMESTER - I

Course	Course	Course Title	Credit D	istributio	n (Hours/	Week)
Code	Category	Course Title	L	T	P	C
0210111010	DSC-A1	Principles of Microeconomics	3	1	0	4
0210111020	DSC-A2	Basic Mathematics for Economics	3	1	0	4
	DSC-B1		3	1	0	4
	GE- 1	Language 1.1	3	1	0	4
	SEC-1	Any from pool				2
	AEC-1	Any from pool				2
	VAC-1	Any from pool				2
		Total				22

Note – L: Lecture Hour/week, T: Tutorial Hour/week, P: Practical Hour/week, C: Credits

SEMESTER - II

Course	Course	Course Tide	Credit D	istributio	n (Hours/	Week)
Code	Category	Course Title	L	T	P	C
0210121030	DSC-A3	Introductory Macroeconomics	3	1	0	4
0210121041	DSC-A4	Basic Statistics for Economics	3	0	1	4
	DSC-B2		3	1	0	4
	GE- 2	Language 2.1	3	1	0	4
	SEC-2	Any from pool				2
	AEC-2	Any from pool				2
	VAC-2	Any from pool				2
		Total				22

Note – L: Lecture Hour/week, T: Tutorial Hour/week, P: Practical Hour/week, C: Credits

SEMESTER - III

Course	Course	Course Title	Credit D	istributio	n (Hours/	Week)
Code	Category	Course Title	L	T	P	C
0210131050	DSC-A5	Intermediate Microeconomics I:	3	1	0	4
		Behavioral Foundations of Market				
		Interactions				
0210131060	DSC-A6	Mathematical Economics and	3	1	0	4
		Optimization				
	DSC-B3		3	1	0	4
	GE –3	Language 1.2	3	1	0	4
0210137011	IACP					2
	SEC-3	Any from pool				2
	AEC-3	Any from pool				2
	VAC- 3	Any from pool				2
						22

Note – L: Lecture Hour/week, T: Tutorial Hour/week, P: Practical Hour/week, C: Credits

SEMESTER - IV

Course	Course	Course Title	Credit D	istributio	n (Hours/	lours/Week)	
Code	Category	Course Title	L	T	P	C	
0210141070	DSC-A7	Intermediate Macroeconomics:	3	1	0	4	
		Foundations of Aggregate					
		Income					
		Determination					
0210141081	DSC-A8	Basic Econometrics	3	0	1	4	
	DSC-B4		3	1	0	4	
	GE – 4	Language 2.2	3	1	0	4	
0210137021	IACP					2	
	SEC-4	Any from pool				2	
	AEC-4	Any from pool				2	
	VAC-4	Any from pool				2	
		Total				22	

Note – L: Lecture Hour/week, T: Tutorial Hour/week, P: Practical Hour/week, C: Credits

SEMESTER - V

Course	Course	Common Titalo	Credit Distribution (Hours/Week			
Code	Category	Course Title	L	T	P	C
0210151090	DSC-A9	Intermediate Microeconomics II: Market, Government and Welfare	3	1	0	4
0210151100	DSC-A10	Development Economics	3	1	0	4
	DSC-B5	_	3	1	0	4
0210152010	DSE-1	Indian Monetary System				
0210152020	Choose any one	Money and Financial Markets	3	1	0	4
	GE-5	Any from pool	3	1	0	4
0210137031	IACP					2
	SEC-5	Any from pool				2
		Total				22

Note – L: Lecture Hour/week, T: Tutorial Hour/week, P: Practical Hour/week, C: Credits

SEMESTER - VI

Course	Course	Common Title	Credit D	istributio	n (Hours/	Week)
Code	Category	Course Title	L	T	P	C
0210161110	DSC-A11	Research Methods in Economics	3	1	0	4
0210161120	DSC-A12	International Trade	3	1	0	4
	DSC-B6		3	1	0	4
0210162030	DSE-2	Health Economics				
0210162040	Choose any one	Gender Economics	3	1	0	4
	GE- 6	Any from pool	3	1	0	4
0210137041	IACP					2
	SEC-6	Any from pool				2
		Total				22

Note – L: Lecture Hour/week, T: Tutorial Hour/week, P: Practical Hour/week,

SEMESTER - VII

Course	Course	C	Credit D	istributio	n (Hours	/Week)
Code	Category	Course Title	L	T	P	С
0210171130	DSC-A13	Economic Development of	2	1	0	4
		North-western Himalayas	3	1	U	4
0210172051	DSE 3	Elements of Big Data and Econometrics	3	0	1	4
0210172060	Choose any	Political Economy	3	1	0] "
	one	•				
0210172070	DSE 4	History of Economic				
	Choose any	Thought				
0210172080	one	Comparative Economic Development:	3	1	0	4
		India, Japan & South Korea				
	GE- 7	Any from pool				
0210172090	DSE 5	Labour Economics				
0210172100	Choose any	Agricultural Economics	3	1	0	4
	one		3	1	U	4
	GE-8					
0210178011		Dissertation on Major/Minor /				6
		Academic Project/Entrepreneurship				U
		Total				22

Note – L: Lecture Hour/week, T: Tutorial Hour/week, P: Practical Hour/week, C: Credits

SEMESTER - VIII

Course	Course	Community of the control of the cont	Credit D	istributio	n (Hours/	Week)
Code	Category	Course Title	L	T	P	C
0210181140	DSC-14	Growth and Development Perspectives of Indian Economy	3	1	0	4
0210182110	DSE 6	Public Economics				
0210182120	Choose any	Corporate Finance and Governance	3	1	0	4
	one	_				
0210182131	DSE 7	Time Series Analysis	3	1	0	
	Choose any	and Forecasting Models	3	1	U	
0210182140	one	Environmental Issues				4
		& Sustainable Development	3	0	1	
	GE- 9	Any from pool				
0210182150	DSE 08	Education Economics				
0210182160	Choose any	Open Economy	3	1	0	4
	one	Macroeconomics	3	1	U	4
	GE-10					
0210178021		Dissertation on Major/Minor /				6
		Academic Project/Entrepreneurship				0
		Total				22

 $Note-L: Lecture\ Hour/week,\ T:\ Tutorial\ Hour/week,\ P:\ Practical\ Hour/week,\ C:\ Credits$

Multidisciplinary Generic Electives (MGE)

Multidisciplinary Generic Electives is credited and choice-based. The students make a choice from pool of MGE offered by the Faculty under the University. (Reference: University Umbrella Multidisciplinary Generic Electives)

Value Added Courses (VAC) Value Added Courses is credited and choice-based. The students make a choice from pool of VAC offered by the Faculty under the University. (Reference: University Umbrella Value Added Courses)

Ability Enhancement Compulsory Course (AEC) Ability Enhancement Compulsory Courses is credited and choice-based. The students make a choice from pool of AEC offered by the Faculty under the University. (Reference: University Umbrella Ability Enhancement Compulsory Course)

Skill Enhancement Courses (SEC) Ability Enhancement Compulsory Courses is credited and choice-based. The students make a choice from pool of AEC offered by the Faculty under the University.

8. SEMESTER-WISE COURSE DETAILS: ECONOMICS AS MAJOR SUBJECT

SEMESTER - I

	Akal College of Arts & Social Science									
Name of	the Depar	Department Economics								
Name of	the Progr	am	BA (Hons with Research) Liberal Arts							
Course C	Code		02101110	10	•					
Course T	itle		Principle	s of Micro	economics					
Semester			I							
Number o			4 (3+1+0)							
Course Pr		e				curiosity or				
Course Sy	•		Fundamental Economics is designed to provide students' basic knowledge of the concepts of scarcity, opportunity cost, marginal decision making, trade offs demand, pricing, cost, production, and markets. The course also demonstrates how all these concepts help the students to make the rational decisions.							
Course C										
CO1	microed affect m		ey will also	o learn abo	out demand	and suppl	y analysis	and how el		
CO2	type of	lents will be able to derivation of Indifference curve, ICC and PCC with different of commodities will develop the analytically thinking of the students								
CO3	choose microec	the least cost conomics.	able to understand how producer do the long term adjustments and cost combination to produce. They will also learn applications in 1 be exposed to the features of perfect competition, efficiency and							
Mapping M=mediu	welfare of Cour	outcomes.	•		•	•		•		
COs	PO1	PO2	PO3	PO4	PO5	PSO1	PSO2	PSO3	PSO4	
CO1	3	2	1	1	3	3	3	3	3	
CO2	3	3	1	2	2	3	3	1	3	
CO3	3	3	1	2	3	3	3	2	3	
CO4	3	2	2 3 3 3 2 3							
Avg	3	2.5	1.25 2 2.75 3 3 2 3							
Course C	Content:	•								
L (Hrs./V	Veek)	(Hrs./	T Week)	(1	P Hrs./Week))		otal Week)		
3 1 0 4 Unit Content & Competencies										

1 Lec. (10)	Exploring the subject matter of Economics: Themes of microeconomics, positive vs normative analysis, problem of scarcity and choice, opportunity cost, market forces of supply and demand, Demand and Supply - Law of demand and Supply, Individual demand and supply, determinants of demand and supply, shifts in demand and supply curves. Elasticity: price elasticity of demand, degrees of price elasticity.
2	Consumer and Producer Behavior: Utility - Cardinal and ordinal Utility analysis - Law of
Lec. (11)	diminishing marginal utility; Diamond-water paradox, Budget constraint; Indifference curves
	– its Properties, Consumer surplus.
3	Production and Costs: Production Function: production decision of firm, technology of
Lec. (13)	production, short-run vs long- run; Production with one variable input, total, average and
	marginal product, three stages of production. Cost of production: traditional and modern cost
	concepts, short run and long run costs.
4	Perfect Competition: Perfectly competitive markets: marginal revenue, marginal cost and
Lec. (11)	profit maximization of the firm, equilibrium of the firm in the short run and long run;
, ,	industry's long run supply curve.

Teaching - Learning Strategies	Contact Hours	
Lecture	45	
Practical	-	
Seminar/Journal Club	0	
Small group discussion (SGD)	0	
Self-directed learning (SDL) / Tutorial	15	
Problem Based Learning (PBL)	-	
Case/Project Based Learning (CBL)	0	
Revision	0	
Others If any:	0	
Total Number of Contact Hours	60	

- Suggesting Readings:

 1. Bernheim, B., & Winston, M. (2009). Microeconomics. Tata McGraw-Hill.

 2. Frank, R. H., & Cartwright, E. (2010). Microeconomics and behavior. McGraw-Hill.

 3. Mankiw, N. G. (2018). Principles of Microeconomics (8th ed.)

		Akal College of Arts & Social Science									
Name of the	e Departme		conomics								
Name of th				th Resea	rch) Liberal 1	Arts					
Course Co		0210111020									
Course Tit	tle	Ba	Basic Mathematics for Economics								
Semester		I	I								
Number of Credits			(3+1+0)								
Course Pres											
Course Syn	•	an op co	This course introduces fundamental mathematical tools essential for economic analysis. Topics include algebraic manipulation, functions, derivatives, and optimization techniques. Emphasis is placed on applying mathematical concepts to economic models and problemsolving.								
Course Ou					s will be able						
CO1					thematical m			tants, numb	oer		
					ic analyses a						
CO2	of function	ons, usage o	of basic trig	gonometr	ations of diffic and some	standard f	unctions in	economics			
CO3	matrix, d	efinition an	d propertie	s of dete				-			
CO4					nite and inde				ods		
Manning 4		•				-			M=medium		
Mapping (or Course	Outcome	s (COs) ii	, iiogia	iii Outcom	cs (1 Os)	5 strong,	weak,	1VI megram		
COs	PO1	PO2	PO3	PO4	PO5	PSO1	PSO2	PSO3	PSO4		
CO1	3	2	2	3	3	3	3	3	3		
CO2	3	2	3	3	3	3	2	3	3		
CO3	3	1	2	3	2	2	2	3	3		
CO4	3	2	2	3	2	2	3	3	2		
Avg	3	1.75	2.25	3	2.5	2.5	2.5	3	2.75		
Course Co	ntent:										
L (Hrs./Wed	ek)	(Hrs./V			P (Hrs./Wee	k)	(H	Total Irs./Week))		
3		1			<u> </u>		•	4			
Unit	<u> </u>		F (1		ontent & Co						
Lec. (10)	para pair of fu	meters, eq s, Cartesiar unctions.	uations, an product o	d identiti f sets, Re	ies; Real nur elation, doma	mber systenin and ra	em; Sets and nge of relation	d set operations, functi			
2 Lec. (11)) deri diffe appl	Functions of Real Variable and their Applications: Limits and continuity of functions, derivatives: some standard functions and basic trigonometric functions, applications of differentiation in economics. Maxima and minima of functions of one variable and applications.									
3 Lec. (14)) mata	Elementary Linear Algebra: Matrices and Matrix Operations: addition, scalar multiplication, matrix multiplication, the transpose, the inverse of a square matrix, ranks, elementary row operations, invertible and rank for square matrices. Determinants: definition, properties, minors and cofactors, adjoint and inverse matrix. Cramer's Rule and their applications.									
4 Lec. (10)					nd indefinite : es: consumer				on, integration		

Teaching - Learning Strategies	Contact Hours
Lecture	45
Practical	-
Seminar/Journal Club	1
Small group discussion (SGD)	1
Self-directed learning (SDL) / Tutorial	4
Problem Based Learning (PBL)	-
Case/Project Based Learning (CBL)	1
Revision	7
Others If any:	1
Total Number of Contact Hours	60

- 1. Chiang, A & Wainwright, K. (2005). Fundamental methods of mathematical economics. Boston, Mass. McGraw-Hill.
- 2. Hoy, M., Livernois, J., McKenna, C., Rees, R., & Stengos, T. (2001). *Mathematics for Economics*, Prentice-Hall India.
- 3. Sydsaeter, K., & Hammond, P. (2002). Mathematics for economic analysis. Pearson Educational.

SEMESTER II

	Akal College of Arts & Social Science									
Name of the	Department	E	conomics							
Name of the	Program	B	A (Hons v	with Rese	earch) Lib	oeral Arts				
Course Cod	e	02	21012103	0						
Course Title	2	In	troducto	ry Macr	oeconom	ics				
Semester		II								
Number of C	Credits	4	(3+1+0)							
Course Prere	quisite									
Course Sync	psis	This course provides an overview of macroeconomic principles, focusing or								
	the behavior of aggregate economic variables such as GDP, inflati							_		
						de national		,	,	
								role of go	vernment in	
			abilizing			1	•	C		
Course Outc	omes: At the	end of th	e course s	students v	vill be ab	le to:				
CO1	Students wo	uld be al	ole to far	niliarize	with fou	ndation of	macroecon	omics, nation	nal	
	income aggre							•		
CO2	By studying						derstand th	e classical a	ınd	
	Keynesian m									
CO3	The student							ply of mor	ney	
	determinatio						•		-	
CO4	They will lea	arn to un	derstand	the deriv	ation and	d properties	of IS and	LM curves a	nd	
	general equil									
Mapping of	Course Out	comes (C	COs) to P	rogram (Outcome	s (POs) S=	strong, W=	weak, M=m	edium	
COs	PO1	PO2	PO3	PO4	PO5	PSO1	PSO2	PSO3	PSO4	
CO1	3	3	2	2	2	3	2	3	2	
CO2	3	3	3	3	2	3	3	3	2	
CO3	2	3	3	2	2	1	2	2	3	
CO4	2	3	3	3	3	2	2	3	2	
Avg	2.5	3	2.75	2.5	2.25	2.25	2.25	2.75	2.25	
Course Cont	ent:									
L		T			P			Total		
(Hrs./Week)	(H	lrs./Weel	k)	((Hrs./We	eek)		(Hrs./Week))	
3		1			0			4		
Unit	Content &	& Compe	tencies							
1								counting: In		
Lec. (11)			/					ics. Measur		
								P deflator, r		
								sed and open		
2	00 0		•	<i>_</i>				ate demand,		
Lec. (10)								tput and er	nployment	
3						mand, mult	•			
_		_		•	•			terminants, I		
Lec. (14)					_			e and its det		
								ey; supply for of money s		
	demand; c			CC III III	acioecoli	omics, act	cimmation	or money s	suppry and	
4				I IS_I M	Analysis	Fiscal and	Monetary	oolicy: object	tives tools	
Lec. (10)								ves; fiscal ar		
1(10)					una siiil	m me 15 a	and Livi cul	vos, mocar an	i inonetai y	
	poots of II.	tools of monetary policy multipliers								

Teaching - Learning Strategies	Contact Hours	
Lecture	45	
Practical	-	
Seminar/Journal Club	1	
Small group discussion (SGD)	1	
Self-directed learning (SDL) / Tutorial	4	
Problem Based Learning (PBL)	-	
Case/Project Based Learning (CBL)	1	
Revision	7	
Others If any:	1	
Total Number of Contact Hours	60	

- 1. Andrew A., Ben B., & Croushore, D. (2011). *Macroeconomics* (7th ed.). Pearson.
- Blanchard, O. (2006). Macroeconomics (6th ed.). Pearson
 Blanchard, O. (2017). Macroeconomics (7th ed.). Pearson
- 4. Dornbusch, R., Fischer, S., & Startz, R. (2014). *Macroeconomics* (11th ed.). McGraw-Hill.
- Richard, T.F. (2013). Macroeconomics: Theories and Policies (10thed.). Pearson.

Name of the Program BA (Hons with Research) Liberal Arts			Aka	ıl College	of Arts a	nd Social	Science			
Semester II	Name of the Pro	gram E	BA (Hon	s with Re	esearch) I	Liberal Ar	ts			
Semester II Number of Credits 4 (3+0+1) Understanding of basic statistical concepts and data analysis Course Objective	Course Code	0	0210121040							
Number of Credits	Course Title	H	Basic Statistics for Economics							
Course Objective	Semester	I	II							
This course aims to provide foundational mathematical tools for economic analysis. Students will learn to apply mathematical models, calculus, linear algebra, and integration to solve economic problems, equilibrium analysis, and applications like revenue, cost, and surplus calculations, enhancing their ability to interpret economic data. Course Synopsis	Number of Cred	its 4	4 (3+0+1)							
analysis. Students will learn to apply mathematical models, calculus, linear algebra, and integration to solve economic problems, equilibrium analysis, and applications like revenue, cost, and surplus calculations, enhancing their ability to interpret economic data. Course Synopsis This course introduces essential mathematical tools used in economic analysis. It covers the fundamentals of mathematical models, including variables, constants, and functions, and their applications in economics such as demand, supply, and utility functions. The course explores the functions of a real variable, focusing on limits, continuity, differentiation, and optimization techniques relevant to economics. Elementary linear algebra is introduced with applications to input-output analysis and equilibrium models. Additionally, students will learn integration techniques and their applications in calculating total revenue, total cost, and consumer/producer surplus. By the end of the course, students will be equipped to apply mathematical methods in solving various economic problems effectively. Course Outcomes: At the end of the course students will be able to: The student will be able to analyze the data using basic statistical concepts. They will also able to understand applications of measures of central tendency and dispersion for data interpretation. CO2 Students will be able to analyze the concept of correlation and regression methods in order to obtain the relationships between variables and datasets. They will also learn basic concepts of time series analysis and its related operations. CO3 Students will demonstrate competence in utilizing sampling and hypothesis testing enhancing their ability to engage with real world datasets. Mapping of Course Outcomes (CO3) to Program Outcomes (PO3) Sestrong, W=weak, M=medium CO4 Sudents will demonstrate competence in utilizing sampling and hypothesis testing enhancing their ability to engage with real world datasets. Mapping of Course Outcomes (CO3) to Program Outcomes (PO3)	Course Prerequi	site [Jndersta	nding of	basic stat	istical con	cepts and	l data analy	ysis	
Algebra, and integration to solve economic problems, equilibrium analysis, and applications like revenue, cost, and surplus calculations, enhancing their ability to interpret economic data. Course Synopsis	Course Objectiv	е Т	This cour	se aims	to provide	foundation	onal math	ematical to	ols for ec	onomic
This course introduces essential mathematical tools used in economic analysis. It covers the fundamentals of mathematical models, including variables, constants, and functions, and their applications in economics such as demand, supply, and utility functions. The course explores the functions of a real variable, focusing on limits, continuity, differentiation, and optimization techniques relevant to coronomics. Elementary linear algebra is introduced with applications to input-output analysis and equilibrium models. Additionally, students will learn integration techniques and their applications in calculating total revenue, total cost, and consumer/producer surplus. By the end of the course, students will be apply mathematical methods in solving various economic problems effectively. Course Outcomes: At the end of the course students will be able to: CO1		a	algebra, and integration to solve economic problems, equilibrium analysis, and applications like revenue, cost, and surplus calculations, enhancing their ability					sis, and		
and functions, and their applications in economics such as demand, supply, and utility functions. The course explores the functions of a real variable, focusing on limits, continuity, differentiation, and optimization techniques relevant to economics. Elementary linear algebra is introduced with applications to input- output analysis and equilibrium models. Additionally, students will learn integration techniques and their applications in calculating total revenue, total cost, and consumer/producer surplus. By the end of the course, students will be equipped to apply mathematical methods in solving various economic problems effectively. Course Outcomes: At the end of the course students will be able to: CO1	Course Synopsis					ial mathem	natical tool	ls used in e	conomic a	nalysis. It
The student will be able to analyze the data using basic statistical concepts. They will also able to understand applications of measures of central tendency and dispersion for data interpretation. CO2 Students will be able to analyze the concept of correlation and regression methods in order to obtain the relationships between variables and datasets. They will also learn basic concepts of time series analysis and its related operations. CO3 Students will familiarize with concepts of probability, random variables and normal distribution. CO4 Students will demonstrate competence in utilizing sampling and hypothesis testing enhancing their ability to engage with real world datasets. Mapping of Course Outcomes (COs) to Program Outcomes (POs) S=strong, W=weak, M=medium COs PO1 PO2 PO3 PO4 PO5 PSO1 PSO2 PSO3 PSO4 CO1 3 3 3 2 3 CO2 2 1 3 1 1 2 3 1 3 CO3 2 1 1 1 2 3 2 3 2 CO4 3 3 3 1 3 1 1 2 3 2 3 2 CO4 3 3 3 1 3 1 3 CO3 2 1 Avg 2.5 2 2 1.75 1.75 2.75 2.75 2 2.25 L Hours/Week) P (Hours/Week) P (Hours/Week) Total Hour/Week Meaning, Scope and Importance of Statistics, Collection, Organization and Presentation and Diagrammatic representation of Data; Measures of Central Tendency: Mean, Median, Mode, Geometric Mean, Harmonic Mean; Measure of Dispersion: Range, Quartile deviation, Mean deviation, Standard deviation, Skewness and Kurtosis.		a u li e o ii a t	covers the fundamentals of mathematical models, including variables, constants, and functions, and their applications in economics such as demand, supply, and utility functions. The course explores the functions of a real variable, focusing on limits, continuity, differentiation, and optimization techniques relevant to economics. Elementary linear algebra is introduced with applications to input-output analysis and equilibrium models. Additionally, students will learn integration techniques and their applications in calculating total revenue, total cost, and consumer/producer surplus. By the end of the course, students will be equipped					pply, and cusing on evant to to input-vill learn total cost, equipped		
able to understand applications of measures of central tendency and dispersion for data interpretation. CO2 Students will be able to analyze the concept of correlation and regression methods in order to obtain the relationships between variables and datasets. They will also learn basic concepts of time series analysis and its related operations. CO3 Students will familiarize with concepts of probability, random variables and normal distribution. CO4 Students will demonstrate competence in utilizing sampling and hypothesis testing enhancing their ability to engage with real world datasets. Mapping of Course Outcomes (COs) to Program Outcomes (POs) S=strong, W=weak, M=medium COs POI PO2 PO3 PO4 PO5 PSOI PSO2 PSO3 PSO4 COI 3 3 3 1 1 1 2 3 3 2 3 CO2 2 1 1 3 1 1 2 3 2 3 2 3 CO3 2 1 1 1 1 2 3 3 2 3 2 CO4 3 3 3 1 3 1 3 3 3 2 1 Avg 2.5 2 2 2 1.75 1.75 2.75 2.75 2 2.25 L T (Hours/Week) P (Hours/Week) Total Hour/Week Hours/Week) Total Hour/Week Content & Competencies Introduction and Overview Meaning, Scope and Importance of Statistics, Collection, Organization and Presentation and Diagrammatic representation of Data; Measure of Dispersion: Range, Quartile deviation, Mean deviation, Standard deviation, Skewness and Kurtosis. Correlation, Time Series and Index Numbers										
Interpretation. Students will be able to analyze the concept of correlation and regression methods in order to obtain the relationships between variables and datasets. They will also learn basic concepts of time series analysis and its related operations.	CO1									
Students will be able to analyze the concept of correlation and regression methods in order to obtain the relationships between variables and datasets. They will also learn basic concepts of time series analysis and its related operations. CO3				d applicat	ions of m	easures of	central ter	ndency and	dispersion	for data
to obtain the relationships between variables and datasets. They will also learn basic concepts of time series analysis and its related operations. CO3 Students will familiarize with concepts of probability, random variables and normal distribution. CO4 Students will demonstrate competence in utilizing sampling and hypothesis testing enhancing their ability to engage with real world datasets. Mapping of Course Outcomes (COs) to Program Outcomes (POs) S=strong, W=weak, M=medium COs PO1 PO2 PO3 PO4 PO5 PSO1 PSO2 PSO3 PSO4 CO1 3 3 3 2 3 2 3 CO2 2 1 3 1 1 2 3 1 3 CO3 2 1 1 1 1 2 3 1 3 2 CO4 3 3 3 1 3 1 3 1 3 2 CO4 3 3 3 1 3 1 3 1 3 3 2 3 2 CO4 4 3 3 3 1 3 1 3 1 3 3 2 2 3 CO4 4 3 3 3 1 3 1 3 1 3 1 3 2 2 3 2 CO4 3 3 3 1 3 1 3 1 3 1 3 2 CO5 L (Hours/Week) P (Hours/Week) Total Hour/Week Hours/Week Total Hour/Week Total Hour/Week Total Hour/Week Content & Competencies Introduction and Overview Meaning, Scope and Importance of Statistics, Collection, Organization and Presentation and Diagrammatic representation of Data; Measures of Central Tendency: Mean, Median, Mode, Geometric Mean, Harmonic Mean; Measure of Dispersion: Range, Quartile deviation, Mean deviation, Standard deviation, Skewness and Kurtosis. Correlation, Time Series and Index Numbers	CO2	_		-1- 41	l 41			1		. :
CO3	CO2									
Students will familiarize with concepts of probability, random variables and normal distribution. CO4 Students will demonstrate competence in utilizing sampling and hypothesis testing enhancing their ability to engage with real world datasets. Mapping of Course Outcomes (COs) to Program Outcomes (POs) S=strong, W=weak, M=medium COs PO1 PO2 PO3 PO4 PO5 PSO1 PSO2 PSO3 PSO4 CO1 3 3 3 2 3 2 3 CO2 2 1 3 1 1 2 3 1 3 CO3 2 1 1 1 1 2 3 2 3 2 3 CO4 3 3 3 1 3 1 3 1 3 1 3 2 CO4 4 3 3 3 1 3 1 3 1 3 1 3 2 2 3 CO4 4 3 3 3 1 3 1 3 1 3 1 3 1 3 2 2 2 2 2 2 2								is. They w	ili also ic	aiii basic
Students will demonstrate competence in utilizing sampling and hypothesis testing enhancing their ability to engage with real world datasets. Mapping of Course Outcomes (COs) to Program Outcomes (POs) S=strong, W=weak, M=medium	CO3	Students	will fan					random va	riables an	d normal
enhancing their ability to engage with real world datasets. Mapping of Course Outcomes (COs) to Program Outcomes (POs) S=strong, W=weak, M=medium	CO4			nonstrate	competer	nce in uti	lizing san	npling and	hypothesi	s testing
PO1									• • • • • • • • • • • • • • • • • • • •	
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CO2 2 1 3 1 1 2 3 1 3 2 CO3 2 1 1 1 1 1 2 3 2 3 2 3 2 CO4 3 3 3 1 3 1 3 1 3 3 3 2 1 1 3 2 CO4 3 3 3 1 3 1 3 1 3 3 3 2 1 1 3 3 1 3 3 3 2 1 1 3 1 3	CO1	3	3	3	2	3	3	3	2	3
CO3 CO4 CO4 CO5 CO4 CO5 CO5 CO5 CO5						_		2		_
CO4 3 3 1 3 1 3 1 3 2 1 Avg 2.5 2 2 1.75 1.75 2.75 2.75 2 2.25 L (Hours/Week) P (Hours/Week) Total Hour/Week (Hours/Week) 3 0 2 5 Unit Content & Competencies 1 Introduction and Overview Meaning, Scope and Importance of Statistics, Collection, Organization and Presentation and Diagrammatic representation of Data; Measures of Central Tendency: Mean, Median, Mode, Geometric Mean, Harmonic Mean; Measure of Dispersion: Range, Quartile deviation, Mean deviation, Standard deviation, Skewness and Kurtosis. 2 Correlation, Time Series and Index Numbers						_				
Avg 2.5 2 2 1.75 1.75 2.75 2.75 2 2.25 L (Hours/Week) P (Hours/Week) Total Hour/Week 3 0 2 5 Unit Content & Competencies Introduction and Overview Meaning, Scope and Importance of Statistics, Collection, Organization and Presentation and Diagrammatic representation of Data; Measures of Central Tendency: Mean, Median, Mode, Geometric Mean, Harmonic Mean; Measure of Dispersion: Range, Quartile deviation, Mean deviation, Standard deviation, Skewness and Kurtosis. 2 Correlation, Time Series and Index Numbers										
L (Hours/Week) T (Hours/Week) P (Hours/Week) Total Hour/Week B (Hours/Week) Total Hour/Week Total Hour/Week Total Hour/Week S (Hours/Week) Total Hour/Week F (Hours/Week) Total Hour/Week S (Hours/Week) Total Hour/Week S (Hours/Week) Total Hour/Week S (Hours/Week) Total Hour/Week S (Hours/Week) S (Hours/Week) Total Hour/Week S (Hours/Week) S (Hours/Week) Total Hour/Week S (Hours/Week) S (Hours/Week) Total Hour/Week						-	_	_		-
Content & Competencies	_									
Unit Content & Competencies Introduction and Overview Meaning, Scope and Importance of Statistics, Collection, Organization and Presentation and Diagrammatic representation of Data; Measures of Central Tendency: Mean, Median, Mode, Geometric Mean, Harmonic Mean; Measure of Dispersion: Range, Quartile deviation, Mean deviation, Standard deviation, Skewness and Kurtosis. Correlation, Time Series and Index Numbers	_	T (H	ours/We	ek)	Р (Hours/We	ek)	Tota	al Hour/W	eek
Unit Content & Competencies Introduction and Overview Lec. 11 Meaning, Scope and Importance of Statistics, Collection, Organization and Presentation and Diagrammatic representation of Data; Measures of Central Tendency: Mean, Median, Mode, Geometric Mean, Harmonic Mean; Measure of Dispersion: Range, Quartile deviation, Mean deviation, Standard deviation, Skewness and Kurtosis. Correlation, Time Series and Index Numbers			Λ			2			5	
1 Lec. 11 Introduction and Overview Meaning, Scope and Importance of Statistics, Collection, Organization and Presentation and Diagrammatic representation of Data; Measures of Central Tendency: Mean, Median, Mode, Geometric Mean, Harmonic Mean; Measure of Dispersion: Range, Quartile deviation, Mean deviation, Standard deviation, Skewness and Kurtosis. 2 Correlation, Time Series and Index Numbers			U		Conte		netencie	2		
Lec. 11 Meaning, Scope and Importance of Statistics, Collection, Organization and Presentation and Diagrammatic representation of Data; Measures of Central Tendency: Mean, Median, Mode, Geometric Mean, Harmonic Mean; Measure of Dispersion: Range, Quartile deviation, Mean deviation, Standard deviation, Skewness and Kurtosis. 2 Correlation, Time Series and Index Numbers	1	Introduc	tion and	Overvier		it & Com	peteneres	•		
and Diagrammatic representation of Data; Measures of Central Tendency: Mean, Median, Mode, Geometric Mean, Harmonic Mean; Measure of Dispersion: Range, Quartile deviation, Mean deviation, Standard deviation, Skewness and Kurtosis. Correlation, Time Series and Index Numbers						tatistics C	Collection	Organizatio	on and Pre	sentation
Mode, Geometric Mean, Harmonic Mean; Measure of Dispersion: Range, Quartile deviation, Mean deviation, Standard deviation, Skewness and Kurtosis. Correlation, Time Series and Index Numbers	Lec. 11	-								
deviation, Mean deviation, Standard deviation, Skewness and Kurtosis. Correlation, Time Series and Index Numbers		_	•							
2 Correlation, Time Series and Index Numbers								_	-	
	2									
Lec. 12 Correlation: Simple, Partial and Multiple; Regression analysis: regression lines and	Lec. 12	Correlation	on: Simp	le, Partia	l and Mu	ıltiple; Re	gression a	analysis: re	gression 1	ines and
equations, Time Series Analysis, Determination of Trend i.e. Linear, Quadratic and		equations	, Time S	Series Ar	alysis, D	eterminatio	on of Trei	nd i.e. Lin	ear, Quad	ratic and

			s and Fisher's index numbers; Problems in the			
			x numbers; Tests of an ideal index number.			
3		Probability Distributions	anahahility (Addition and Multiplication). Dandam			
Lec.	. 10		probability (Addition and Multiplication); Random ; Normal distribution: their properties, curve, uses and			
4		Sampling and Hypothesis Testing				
Lec.	. 12	test of significance; tests of significance	ng distribution; Concepts of testing of hypothesis and cance of proportion, mean, variance and correlation as only). Chi-square test for goodness of fit and			
Unit		I	Practical			
1.		ns based on measures of central tende and scale.	encies using raw data, grouped data and for change of			
2.	Problem and sca	<u>*</u>	using raw data, grouped data and for change of origin			
3.	directio		ble correlation coefficients to analyze the strength and c variables, and compute regression coefficients to s among them			
4.		conomic hypotheses using Z-test or ance of differences between economic	t-test to compare means, proportions, or assess the variables.			
5.	Perforn		dness of fit of observed data to expected distributions			
Teaching	g - Learı	ning Strategies	Contact Hours			
Lecture			45			
Practical			30			
Seminar/	Journal (Club	0			
		ussion (SGD)	0			
Self-directed learning (SDL) / Tutorial			0			
		earning (PBL)	0			
	,	ed Learning (CBL)	0			
Revision			0			
		sits to industries)	0			
Total Nu	mber of	Contact Hours	75			
Suggested Readings						

- 1. Anderson, D.R., & Sweeney, D.J. (2019). Statistics for Business & Economics. Cengage Learning.
- 2. James, M.P., George, B., & Terry, S. (2017). Statistics for Business and Economics. Pearson Publications.
- 3. Larsen, R., & Marx, M. (2011). An Introduction to Mathematical Statistics and its Applications, Prentice Hall.
- 4. Sheldon, R. (2017). Introductory Statistics. Academic Press.

		Akal	College of A	Arts and So	ocial Scienc	ee				
Name of the Depar	tment	Economics								
Name of the Progra		BA (Hons v	with Resear	ch) Liberal	Arts					
Course Code		021013105								
Course Title		Intermedia Interaction		economics-	-I: Behavi	oural F	oundations	of Market		
Semester		III								
Number of Credits		4 (3+1+0)								
Course Prerequisite	,	Learners ar	e expected	to have curi	iosity or inte	erest for e	conomics.			
Course Synopsis		This cours	e introduce	es microec	onomic the	eories of	consumer ar			
							vers utility ma			
							tive and non-			
							tions, income	distribution,		
C 0 1	C4 1 4	and real-wo		tions of mic	croeconomic	e models.				
Course Outcomes							. di			
CO1							ding preferen			
		zanon, bud ial demand a			meome an	u suosili	ution effects	w explain		
CO2					ontimal pr	oduction	and cost decis	ions in both		
CO2		t run and the		a determine	optimal pr	oduction	and cost deeps	ions in com		
CO3				der various	market stru	ictures su	ch as perfect of	competition,		
							output decision			
	impact of	of governme	ent regulation	n.						
CO4							stribution usir			
			and analyse	e outcomes	under comp	etitive an	nd non-compet	itive market		
	condition									
Mapping of Co	ourse O	utcomes ((COs) to	Program	Outcome	es (POs)& Progran	n Specific		
Outcomes:						200	7.00			
COs	PO1	PO2	PO3	PO4	PSO1	PSO2	PSO3	PSO4		
CO1 CO2	3	3	3 2	2 2	3 3	2	2	1		
CO2	3	2	2	3	2	2 2	0	2		
CO4	3	2	1	3	3	2	2	0		
Average	2.75	2.25	2	2.5	2.75	1.75	1.25	1		
L(Hours/Week)	!	(Hours/W	1		ours/Week	' '	Total Hou			
3	-	1	ceny	1 (11)	0	.,	4	17 77 0011		
Units	Conter	t & Comp	etencies			<u> </u>	-			
1				e and Utility	v. Utility Ma	ximizatio	on and Choice,	Budget and		
(Lec.10)				-	-		ticities in the	-		
, , ,	Necessi	ty, Inferior	and Superi	or Goods,	Effects of	governme	ent intervention	ons to price		
	controls	. Consumer	surplus and	d demand, N	Network Ext	ternalities				
2				_		•	-quant Maps			
			ion Cobb I	Douglas line	ear producti	on function	on, Elasticity S	Substitution,		
(Lec.12)				-	_	Profit Maximisation and Cost Minimisation; Cost Minimisation input Choices: Cost				
	Profit N	Maximisatio	n and Cost	t Minimisa	tion; Cost		_	noices: Cost		
	Profit N Function	Maximisatio	n and Cost	t Minimisa	tion; Cost		tion input Ch nanges in cost	noices: Cost		
(Lec.12)	Profit N Function curve	Maximisation ns, Short-ru	n and Cost in and Lon	t Minimisa g-run Disti	tion; Cost nctions, Dy	namic ch	nanges in cost	noices: Cost es- Learning		
(Lec.12)	Profit N Function curve Nature	Maximisation ns, Short-ru and Marke	n and Cost in and Lon	t Minimisa g-run Disti rs of Firm	tion; Cost nctions, Dy s: Profit Ma	rnamic ch eximisatio	nanges in cost on, Partial Equ	noices: Cost es- Learning ilibrium and		
(Lec.12)	Profit M Function curve Nature Compet	Maximisations, Short-ruand Marke itive Mode	n and Cost in and Lon et Behaviou	t Minimisa g-run Disti urs of Firmoly: Profi	tion; Cost nctions, Dy s: Profit Ma t Maximis	rnamic ch eximisation	on, Partial Equ d Output Ch	noices: Cost is- Learning ilibrium and noice, Price		
(Lec.12)	Profit M Function curve Nature Compet Discrim	Maximisations, Short-ru and Marke itive Mode ination, Reg	n and Cost in and Long et Behaviou els, Monop gulations of	t Minimisa g-run Disti urs of Firmoly: Profi	tion; Cost nctions, Dy s: Profit Ma t Maximis	rnamic ch eximisation	nanges in cost on, Partial Equ	noices: Cost is- Learning ilibrium and noice, Price		
(Lec.12)	Profit M Function curve Nature Compet Discrime and diff	Maximisations, Short-ruand Marke itive Mode ination, Regerent Model	n and Cost in and Long et Behaviou els, Monop gulations of is.	t Minimisa g-run Disti ars of Firm poly: Profi f Monopoly	tion; Cost nctions, Dy s: Profit Ma t Maximisa y; Imperfect	vnamic chaximisation and Competi	on, Partial Equal Output Chaition: Short-ru	ilibrium and noice, Price n Decisions		
(Lec.12) 3 (Lec.13)	Profit M Function curve Nature Compet Discrim and diff Theory	Maximisations, Short-ru and Marketitive Modelination, Regerent Model of Distrib	n and Cost in and Long et Behaviou els, Monop gulations of ls. ution and	t Minimisa g-run Disti urs of Firm ooly: Profi f Monopoly Pricing of	tion; Cost nctions, Dy s: Profit Ma t Maximiss y; Imperfect	vnamic chaximisation and Competion	on, Partial Equ d Output Ch	noices: Cost is- Learning ilibrium and noice, Price in Decisions it: Marginal		
(Lec.12) 3 (Lec.13)	Profit M Function curve Nature Compet Discrimand diff Theory Product	Maximisations, Short-ru and Marketitive Modelination, Reservent Model of Distribtivity Theory	n and Cost in and Long et Behaviou els, Monop gulations of ls. ution and y, demand	t Minimisa g-run Disti rs of Firm ooly: Profif f Monopoly Pricing of for and su	s: Profit Ma t Maximis y; Imperfect Factors in	examic characteristics aximisation and competition. Competition of particular control of	on, Partial Equent of Output Chaition: Short-ru	noices: Cost is- Learning illibrium and noice, Price in Decisions it: Marginal ctor Pricing		

Teaching - Learning Strategies	Contact Hours	
Lecture	45	
Practical	0	
Seminar/Journal Club	0	
Small group discussion (SGD)	0	
Self-directed learning (SDL) / Tutorial	10	
Problem Based Learning (PBL)	0	
Case/Project Based Learning (CBL)	0	
Revision	5	
Others If any: (Visits to industries)	0	·
Total Number of Contact Hours	60	_

- 1. Boumol., William., J. & Blinder, A.S. (2005). Microeconomics; Principles and Policy, 9th Edition, Thomson, 1st Indian Edition.
- 2. Dewett, K.K., & Navalur, M.H. (2015) Modern Economic Theory; S. Chand & Company Pvt. Ltd.
- 3. Ferguson, C.E., & Gould, J.P. (1989). Micro Economic Theory (6th Edition) All India Traveller Bookseller.
- 4. Koutsoyiannis, A. (1979). Modern Micro-Economics. McMillan Press, London.
- 5. Maddala, G.S., & Millelr, E. (1989). Micro Economics: Theory and Applications. Tata McGraw-Hill.
- 6. Mankiw, G.N. (1968). Principles of Economics; 3rd Edition, Thomson; 3rd Indian Reprint.
- 7. Pindyck, R.S., & Rubenfield, D. (2006). *Microeconomics*, Prentice Hall of India, New Delhi.
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Akal College of Arts and Social Science												
Name	of t	he Progra	m			search) Liber						
Cours				0210131060								
Cours						onomics and	Opti	mization				
Semes				III			- F					
		f Credits		4 (3+1+	0)							
Course Prerequisite Students should ha				,	ve knowledge	e of B	Rasic Mat	hematics				
		nopsis				s essential m				conor	nic ana	lysis and
Course	c Sy	порыз				Key topics						
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CO2						oroblems usin	g gra	phical an	d simplex	metho	ds. and	interpret
		ality in e			,		00.0	1 2 227 4471	P10/1		, 3110	P100
CO3					dels using	integration,	differ	ential ear	ations, and	d diffe	erence e	equations
					tem stabili				, un			1
CO4						eory concep	ts an	d apply	strategic	optim	ization	tools to
						decision-mak		- PP-J	2111112	opviii		10015 10
Manr						Program		tcomes	(POs)&	Prog	ram	Specific
Outco		•	urse st	iccomes	(005)	, 110g1 wiii	o u	ccomes	(105)	1108	51 WIII	Speeme
COs	7111	PO1	PO2	PO3	PO4	PSO1	P	PSO2	PSO3	3	P	SO4
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CO2		3	2	3	2	2		2	0			3
CO3		2	1	2	3	1		2	1			2
CO4		3	3	3	2	2		1	2			0
Avera	σe	2.75	2	2.5	2.25	2		2	1.25		1	1.75
	_	s/Week)		Hours/We		P (Hours/We	alz)		Total H			1.73
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	Un			1			Con	nn oton o	• 0.0	4		
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(I	Lec.	.13)				cations: Cons						
				_		ications: deri	_			_		
						equations, equ		um and 11	s stability;	first o	order di	fferential
						rential equati						
	2			_		with constra			1:4			
(I	Lec.	.10)		strained optimization with equality and inequality constraints: geometric acterization, Langrage characterization using calculus and applications; properties of								
								-	is and appl	icatio:	ns; proj	perties of
<u> </u>						orem, applica	tions.	•				
	3			Programi		_		_		_		
(I	Lec.	.12)				sumptions, gr						
]						of general LP						
			_		_	tion of dual, s		_				
						on planning						nization,
						n problems, o				v1our)		
	4					optimization				., .		, .
(I	Lec.	.10)				rices and str						
Ì		-	_		lication of	game theory	y in	economic	es: oligopo	oly m	odels,	auctions,
			bargaini	ng etc.								
İ			Ì									

Teaching - Learning Strategies	Contact Hours
Lecture	45
Practical	0
Seminar/Journal Club	0
Small group discussion (SGD)	0
Self-directed learning (SDL) / Tutorial	10
Problem Based Learning (PBL)	0
Case/Project Based Learning (CBL)	0
Revision	5
Others If any: (Visits to industries)	0
Total Number of Contact Hours	60

- 1. Gass, S.I. (2011). Linear Programming: Methods and Applications. Dover Publications, New York. 544p.
- 2. Mandal, N. & Pal, B. (2021). Linear programming and Game Theory. Techno World, Kolkata. 428p.
- 3. Mukherjee, A. & Bej, N.K. (2013). Advanced Linear Programming and Game Theory. Books & Allied Limited, New Delhi. 688p.
- 4. Shenoy, G.V. (1998). Linear Programming: Methods and Applications. New Age International Private Limited. 236p.
- 5. Sultan, A. (2011). Linear Programming: An Introduction with Applications. CreateSpace Independent Publishing Platform, New York. 660p.

					Social Scien					
Name of th		m	BA (Hons with Research) Liberal Arts							
Course Co			0210141070							
Course Tit	tle		Intermediate Macro Economics: Foundations of Aggregate Income							
~			Determina	tion						
Semester	20 11		IV							
Number of			4 (3+1+0)							
Course Pre					nowledge of					
Course Syr	nopsis			heory sees	full employn					
			demand		and	stick	,	wages.		
					on current, re by profits, ou					
				is driven c	by proffts, of	uput change	s, and mark	let value of		
			capital.	veles show	repeated bo	noms and re	ecessions ex	nlained by		
					estment respo		ecssions ex	apidiffed by		
Course Ou	utcomes:		demand sin	ocks and my	estillent respo	311505.				
CO1		ts will be able t	to compare (Classical and	l Kevnesian 1	theories of i	ncome and e	employment		
		ination. They w								
		ects of the Grea				J				
CO2		ts will understar			law of consu	mption and t	he income-c	onsumption		
		nship. They wi								
	Permai	nent Income, and	d Life Cycle	Hypotheses.	_					
CO3		ents will examine Keynesian, Profit, and Accelerator theories of investment and								
			will also un	will also understand Tobin's q theory and its implications for investment						
	decisio									
CO4		ts will explo								
		vill analyze New	Keynesian i	theory, Samu	ielson's multi	iplier-accelei	ator model,	and Hicks's		
3.7		ycle theory.	(60)	4 D	0.4	(DO) (. D	C • C		
		urse Outcom	es (COs)	to Progra	m Outcom	ies (POs)d	z Progran	a Specific		
Outcome		DO2	DO3	DO 4	DCO1	DC C2	DCO2	DCO.4		
COs	PO1		PO3	PO4	PSO1	PSO2	PSO3	PSO4		
CO1	2	3	2	2	3	3	1	2		
CO2	2	3	3	3	3	2	2	3		
CO3	3	2	2	3	1	2	1	2		
CO4	1	2	3	2	2	1	2	2		
Average	2	2.5	2.5	2.5	2.25	2	1.5	2.25		
L(Hours/	Week)	T (Hours/We	ek)	P (Hour	s/Week)	Tota	l Hour/We	ek		
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Unit	ts	Content & C								
1		Keynesian vs								
(Lec.	11)	employment of			analysis of	f the labou	r market,	causes and		
		consequences				1 . 10				
2	10)	Theories of Co	_	onsumption Function: Keynes' Psychological Consumption; Consumption						
(Lec.	12)	D 1 T	me-Consumption Relationship – Absolute Income, Relative Income,							
	,					osolute Inco	me, Relativ	_		
2		Permanent Inc	ome and Life	Cycle Hypo	otheses.			ve Income,		
3 (Lee		Permanent Inc	ome and Life Investment:	Cycle Hypo Keynesian	otheses. Theory of	Investment	Decisions,	Profits and		
(Lec.		Permanent Inco Theories of I Accelerator Th	ome and Life Investment: eories of Inv	Cycle Hypo Keynesian restment; La	otheses. Theory of gs in Investm	Investment ent, Tobin's	Decisions, q Theory of	Profits and Investment.		
(Lec.)	10)	Theories of Accelerator The Business Cyc	ome and Life Investment: eories of Inv les: Historic	E Cycle Hypo Keynesian restment; Lag real perspecti	otheses. Theory of gs in Investme, Phases of	Investment ent, Tobin's of Business	Decisions, q Theory of cycle, New	Profits and Investment. Keynesian		
_	10)	Permanent Inco Theories of I Accelerator Th	ome and Life Investment: eories of Inv les: Historic	E Cycle Hypo Keynesian restment; Lag real perspecti	otheses. Theory of gs in Investme, Phases of	Investment ent, Tobin's of Business	Decisions, q Theory of cycle, New	Profits and Investment. Keynesian		

Teaching - Learning Strategies	Contact Hours	
Lecture	45	
Practical	0	
Seminar/Journal Club	0	
Small group discussion (SGD)	0	
Self-directed learning (SDL) / Tutorial	10	
Problem Based Learning (PBL)	0	
Case/Project Based Learning (CBL)	0	
Revision	5	
Others If any: (Visits to industries)	0	
Total Number of Contact Hours	60	•
1		

- 1. Andrew A., Ben B., & Croushore, D. (2011). *Macroeconomics* (7th ed.). Pearson.
- Richard, T.F. (2013). Macroeconomics: Theories and Policies (10thed.). Pearson.
 Blanchard, O. (2006). Macroeconomics (6th ed.). Pearson.
 Blanchard, O. (2017). Macroeconomics (7th ed.). Pearson.

- Dornbusch, R., Fischer, S., & Startz, R. *Macroeconomics* (11th ed.). McGraw-Hill.

		A	kal College	of Arts and	Social Scien	ce			
Name of th	e Program	BA	BA (Hons with Research) Liberal Arts						
Course Co		0210	0210141081						
Course Tit	tle	Basi	c Econometi	rics					
Semester		IV	IV						
Number of		4 (3-	+0+1)						
Course Pre			ents should h						
Course Syn	nopsis		nometrics app				, ,	•	
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Course Ou	itcomes: At		ne course stud						
CO1	Understan	d scope and g	goals of econd	ometrics and	its relationsh	ip with econ-	omic theory a	and models.	
	They will	learn the nat	ture of the eco	onometric ap	proach and				
			vith a focus o						
CO2			ls of simple a						
	They will R ² .	apply hypot	hesis testing,	construct co	onfidence int	ervals, and e	evaluate mod	lel fit using	
CO3		d various fu	nctional form	s of regressi	on and metho	de for ectim	ating non lir	near models	
CO3			as function.						
			ate the statisti					s, compare	
CO4	Students	will exami	ine the vic	olations of	classical r	egression a	issumptions,	including	
	autocorrelation, heteroscedasticity, and multicollinearity, along with their consequences are remedies.								
					•		•		
	They will		e use of lagg		•		•		
	They will dependent	variables.		ed and dumr	ny variables	and explore	models with	qualitative	
Mapping Outcomes	They will dependent of Cours	variables.	e use of lagg	ed and dumr	ny variables	and explore	models with	qualitative	
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Outcomes COs	They will dependent of Course: PO1	variables. se Outcom PO2	res (COs)	ed and dumi	my variables m Outcom PSO1	and explore es (POs)& PSO2	models with	qualitative Specific PSO4	
Outcomes COs CO1	They will dependent of Cours PO1 3	variables. se Outcom PO2 3	PO3	to Progra	my variables m Outcom PSO1 1	and explore res (POs)& PSO2	models with	s qualitative Specific PSO4 1	
Outcomes COs CO1 CO2	They will dependent of Courses: PO1 3 3	variables. se Outcom PO2 3 2	PO3 1 2	ed and dumi	my variables m Outcom PSO1 1 0	and explore es (POs)& PSO2 1 2	models with Program PSO3 2 1	PSO4 1 2	
Outcomes COs CO1	They will dependent of Cours PO1 3	variables. se Outcom PO2 3	PO3	to Progra	my variables m Outcom PSO1 1	and explore res (POs)& PSO2	PSO3	s qualitative Specific PSO4 1	
Outcomes COs CO1 CO2 CO3 CO4	They will dependent of Cours FO1 3 3 2	variables. Se Outcom PO2 3 2 2	PO3 1 2 3	ed and dumr to Progra PO4 2 2 1	my variables m Outcom PSO1 1 0 2	and explore es (POs)& PSO2 1 2 2	PSO3 2 1 0	PSO4 1 2 0	
Outcomes COs CO1 CO2 CO3	They will dependent of Cours s: PO1 3 3 2 3 2.75	PO2 3 2 2 2 2.25	PO3 1 2 3 2	PO4 2 2 1 2 1.75	my variables m Outcom PSO1 1 0 2 2	and explore PSO2 1 2 2 0 1.25	Program PSO3 2 1 0 0	PSO4 1 2 0 2 1.25	
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Outcomes COs CO1 CO2 CO3 CO4 Average L (Hours 3 Unit 1 (Lec.10)	They will dependent of Cours s: PO1 3 2 3 2.75 s/Week) Introduct theory, rapproach/ranalysis. Simple Fregression	PO2 3 2 2 2.25 T (House ion: Definite mathematical methodology regression a model. Base	PO3 1 2 3 2 2 urs/Week) 0 ion, scope a economics Theoretica Analysis: Stic two variab	PO4 2 2 1.75 P(I) Content & Cond goals of models and apple ochastic an alle regression	PSO1 1 0 2 1.25 Hours/Week 2 Competencie econometric and economited economited n - assumpton	and explore PSO2 1 2 0 1.25 ses. Relations metrics, nametrics, of example of the control o	PSO3 PSO3 2 1 0 0.75 Total Hour/ 5 Ship between ture of exception and in the single content in the sing	PSO4 1 2 0 2 1.25 Week n economic conometrics s-regression mple linear terpretation	
Outcomes COs CO1 CO2 CO3 CO4 Average L (Hours 1 (Lec.10)	They will dependent of Cours s: PO1 3 2 3 2.75 s/Week) Introduct theory, r approach/r analysis. Simple F regression approach represent approach response to the second regression approach response to the second regression approach regression r	PO2 3 2 2 2.25 T (Horizontal Matter and the matical methodology Regression and to estimation	PO3 1 2 3 2 2 urs/Week) 0 ion, scope at economics of Theoretical	PO4 2 2 1.75 P(I) Content & Condess of and apple ochastic and their propert	PSO1 1 0 2 2 1.25 Hours/Week 2 Competencie econometric and economic econom	and explore PSO2 1 2 0 1.25 Ses. Relations metrics, na etrics. of exactic relations estimate intervals	PSO3 PSO3 2 1 0 0.75 Total Hour/ 5 Ship between ture of exception and in and hypotherm and in and hypotherm.	PSO4 1 2 0 2 1.25 Week n economic conometrics s-regression mple linear terpretation esis testing.	
Outcomes COs CO1 CO2 CO3 CO4 Average L (Hours 1 (Lec.10)	They will dependent of Cours s: PO1 3 3 2 3 2.75 s/Week) s Introduct theory, r approach/r analysis. Simple Fregression approach Goodness	PO2 3 2 2 2.25 T (Horitanthematical methodology Regression and model. Basito estimation of fit (r²) –	PO3 1 2 3 2 2 urs/Week) 0 ion, scope a economics Theoretica Analysis: Stic two variab	PO4 2 2 1.75 P(I) Content & Condess of and apple ochastic and their propert	PSO1 1 0 2 2 1.25 Hours/Week 2 Competencie econometric and economic econom	and explore PSO2 1 2 0 1.25 Ses. Relations metrics, na etrics. of exactic relations estimate intervals	PSO3 PSO3 2 1 0 0.75 Total Hour/ 5 Ship between ture of exception and in and hypotherm and in and hypotherm.	PSO4 1 2 0 2 1.25 Week n economic conometrics s-regression mple linear terpretation esis testing.	
Outcomes COs CO1 CO2 CO3 CO4 Average L (Hour 1 (Lec.10)	They will dependent of Cours s: PO1 3 3 2.75 s/Week) Introduct theory, r approach/a analysis. Simple F regression approach Goodness interpretat	PO2 3 2 2 2.25 T (Horizont Mathematical methodology Regression model. Bas to estimation of fit (r²) — ion.	PO3 1 2 3 2 2 urs/Week) 0 ion, scope a economics to Theoretica Analysis: Stic two variable extensions to the extension to	PO4 2 2 1.75 P (I Content & C nd goals of models and apple ochastic an le regression their propert to multi-vari	PSO1 1 0 2 2 1.25 Hours/Week 2 Competencie econometric and economided econometric and economided e	and explore les (POs)& PSO2 1 2 0 1.25) ses. Relations metrics, na etrics, of exactic relations estimate ince intervals multiple regions.	PSO3 2 1 0 0.75 Total Houry 5 Ship between ture of eccenometrics trion and in and hypothe gression estimates	PSO4 1 2 0 2 1.25 Week n economic conometrics s-regression mple linear terpretation esis testing, mation and	
Outcomes COs CO1 CO2 CO3 CO4 Average L (Hours 1 (Lec.10)	They will dependent of Cours s: PO1 3 2 3 2.75 s/Week) Introduct theory, rapproach/ranalysis. Simple Fregression approach Goodness interpretat Functiona	PO2 3 2 2 2.25 T (House methodology methodology model. Basito estimation of fit (r²) — ion. al forms of r	PO3 1 2 3 2 urs/Week) 0 ion, scope at economics the economics of the extensions the extensions the egression more than the extensions the extension that the extension t	PO4 2 2 1.75 P(I) Content & Cond goals of models and applementation multi-variable codels and escape and escap	PSO1 1 0 2 2 1.25 Hours/Week 2 Competencie econometric and economic econom	and explore les (POs)& PSO2 1 2 0 1.25) ses. Relations metrics, nametrics, of exactions estimate intervals multiple regularitional form	PSO3 PSO3 2 1 0 0.75 Total Hour/ 5 Ship between ture of exception and in and hypother gression estimates of regression	PSO4 1 2 0 2 1.25 Week n economic conometrics s-regression mple linear terpretation esis testing, mation and sion, choice	
Outcomes COs CO1 CO2 CO3 CO4 Average L (Hour 1 (Lec.10)	They will dependent of Cours s: PO1 3 2 3 2.75 s/Week) Introduct theory, rapproach/analysis. Simple Fregression approach Goodness interpretat Function of function of function	PO2 3 2 2 2.25 T (Horizontal Americal methodology Regression amodel. Basito estimation of fit (r²) — ion. al forms of real forms. Es	PO3 1 2 3 2 2 urs/Week) 0 ion, scope at economics to two variable extensions to egression metimation of notice and the extension of notice an	PO4 2 2 1.75 P(I) Content & Cond goals of models and apple to multi-variation of their properts of multi-variation multi-variation.	PSO1 1 0 2 2 1.25 Hours/Week 2 Competencie econometric and economied economied economied economied economied economies. Confideriable models.	and explore PSO2 1 2 0 1.25 1 ses. Relations metrics, na metrics, of exactic relations estimate intervals multiple regularity. Alternatively, alternat	PSO3 2 1 0 0 0.75 Total Hour/ 5 whip between ture of experimental in and hypother gression estimates of regressive methods of the control of the contr	PSO4 1 2 0 2 1.25 Week n economic conometrics s-regression mple linear terpretation esis testing, mation and sion, choice f estimation	
Outcomes COs CO1 CO2 CO3 CO4 Average L (Hours 1 (Lec.10)	They will dependent of Cours s: PO1 3 3 2 3 2.75 s/Week) Introduct theory, r approach/r analysis. Simple Fregression approach Goodness interpretat Function of Cobb E	PO2 3 2 2 2.25 T (Horizont Markematical methodology Regression and forms of fit (r²) — ion. In forms of real forms. Espouglas Productions	PO3 1 2 3 2 urs/Week) 0 ion, scope at economics the economics of the extensions the extensions the egression more than the extensions the extension that the extension t	PO4 2 2 1.75 P (I d) Content & C nd goals of models and apple ochastic an ele regression their propert to multi-variation. Multiple	PSO1 1 0 2 2 1.25 Hours/Week 2 Competencie econometric and economic econom	and explore PSO2 1 2 0 1.25) ses. Relations metrics, na etrics, of a stic relation cions estimate intervals multiple regularity elation between the stimulation of	PSO3 2 1 0 0 0.75 Total Hour/ 5 whip between ture of experimental in and hypother gression estimates of regressive methods of the control of the contr	PSO4 1 2 0 2 1.25 Week n economic conometrics s-regression mple linear terpretation esis testing, mation and sion, choice f estimation	

4	Breaking down of Classical	Assumptions: Violation of assumptions – autocorrelation,
(Lec.12)		es and remedies. Multicollinearity, specification bias. Lagged
	variables. Estimation with dum	my or binary variables; nature and uses of dummy variables.
	Introduction of models with qual	litative dependent variables.
Unit		Practical
1.	Estimation of a simple linear regres	ssion model using OLS and interpretation of results including R2,
	t-tests, and confidence intervals.	
2.	Estimation and comparison of linea	ar and log-linear (Cobb-Douglas) regression models using input-
	output data.	
3.		multicollinearity in a multiple regression model and application
	of remedies.	
4.	Application of regression models w	with dummy variables to analyze the effect of categorical factors.
Teaching	g - Learning Strategies Contact Ho	ours
Lecture		45
Practical		30
Seminar/	Journal Club	0
Small gro	oup discussion (SGD)	0
Self-dire	cted learning (SDL) / Tutorial	0
Problem	Based Learning (PBL)	0
Case/Pro	ject Based Learning (CBL)	0
Revision		0
Others If	any: (Visits to industries)	0
Total Nu	mber of Contact Hours	75

- 1. Dougherty, C. (2007). Introduction to Econometrics, New Delhi, Oxford University Press.
- 2. Green, W. (2007). Econometric Analysis, New Delhi, Pearson Education.
- 3. Gujarati D.N. (2008). Basic Econometrics (5th ed.), New Delhi, Tata- McGraw Hills Co.
- 4. Johnston, J. & John, D.D. (1997). Econometric Methods (4th Ed.), Singapore, McGraw Hills Co.
- 5. Maddala, G.S. (2002). Econometrics, New York, John Wiley.

BA (Hons with Research) Liberal Arts

9. SEMESTER-WISE COURSE STRUCTURE: ECONOMICS AS MINOR SUBJECT

SEMESTER - I

Course	Course	Course Tide	Credit Di	Credit Distribution (Hours/Week)					
Code	Category	Course Title	L	T	P	C			
	DSC-A1		3	1	0	4			
	DSC-A2		3	1	0	4			
0210111010	DSC-B1	Principles of Microeconomics	3	1	0	4			
	GE- 1	Language 1.1	3	1	0	4			
	SEC-1	Any from pool				2			
	AEC-1	Any from pool				2			
	VAC-1	Any from pool				2			
		Total				22			

Note – L: Lecture Hour/week, T: Tutorial Hour/week, P: Practical Hour/week, C: Credits

SEMESTER - II

Course	Course	Course Title	Credit D	Credit Distribution (Hours/Week)					
Code	Category	Course Title	L	T	P	C			
	DSC-A3		3	1	0	4			
	DSC-A4		3	0	1	4			
0210121030	DSC-B2	Introductory Macroeconomics	3	1	0	4			
	GE- 2	Any from pool	3	1	0	4			
	SEC-2	Any from pool				2			
	AEC-2	Any from pool				2			
	VAC-2	Any from pool				2			
		Total				22			

Note – L: Lecture Hour/week, T: Tutorial Hour/week, P: Practical Hour/week, C: Credits

SEMESTER - III

Course	Course	Correct Title	Credit Distribution (Hours/Week)					
Code	Category	Course Title	L	T	P	C		
	DSC-A5		3	1	0	4		
	DSC-A6		3	1	0	4		
0210131050	DSC-B3	Intermediate Microeconomics I: Behavioral Foundations of Market Interactions	3	1	0	4		
	GE –3	Any from pool	3	1	0	4		
0210137011	IACP					2		
	SEC-3	Any from pool				2		
	AEC-3	Any from pool				2		
	VAC- 3	Any from pool				2		
		Total				22		

Note – L: Lecture Hour/week, T: Tutorial Hour/week, P: Practical Hour/week, C: Credits

SEMESTER – IV

Course	Course	Course Tide	Credit D	istributio	n (Hours/	Week)
Code	Category	Course Title	L	T	P	C
	DSC-A7		3	1	0	4
	DSC-A8		3	0	1	4
0210141070	DSC-B4	Intermediate Macroeconomics: Foundations of Aggregate Income Determination	3	1	0	4
	GE – 4		3	1	0	4
0210137021	IACP					2
	SEC-4	Any from pool				
	AEC-4	Any from pool				2
	VAC-4	Any from pool				2
		Total				22

Note – L: Lecture Hour/week, T: Tutorial Hour/week, P: Practical Hour/week, C: Credits

SEMESTER - V

Course	Course	Course Title	Credit D	istributio	n (Hours	Week)
Code	Category	Course Title	L	T	P	С
	DSC-A9		3	1	0	4
	DSC-A10		3	1	0	4
0210151090	DSC-B5	Intermediate Microeconomics II: Market,	3	1	0	4
		Government and Welfare				
0210152010	DSE-1	Indian Monetary System				
0210152020	Choose any	Money and Financial Markets	3	1	0	4
	one					
	GE-5	Any from pool	3	1	0	4
0210137031	IACP					2
	SEC-5	Any from pool				2
_		Total				22

Note – L: Lecture Hour/week, T: Tutorial Hour/week, P: Practical Hour/week, C: Credits

SEMESTER - VI

Course	Course	C T'41-	Credit D	Credit Distribution (Hours/Week)					
Code	Category	Course Title	L	T	P	C			
	DSC-A11		3	1	0	4			
	DSC-A12		3	1	0	4			
0210161120	DSC-B6	International Trade	3	1	0	4			
0210162030	DSE-2	Health Economics							
0210162040	Choose any	Gender Economics	3	1	0	4			
	one								
	GE- 6	Any from pool	3	1	0	4			
0210137041	IACP					2			
	SEC-6	Any from pool							
		Total				22			

Note – L: Lecture Hour/week, T: Tutorial Hour/week, P: Practical Hour/week, C: Credi

SEMESTER - VII

Course	Course	Course Title	Credit D	istributio	1 (Hours/	Week)
Code	Category	Course Tide	L	T	P	C
	DSC-A13		3	1	0	4
0210171130	DSE 3	Economic Development of North-	3	0	1	4
	Choose any	western Himalayas	3	U	1	4
0210172060	one	Political Economy	3	1	0	
0210172070	DSE 4	History of Economic				
	Choose any	Thought				
0210172080	one	Comparative Economic Development:	3	1	0	4
		India, Japan & South Korea				
	GE- 7	Any from pool				
0210172090	DSE 5	Labour Economics				
0210172100	Choose any	Agricultural Economics	3	1	0	1
	one	-		1	U	7
	GE-8					
0210178011		Dissertation on Major/Minor /				6
		Academic Project/Entrepreneurship				
		Total				22

Note – L: Lecture Hour/week, T: Tutorial Hour/week, P: Practical Hour/week, C: Credits

SEMESTER - VIII

Course	Course	Course Title	Credit D	istributio	n (Hours/	Week)
Code	Category	Course Title	L	T	P	C
	DSC-14		3	1	0	4
0210182110	DSE 6	Public Economics				
0210181140	Choose any	Growth and Development Perspectives	3	1	0	4
	one	of Indian Economy				
0210182120	DSE 7	Corporate Finance and Governance	3	1	0	
0210182140	Choose any	Environmental Issues				
	one	& Sustainable Development	3	0	1	4
	GE- 9	Any from pool				
0210182150	DSE 08	Education Economics				
0210182160	Choose any	Open Economy	3	1	0	4
	one	Macroeconomics	3	1	U	4
	GE-10					
0210178021		Dissertation on Major/Minor /				6
		Academic Project/Entrepreneurship				Ů
		Total				22

Note – L: Lecture Hour/week, T: Tutorial Hour/week, P: Practical Hour/week, C: Credits

Multidisciplinary Generic Electives (MGE)

Multidisciplinary Generic Electives is credited and choice-based. The students make a choice from pool of MGE offered by the Faculty under the University. (Reference: University Umbrella Multidisciplinary Generic Electives)

Value Added Courses (VAC) Value Added Courses is credited and choice-based. The students make a choice from pool of VAC offered by the Faculty under the University. (Reference: University Umbrella Value Added Courses)

Ability Enhancement Compulsory Course (AEC) Ability Enhancement Compulsory Courses is credited and choice-based. The students make a choice from pool of AEC offered by the Faculty under the University. (Reference: University Umbrella Ability Enhancement Compulsory Course)

Skill Enhancement Courses (SEC) Ability Enhancement Compulsory Courses is credited and choicebased. The students make a choice from pool of AEC offered by the Faculty under the University.

10. SEMESTER-WISE COURSE DETAILS: ECONOMICS AS MINOR SUBJECT

SEMESTER - I

			Akal Co	ollege of A	rts & Social	Science			
Name of									
Name of									
Course C		0210111010							
Course T	itle	Principles of Microeconomics							
Semester		Ι							
Number of									
	e Prerequisite Learners are expected to have a curiosity or interest for economics.								
Course S	Course Synopsis Fundamental Economics is designed to provide students' basic knot the concepts of scarcity, opportunity cost, marginal decision making offs demand, pricing, cost, production, and markets. The condemonstrates how all these concepts help the students to make the rational decisions.						ng, trade -		
Course C	Outcomes	•							
CO1	microec affect m		ey will also	learn abo	out demand	and suppl	y analysis	and how el	asticity's
CO2	type of o	will be able commodities v	will develop	the analy	tically thinki	ing of the s	tudents		
CO3	choose	s will be able the least cost onomics.	combinati	on to prod	duce. They	will also l	earn applic	ations in	
CO4	welfare	dents will be outcomes.							
Mapping M=medi	•	se Outcomes	(COs) to P	rogram O	utcomes (P	Os) S=stro	ng, W=wea	ık,	
COs	PO1	PO2	PO3	PO4	PO5	PSO1	PSO2	PSO3	PSO4
CO1	3	2	1	1	3	3	3	3	3
CO2	3	3	1	2	2	3	3	1	3
CO3	3	3	1	2	3	3	3	2	3
CO4	3	2	2	3	3	3	3	2	3
Avg	3	2.5	1.25	2	2.75	3	3	2	3
Course C	Content:								
L (Hrs./V	Veek)		T Week)	(P Hrs./Week)			otal Week)	
Un			1	Co	ontent & Co	 mpetencie	S	4	
1 Lec. ((10) r s s		lysis, probl Demand a minants of o of demand	matter of em of scar nd Supply demand an l, degrees of	Economics city and cho - Law of c d supply, shof price elast	s: Themes ice, opported and and ifts in demand ticity.	of microe unity cost, r d Supply, I and and su	narket force ndividual d pply curves.	es of supply emand and Elasticity:
	price elasticity of demand, degrees of price elasticity. 2								

3	Production and Costs: Production Function: production decision of firm, technology of
Lec. (13)	production, short-run vs long- run; Production with one variable input, total, average and marginal product, three stages of production. Cost of production: traditional and modern cost concepts, short run and long run costs.
4	Perfect Competition: Perfectly competitive markets: marginal revenue, marginal cost and
Lec. (11)	profit maximization of the firm, equilibrium of the firm in the short run and long run; industry's long run supply curve.

Teaching - Learning Strategies	Contact Hours
Lecture	45
Practical	-
Seminar/Journal Club	1
Small group discussion (SGD)	1
Self-directed learning (SDL) / Tutorial	4
Problem Based Learning (PBL)	-
Case/Project Based Learning (CBL)	1
Revision	7
Others If any:	1
Total Number of Contact Hours	60

- Suggesting Readings:
 1. Bernheim, B., & Winston, M. (2009). Microeconomics. Tata McGraw-Hill.
 2. Frank, R. H., & Cartwright, E. (2010). Microeconomics and behavior. McGraw-Hill.
 3. Mankiw, N. G. (2018). Principles of Microeconomics (8th ed.)

SEMESTER II

			Akal Co		Arts & S	ocial Science	2		
Name of the	Department	E	conomics						
Name of the									
Course Code	2	02	21012103	0					
Course Title	;	Introductory Macroeconomics							
Semester		II							
Number of C	redits	4	4 (3+1+0)						
Course Prere	quisite								
Course Syno	psis	th	e behavio	or of agg	regate ed		iables such		focusing on aflation, and
		ac st	counting abilizing	, moneta	ry and omy.	fiscal policy		role of go	vernment in
Course Outc									
	income aggr	egates, co	onsumer a	and produ	ıcer price	index		omics, nation	
	Keynesian n	nodels of	income, o	output an	d employ	ment determ	ination	ne classical a	
	The student determination						r and sup	ply of mor	ney
	They will le general equi					d properties	of IS and	LM curves a	nd
Mapping of	Course Out	comes (C	COs) to P	rogram	Outcome	es (POs) S=s	trong, W=	weak, M=m	edium
COs	PO1	PO2	PO3	PO4	PO5	PSO1	PSO2	PSO3	PSO4
CO1	3	3	2	2	2	3	2	3	2
CO2	3	3	3	3	2	3	3	3	2
CO3	2	3	3	2	2	1	2	2	3
CO4	2	3	3	3	3	2	2	3	2
Avg	2.5	3	2.75	2.5	2.25	2.25	2.25	2.75	2.25
Course Conto	ent:								
L (Hrs./Week	(E	T Irs./Weel	k)	(I	P Hrs./Wee	ek)		Total (Hrs./Week)	1
3		1			0			4	
Unit				Con	tent & C	Competencie	S		
1 Lec. (11)	Introduction to Macro Economic Issues and National Income Accounting: Introduction to macroeconomics, microeconomic foundation of macroeconomics. Measurements of macroeconomic variables- national income and its aggregates, GDP deflator, real versus nominal product, components of GDP, circular flow of income in closed and open economy.								
2 Lec. (10)	supply cu	minal product, components of GDP, circular flow of income in closed and open economy. ggregate Demand and Aggregate Supply: Derivation of Aggregate demand, Aggregate pply curve, full employment, classical theory of income, output and employment termination, Keynesian model of effective demand, multiplier and its working.							

3	Demand and Supply of Money: Consumption							
Lec. (14)	function and its determinants, saving and investment, interest rate and its determinants. Functions							
	of money; quantity theory of money; demand for money; supply for money: definition and it							
	importance in macroeconomics, determination of money supply and demand; credit creation.							
4	Macroeconomic Policy and IS-LM Analysis: Fisc	al and Monetary policy: objectives, tools and						
Lec. (10)	conflicts. Derivations, properties and shift in the	IS and LM curves; fiscal an monetary tools						
	of monetary policy multipliers							
Teaching - Le	arning Strategies	Contact Hours						
Lecture		45						
Practical		-						
Seminar/Journ	al Club	1						
Small group di	iscussion (SGD)	1						
Self-directed le	earning (SDL) / Tutorial	4						
Problem Based	Learning (PBL)	-						
Case/Project B	Based Learning (CBL)	1						
Revision		7						
Others If any:		1						
Total Number	of Contact Hours	60						

- 1. Andrew A., Ben B., & Croushore, D. (2011). *Macroeconomics* (7th ed.). Pearson.
- Blanchard, O. (2006). *Macroeconomics* (6th ed.). Pearson
 Blanchard, O. (2017). *Macroeconomics* (7th ed.). Pearson
- 4. Dornbusch, R., Fischer, S., & Startz, R. (2014). *Macroeconomics* (11th ed.). McGraw-Hill.
- Richard, T.F. (2013). Macroeconomics: Theories and Policies (10th ed.). Pearson.

SEMESTER-III

		Akal	College o	f Arts and S	Social Scien	Ce			
Name of the Depar	tment		Economic		ociui ocicii	<u> </u>			
Name of the Progra				BA (Hons with Research) Liberal Arts					
Course Code			02101310			1110			
Course Title			Intermediate Microeconomics-I: Behavioural Foundations of						
				nteractions		2011011			
Semester			III						
Number of Credits			4 (3+1+0)						
Course Prerequisite	;		Learners a	re expected	to have curi	osity or inte	erest for econ	nomics.	
Course Synopsis								nsumer and	
			producer	behaviour,	market struc	tures, and	factor pricin	g. It covers	
								n-making in	
								lso explores	
							oution, and	real-world	
	~ -			ns of microe	economic mo	dels.			
Course Outcomes				1.1				.***	
CO1								nces, utility	
				traints, and et responses		na substitu	tion effects	to explain	
CO2						roduction a	nd cost decis	sions in both	
CO2		rt run and th			ic optimal p	ioduction a	nd cost decis	sions in both	
CO3					ıs market str	uctures suc	h as perfect o	competition,	
	monopoly, and imperfect competition, focusing on pricing, output decisions, and the impact of government regulation.								
				tion.					
CO4	impact	of governm	ent regula		actor pricing	g and dist	ribution usir	ng marginal	
CO4	impact Unders	of governm tand and	ent regula explain m	odels of fa				ng marginal titive market	
	impact Unders product condition	of government of	nent regular explain m y and analy	odels of fa se outcome	s under com	petitive and	non-compet	titive market	
Mapping of Co	impact Unders product condition	of government of	nent regular explain m y and analy	odels of fa se outcome	s under com	petitive and	non-compet	titive market	
Mapping of Co	impact Unders product condition	of government of	nent regular explain m y and analy	odels of farse outcome o Prograi	s under com	petitive and res (POs)	non-compet	n Specific	
Mapping of Co Outcomes:	Unders product condition	of government and and activity theory ons. Outcomes	explain my and analy (COs) to	odels of favore outcome o Program	s under com	petitive and	non-compet	titive market	
Mapping of Co Outcomes: COs	Unders product condition ourse Condition PO1	of government and and exivity theoryons. Dutcomes PO2 2	explain my and analy (COs) to	odels of farse outcome o Program PO4 2	n Outcom PSO1 3	petitive and res (POs). PSO2 1	& Program PSO3	n Specific PSO4	
Mapping of Co Outcomes: COs CO1 CO2	Unders product condition ourse	of governm tand and e tivity theory ons. Putcomes PO2 2 3	explain my and analy (COs) to PO3 3 2	odels of farse outcome Program PO4 2 2	Name	PSO2 1 2	& Program PSO3 1 2	n Specific	
Mapping of Co Outcomes: COs CO1 CO2 CO3	Unders product condition purse C	of government and and activity theory ons. Putcomes PO2 2 3 2	explain my and analy (COs) to PO3 3 2 2	odels of favore outcome PO4 2 2 3	PSO1 3 3 2	PSO2 1 2 2	 Program PSO3 1 2 0 	PSO4 1 2 1	
Mapping of Co Outcomes: COs CO1 CO2 CO3 CO4	Unders product condition ourse Compare Compare Compare Compared Co	of government and and exivity theory ons. Putcomes PO2 2 3 2 2	explain my and analy (COs) to PO3 3 2 1	odels of favrse outcome PO4 2 2 3 3	PSO1 3 3 2 2 3	PSO2 1 2 2 2 2	**Program **PSO3** 1 2 0 0 2	n Specific PSO4 1 2	
Mapping of Co Outcomes: COs CO1 CO2 CO3 CO4 Average	Unders product condition purse Compared and a second secon	of governm tand and e civity theory ons. Putcomes PO2 2 3 2 2 2.25	explain my and analy (COs) to PO3 3 2 1 2	PO4 2 2 3 3 2.5	PSO1 3 3 2 2 3 2.75	PSO2 1 2 2 1.75	**Program PSO3 1 2 0 2 1.25	PSO4 1 2 1 0 1	
Mapping of Co Outcomes: COs CO1 CO2 CO3 CO4 Average L(Hours/Week)	Unders product condition purse Compared and a second secon	of government and and exivity theory ons. Putcomes PO2 2 3 2 2	explain my and analy (COs) to PO3 3 2 1 2	PO4 2 2 3 3 2.5	PSO1 3 3 2 3 2.75	PSO2 1 2 2 1.75	**Program **PSO3** 1 2 0 0 2	PSO4 1 2 1 0 1	
Mapping of Co Outcomes: COs CO1 CO2 CO3 CO4 Average L(Hours/Week)	Impact Unders product condition PO1 2 3 3 3 2.75 T	of government and and activity theory ons. Putcomes PO2 2 3 2 2 2.25 (Hours/W	explain my and analy (COs) to PO3 3 2 2 1 2 (eek)	odels of favse outcome PO4 2 2 3 3 2.5 P (H	PSO1 3 3 2 2 3 2.75	PSO2 1 2 2 1.75	**Program PSO3 1 2 0 2 1.25	PSO4 1 2 1 0 1	
Mapping of Co Outcomes: COs CO1 CO2 CO3 CO4 Average L(Hours/Week)	Unders product condition purse Contest	of government and and activity theory ons. Putcomes PO2 2 3 2 2.25 (Hours/W) 1 nt & Com	resplain my and analy (COs) to PO3 3 2 2 1 2 (eek)	PO4 2 2 3 3 2.5 P (H	PSO1 3 3 2 3 2.75 ours/Week 0	PSO2 1 2 2 1.75	Non-compet Non-compet	PSO4 1 2 1 0 1 r/Week	
Mapping of Co Outcomes: COs CO1 CO2 CO3 CO4 Average L(Hours/Week) 3 Units	PO1 2 3 3 2.75 T Conter	of government and and activity theory ons. Putcomes PO2 2 3 2 2.25 (Hours/W) 1 nt & Composite of Demander	regular regular explain my and analy (COs) to PO3 3 2 2 1 2 2 2 4 2 2 4 2 2 4 2 4 2 4 4	PO4 2 2 3 3 2.5 P (H	PSO1 3 3 2 3 2.75 ours/Week 0	PSO2 1 2 2 1.75) aximization	PSO3	PSO4 1 2 1 0 1 r/Week	
Mapping of Co Outcomes: COs CO1 CO2 CO3 CO4 Average L(Hours/Week)	PO1 2 3 3 2.75 T Conter Choice Choice	of government and and activity theory ons. Putcomes PO2 2 3 2 2.25 (Hours/W) 1 nt & Composite	regular regula	PO4 2 2 3 3 2.5 P (H	PSO1 3 3 2 3 2.75 ours/Week 0 aty, Utility Met, Derivation	PSO2 1 2 2 1.75) aximization of Elasti	PSO3 PSO3 1 2 0 2 1.25 Total Hou a and Choice, cities in the	PSO4 1 2 1 0 1 r/Week Budget and Context of	
Mapping of Co Outcomes: COs CO1 CO2 CO3 CO4 Average L(Hours/Week) 3 Units	PO1 2 3 3 2.75 Conter Choice Necessi	of government and and activity theory ons. Putcomes PO2 2 3 2 2.25 (Hours/W 1 nt & Com of Demand Income a aity, Inferior	regular regular explain my and analy (COs) to PO3 3 2 2 1 2 reek) petencies of Preferency and Substite and Superior Position of Position (Position Position Po	PO4 PO4 2 2 3 3. 2.5 P (H	PSO1 3 3 2 3 2.75 ours/Week 0 ity, Utility Met, Derivations, Effects of	PSO2 1 2 2 1.75) aximization of Elasti	PSO3 PSO3 1 2 0 2 1.25 Total Hou a and Choice, cities in the	PSO4 1 2 1 0 1 r/Week	
Mapping of Co Outcomes: COs CO1 CO2 CO3 CO4 Average L(Hours/Week) 3 Units 1 (Lec.10)	PO1 2 3 3 2.75 Conter Choice Necessic controls	pof government and and a civity theory ons. Putcomes PO2 2 3 2 2.25 (Hours/W) Int & Composite of Demander, Income a city, Inferiors. Consume	result regular explain my and analy (COs) to PO3 3 2 2 1 2 (eek) Petencies of Preferency and Substite and Super surplus sur	PO4 PO4 2 2 3 3 2.5 P (H ace and Utilitation Effection Goods and demand,	PSO1 3 3 2 3 2.75 ours/Week 0 atty, Utility Met, Derivations, Effects of Network Ex	PSO2 1 2 2 1.75) aximization of Elastic government ternalities.	PSO3 1 2 0 2 1.25 Total Hou 4 and Choice, cities in the intervention	PSO4 1 2 1 0 1 r/Week Budget and Context of ons to price	
Mapping of Co Outcomes: COs CO1 CO2 CO3 CO4 Average L(Hours/Week) 3 Units 1 (Lec.10)	PO1 2 3 3 2.75 T Conter Choice Choice Necessic	PO2 2 3 2 2.25 (Hours/W 1 nt & Com of Demand, Income a ity, Inferior s. Consume eer Behavio	result regular explain my and analy (COs) to PO3 3 2 2 1 2 2 2 4: Peek) petencies of Preferent Substite and Substite and Super surplus a pour and Course and Course and Course and Course explain the course and Course and Course explain the course and Course explain the course and Course explain the course ex	PO4 2 2 3 3 2.5 P (H	PSO1 3 3 2 2 3 2.75 ours/Week 0 aty, Utility Met, Derivations, Effects of Network Exginal Produc	PSO2 1 2 2 1.75) aximization of Elasti government ternalities. tivity, Iso-o	PSO3 PSO3 1 2 0 2 1.25 Total Hounard Choice, cities in the intervention of the	PSO4 1 2 1 0 1 r/Week Budget and Context of ons to price and Rate of	
Mapping of Co Outcomes: COs CO1 CO2 CO3 CO4 Average L(Hours/Week) 3 Units 1 (Lec.10)	PO1 2 3 3 2.75 T Conter Choice Necess: controls	PO2 2 3 2 2.25 (Hours/W 1 nt & Com of Demand , Income a ity, Inferior s. Consume er Behavior	PO3 3 2 2 1 2 (eek) petencies d: Preferen nd Substite and Supe er surplus a our and C tion, Cobb	PO4 2 2 3 3 2.5 P (H ace and Utiliatution Effecterior Goods and demand, Costs: Marg	PSO1 3 3 2 3 2.75 ours/Week 0 aty, Utility Met, Derivations, Effects of Network Exeginal Production are productions.	PSO2 1 2 2 1.75) aximization of Elasti governmenternalities. tivity, Iso-cion function	PSO3 PSO3 1 2 0 2 1.25 Total Hour 4 and Choice, cities in the nt intervention in the property of the p	PSO4 1 2 1 0 1 r/Week Budget and Context of ons to price and Rate of Substitution,	
Mapping of Co Outcomes: COs CO1 CO2 CO3 CO4 Average L(Hours/Week) 3 Units 1 (Lec.10)	PO1 2 3 3 2.75 Conter Choice Necessic controls Product	pof government and and activity theory ons. Putcomes PO2 2 3 2 2.25 (Hours/W 1 nt & Com of Demand Income a activ, Inferior s. Consume cer Behavior and Substitut Maximisation	result regular explain my and analy (COs) to PO3 3 2 2 1 2 2 4 2 6 Petencies of Preference and Substite and Super surplus a pour and Cotton, Cobboon and Cotton and Co	PO4 PO4 2 2 3 3. 2.5 P (H ace and Utilitation Effectorior Goods and demand, Costs: Margabots Minimis	PSO1 3 3 2.75 Ours/Week 0 ity, Utility Met, Derivations, Effects of Network Exginal Product sation; Cost	PSO2 1 2 2 1.75) aximization of Elasti governmenternalities. tivity, Iso-coin Minimisati	PSO3 PSO3 1 2 0 2 1.25 Total Hou 4 and Choice, cities in the intervention intervention in put Ch	PSO4 1 2 1 0 1 r/Week Budget and Context of ons to price and Rate of Substitution, noices: Cost	
Mapping of Co Outcomes: COs CO1 CO2 CO3 CO4 Average L(Hours/Week) 3 Units 1 (Lec.10)	PO1 2 3 3 2.75 T Conter Choice Choice Necessic controls Product Technic Profit Function	pof government and and activity theory ons. Putcomes PO2 2 3 2 2.25 (Hours/W 1 nt & Com of Demand Income a activ, Inferior s. Consume cer Behavior and Substitut Maximisation	result regular explain my and analy (COs) to PO3 3 2 2 1 2 2 4 2 6 Petencies of Preference and Substite and Super surplus a pour and Cotton, Cobboon and Cotton and Co	PO4 PO4 2 2 3 3. 2.5 P (H ace and Utilitation Effectorior Goods and demand, Costs: Margabots Minimis	PSO1 3 3 2.75 Ours/Week 0 ity, Utility Met, Derivations, Effects of Network Exginal Product sation; Cost	PSO2 1 2 2 1.75) aximization of Elasti governmenternalities. tivity, Iso-coin Minimisati	PSO3 PSO3 1 2 0 2 1.25 Total Hou 4 and Choice, cities in the intervention intervention in put Ch	PSO4 1 2 1 0 1 r/Week Budget and Context of ons to price and Rate of Substitution,	
Mapping of Co Outcomes: COs CO1 CO2 CO3 CO4 Average L(Hours/Week) 3 Units 1 (Lec.10)	PO1 2 3 3 2.75 T Conter Choice Choice Necessic controls Product Technic Profit Function	pof government and and activity theory ons. Putcomes PO2 2 3 2 2.25 (Hours/W 1 nt & Composity, Inferior active, Inferior ac	PO3 3 2 2 1 2 2 eek) petencies d: Preferen nd Substite and Super r surplus a our and Co tion, Cobb on and Co un and Lo	PO4 2 2 3 3 2.5 P (H ace and Utilitation Effective Goods and demand, Costs: Marga-Douglas limest minimum on property of the cost of the co	PSO1 3 3 2 3 2.75 Ours/Week 0 aty, Utility Met, Derivation, Effects of Network Exginal Production action; Cost tinctions, Description, Descr	PSO2 1 2 2 1.75) aximization of Elasti government ternalities. tivity, Iso-cion function Minimisati ynamic characteristics.	PSO3 1 2 0 2 1.25 Total Hou 4 and Choice, cities in the ent intervention in put Changes in cost	PSO4 1 2 1 0 1 r/Week Budget and Context of ons to price and Rate of Substitution, noices: Cost ts- Learning	
Mapping of Co Outcomes: COs CO1 CO2 CO3 CO4 Average L(Hours/Week) 3 Units 1 (Lec.10)	PO1 2 3 3 2.75 T Conter Choice Necessic controls Product Curve Nature	of government and and activity theory ons. Putcomes PO2 2 3 2 2.25 (Hours/W 1 nt & Common of Demandor, Income activ, Inferior s. Consume ere Behavior call Substitut Maximisations, Short-researed Mark	PO3 3 2 2 1 2 2 1 2 2 4 2 6 2 6 2 1 2 1 2 6 6 6 1 1 2 1 2 1 2 1	PO4 2 2 3 3 2.5 P (H ace and Utiliantion Effector Goods and demand, Costs: Marga-Douglas limbs ong-run Distriction of Fire ours ours of Fire ours ours of Fire ours ours of Fire ours of Fire ours of Fire our	PSO1 3 3 2 2 3 2.75 ours/Week 0 ity, Utility Met, Derivations, Effects of Network Exginal Productions attion; Cost trinctions, Districtions, Districtions	PSO2 1 2 2 1.75) aximization of Elasti governmenternalities. tivity, Iso-cion function Minimisati ynamic characteristics.	PSO3 PSO3 1 2 0 2 1.25 Total Hour 4 and Choice, cities in the intervention in the intervention in the continuous plant. Elasticity Son input Changes in cost of the property of the pr	PSO4 1 2 1 0 1 r/Week Budget and Context of ons to price and Rate of Substitution, noices: Cost	

	Discrimination, Regulations of Monopoly; Imperfect Competition: Short-run Decisions
	and different Models.
4	Theory of Distribution and Pricing of Factors in Competitive Market: Marginal
(Lec.10)	Productivity Theory, demand for and supple of factor of production, Factor Pricing
	Perfectly Competitive Markets, Factor Pricing in Imperfectly Markets, Monopolistic
	Power in the Product and Factor Market,

Teaching - Learning Strategies	Contact Hours	
Lecture	45	
Practical	0	
Seminar/Journal Club	0	
Small group discussion (SGD)	0	
Self-directed learning (SDL) / Tutorial	10	
Problem Based Learning (PBL)	0	
Case/Project Based Learning (CBL)	0	
Revision	5	
Others If any: (Visits to industries)	0	
Total Number of Contact Hours	60	
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- 1. Boumol., William., J. & Blinder, A.S. (2005). Microeconomics; Principles and Policy, 9th Edition, Thomson, 1st Indian Edition.
- 2. Dewett, K.K., & Navalur, M.H. (2015) Modern Economic Theory; S. Chand & Company Pvt. Ltd.
- 3. Ferguson, C.E., & Gould, J.P. (1989). Micro Economic Theory (6th Edition) All India Traveller Bookseller.
- 4. Koutsoyiannis, A. (1979). Modern Micro-Economics. McMillan Press, London.
- 5. Maddala, G.S., & Millelr, E. (1989). Micro Economics: Theory and Applications. Tata McGraw-Hill
- 6. Mankiw, G.N. (1968). Principles of Economics; 3rd Edition, Thomson; 3rd Indian Reprint.
- 7. Pindyck, R.S., & Rubenfield, D. (2006). Microeconomics, Prentice Hall of India, New Delhi.
- 8. Varian, H.H. (2006). Intermediate Microeconomics: A Modern Approach, (Indian edition) East West Press N Delhi.

SEMESTER-IV

			A		eNIESTEK- of Arts and	Social Scien	ce				
Name of th	e Progra	ım				h) Liberal Ar					
Course Code				0210141070							
Course Title				Intermediate Macro Economics: Foundations of Aggregate Income							
				Determination							
Semester				IV							
	Number of Credits				4 (3+1+0)						
Course Prerequisite				Students should have knowledge of Introductory Macroeconomics							
Course Syr				Classical theory sees full employment as automatic; Keynes stressed							
• •			demand and sticky wages.								
			Consumption depends on current, relative, or expected lifetime income.								
				Investment is driven by profits, output changes, and market value of							
				capital.							
				Business cycles show repeated booms and recessions explained by							
				demand shocks and investment responses.							
Course Ou			11 11 .		31 ' 1	1.77	1		1		
CO1						l Keynesian t					
	determination. They will also examine Keynes's labour market analysis and understand the cause								d the causes		
CO2		nd effects of the Great Depression. Students will understand Keynes' psychological law of consumption and the income-consumption									
COZ						umption the					
							ories includi	ing Absoluti	z, Relative,		
CO3		Permanent Income, and Life Cycle Hypotheses. Students will examine Keynesian, Profit, and Accelerator theories of investment and the role of									
	investment lags. They will also understand Tobin's q theory and its implications for investm decisions.										
CO4	Studen	its w	ill explo	re the hi	storical pe	rspective ar	nd phases	of busine	ess cycles.		
						ielson's multi					
	trade c										
Mapping		urse	Outcom	es (COs)	to Progra	m Outcom	es (POs)&	k Progran	1 Specific		
Outcomes											
COs	PO1	l l	PO2	PO3	PO4	PSO1	PSO2	PSO3	PSO4		
CO1	2		3	2	2	3	3	1	2		
CO2	2		3	3	3	3	2	2	3		
CO3	3		2	2	3	1	2	1	2		
CO4	1		2	3	2	2	1	2	2		
Average	2		2.5	2.5	2.5	2.25	2	1.5	2.25		
L(Hours/	Week)	T (H	Hours/We	ek)	P (Hour	s/Week)	Tota	l Hour/We	ek		
3			1			0		4			
Unit	S Content & C			<u>ompetencio</u>	es						
1						assical and					
(Lec. 11) employment determination, Keynes's analysis of the labour market, caus								causes and			
				of great depre							
2	10)	Theories of Consumption Function: Keynes' Psychological Consumption; Consumption									
(Lec. 12) Puzzle; Income-Consumption Relationship –							solute Inco	me, Relativ	e Income,		
2		Permanent Income and Life Cycle Hypotheses.									
(Lea 1	10)	Theories of Investment: Keynesian Theory of Investment Decisions, Profits and Accelerator Theories of Investment: Lags in Investment Tohin's a Theory of Investment									
(Lec. 1	10)	Accelerator Theories of Investment; Lags in Investment, Tobin's q Theory of Investment. Business Cycles: Historical perspective, Phases of Business cycle, New Keynesian									
(Lec. 1	12)					ultiplier accel					
(Lcc.)		theor	-	incory, ban	.14013011 3 141	ampilei accel	crator theory	and mens	rade Cycic		

Teaching - Learning Strategies	Contact Hours	
Lecture	45	
Practical	0	
Seminar/Journal Club	0	
Small group discussion (SGD)	0	
Self-directed learning (SDL) / Tutorial	10	
Problem Based Learning (PBL)	0	
Case/Project Based Learning (CBL)	0	
Revision	5	
Others If any: (Visits to industries)	0	
Total Number of Contact Hours	60	
1		

- 1. Andrew A., Ben B., & Croushore, D. (2011). *Macroeconomics* (7th ed.). Pearson.
- 2. Blanchard, O. (2006). *Macroeconomics* (6th ed.). Pearson.
- 3. Blanchard, O. (2017). *Macroeconomics* (7th ed.). Pearson.
- 4. Dornbusch, R., Fischer, S., & Startz, R. Macroeconomics (11th ed.). McGraw-Hill.
- 5. Richard, T.F. (2013). *Macroeconomics: Theories and Policies* (10thed.). Pearson.