Syllabus of 4 + 1 Year Integrated UG and PG Programme

w. e. f 2024-25 Academic Year



GRADUATE SCHOOL Mahatma Gandhi University P. D. Hills P O Kottayam, Kerala <u>www.gs.mgu.ac.in</u> <u>www.mgu.ac.in</u>

Schools offering Majors

SL.No	School/Centre
1	School of Bio Sciences
2	School of Chemical Sciences
3	School of Computer Sciences
4	School of Environmental Sciences
5	School of Gandhian Thought and Development Studies
6	School of International Relations and Politics
7	School of Pure and Applied Physics
8	School of Social Sciences

Sl. No.	Major	Intake
	SCIENCE	
1	Bio Sciences	6**
2	Chemistry	6
3	Computer Science	6
4	Environmental Science	6
5	Physics	6
	SOCIAL SCIENCES	
1	Development Studies	5
2	Gandhian Studies	5
3	History	10
4	International Relations and Politics	10

Majors offered and Intake *1 seat shall be sanctioned over and above the intake in each major in the 3rd semester for students who opt for a change of major after two semesters.

**Progression to PG Shall be based on the specialization selected by students as Biochemistry (2 seats) Biotechnology (2 seats) and Microbiology (2 seats) based on merit.

Schools offering Minors/MDCs/AECs/VACs/SECs

SL.No	School/Centre
1	School of Artificial Intelligence And Robotics
2	School of Behavioural Sciences
3	School of Biosciences
4	School of Chemical Sciences
5	School of Computer Sciences
6	School of Data Analytics
7	School of Energy Materials
8	School of Environmental Sciences
9	School of Food Science And Technology
10	School of Gandhian Thought And Development Studies
11	School of Gender Studies
12	School of Indian Legal Thought
13	School of International Relations And Politics
14	School of Letters
15	School of Mathematics And Statistics
16	School of Nanoscience And Nano Technology
17	School of Pedagogical Sciences
18	School of Polymer Science And Technology
19	School of Pure And Applied Physics
20	School of Social Sciences
21	School of Tourism Studies
22	International and Inter University Centre for Nanoscience and Nanotechnology
23	K N Raj School of Economics

	Μ	ahatma Ga	ndhi Unive	ersity		
Course	Title	Credits Hours per Week			Level	Туре
Code			Theory	Practicals	-	
		SEMES	TER I			_
	Major	4			Foundation (100-199)	
MG1DSC UEC121	Minor A Introductory Microeconomics	4	48	12		Minor A
MG1DSC UEC141	Minor B Economic History of India	4	47	13		Minor B
MG1MDC UEC101	MDC An Introduction to the Indian economy	3	37	8		MDC
	AEC (Eng)	3			۰۵	
	AEC (Mal)	3			"	
		SEMES	FER II			
	Major	4			"	
MG2DSC UEC121	Minor A Introductory Macroeconomics	4	48	12	"	Minor A
MG2DSC UEC141	Minor B Economic History of the	4	46	14		Minor B

Scheme for 4 + 1 Integrated UG and PG Programme Graduate School - KNRSE Mahatma Gandhi University

	MDC						
	MDC						
۰۲							
SEMESTER III							
Intermediate							
(200-299)							
, , , , , , , , , , , , , , , , , , ,							
٠٠							
"	Minor						
	Α						
	MDC						
	MIDC						
	VAC						
66	VAC						
	VAC						
-							

MG3VAC UEC202	2) Economic Forecasting		30	15		VAC
		SEMEST	TER IV			
	Major	4				
	Major	4				
	Major	4				
MG4DSC UEC241	Minor B Intermediate Macroeconomics	4	45	15	"	Minor B
	SEC	3			.د	
MG4SEC UEC201	 Data Analysis and Visualisation Academic Writing 		30	15		SEC SEC
MG4SEC UEC202	in Economics		35	10		
MG4VAC UEC201	VAC Foreign Exchange Market and Procedure in Foreign Trade	3	35	10		VAC
	Internship/Fieldwork	2	5	25		
	1	SEMEST	⊥ FER V	1	1	
	Major	4			Higher (300- 399)	
	Major	4			"	

	Major	4			"	
	Major	4				
MG5SEC UEC301	SEC Econophysics	3	35	10		SEC
MG5VAC UEC301	VAC Methods of National Accounting and Company Accounts	3	25	20		VAC
		SEMEST	ER VI			
	Major	4			٠٠	
	Major	4			"	
	Major	4			"	
	Major (E)	4			"	
	Major (E)	4			"	
MG6SEC UEC301	SEC Fundamental and Technical Analysis of Portfolios	3	25	20		SEC
	Total Credits	133				

SEMI	ESTER VII	
Major	4	Advance d (400- 499)

	Major (E)	4			"	
	Major (E)	4			"	
MG7DSCUE	Minor B	4	45	15	"	Minor
C441	Mathematics for Economics					В
	Minor A (F)	4	45	15	.د	MinorA
MOZDOELE					66	(E)
C421	1) Public Finance					"
MG7DSECE	2) International Finance				.د	"
U422	2) International Finance					
MG7DSECE						"
0423	3) Investment and Portfolio Analysis		"	"		
MG7DSECE U424						
MG7DSECE	4) International Trade					
U425			"	"	"	"
	5) Basic Econometrics		"	"	٠٠	"
MGDSCCEU						
426	6) Health Economics Health					"
	Economics					
MG7DSEUE	Minor B (E)	4	45	15		Minor
C441	1) Money and Banking in		"	"	"	B(E)
	Practice					"
MG7DSECE	2) Environmental Economics	"			"	"
U442						
MG7DSECE	3) Advanced Mathematical					"
0443	Economics		- C C	- CC		

MG7DSECE U444	4) Advanced Econometrics					
	SEME	STER VII	[
	Major	4			۰۵	
	Major (E)	4			66	
	Research Project	12			"	
	Major*	4			"	
	Major*	4			"	
	Major*	4			"	
	Total Credits	44				
	SEM	ESTER IX				
	Major	4			PG Level (500-599)	
	Major	4			"	
	Major	4			"	
	Major	4			"	
	Major	4			"	
	SEM	ESTER X				
	Research Project	20			"	
	Major**	4				
	Major**	4				
	Major**	4			"	
	Major**	4		<u> </u>	"	
	Major**	4			"	
Total Credits	I	40				

*Only for 4-Years Honours Students **Only for students who opt for theory courses instead of Research Project

Note: General foundations courses shall be offered by different schools. Students can flexibly choose the courses across disciplines.

Level	Foundation	Intermediate	Highe	Advance	PG
	(100-199	(200-299)	r	d (400-	Level
			(300-	499)	(500-
			399)		599)
			, í		,

Туре	Major	Minor	MDC	SEC	VAC	AEC

All	MAHATMA GANDHI UNIVERSITY Graduate School
	4 + 1 Integrated UG and PG Programme

School	KN Raj School of Economics
Programme	BA in Social Sciences
Course Title	
	Introductory Microeconomics
Course Type	Minor
Course Level	100-199
Course Code	MG1DSCUEC121
Course	Basics of Microeconomics is presented in the first unit. Fundamentals of
Overview	demand theory is provided in this unit which is followed by production and cost theories and their application. The third unit deals with the nature of perfect competitive market while monopoly power is measured in the fourth chapter. The last chapter addresses market in practice compared to perfect competitive market and monopoly market. Every unit has assignments relating to numerical problems, field study and policy analysis.

Semester	1	Credit	4
Total Student Learning Time	Instructional hours for theory	Instru practi	ictional hours for cal/lab work/field work
-	45		15
Pre-requisite	Pass in plus two-level Progr	amme	

CO No.	Expected Course Outcome	Learning Domains	PSO No.
	Upon completion of this course, students will be able to ;		
1	Understand the basics of Economics	U	
2	Assess the theoretical and policy implications of demand, production and costs	A	
3	Make familiar with different forms of market based on the degree of competition	An	
4	Make capable to take decisions in output and price to reach profit maximisation under different forms of market	S	
5	Empower to solve numerical problems and to conduct policy analysis.	E	
6	Create interest in analysing policy tools like elasticity, tax incidence, profit maximisation	С	

- 4 -	
etc.	

*(Learning Domains: Remember (R), Understand (U), Apply (A), Analyse (An), Evaluate (E) , Create (C), Skill (S))

Module 1	Hours	CO No
	13	
Trade Offs, Prices and markets, Equilibrium, Theories and Models, Positive and Normative Analysis	1	
Market Defined, Real and Nominal Prices, Decision Making and Policy Design	1	
Market Equilibrium, Changes in Market Equilibrium	2	
Elasticities of Demand and Supply	1	
Consumer Preferences and Indifference Curves	1	
Budget Constraints and Consumer Equilibrium	2	
Price Effect, Substitution, and Income effects	2	
Elasticity of Demand and Consumer Surplus	1	
Practice: Collecting data on real and nominal prices; Measuring elasticity of demand based on field level data	2	
Computation of substitution and income effect; Computation of consumer surplus based on field data	2	

Module 2 Production and Costs	Hours	CO No
	14	
Production Decision and Technology of Production	1	R
Law of Production- One and two Inputs	2	U
Law of Production- Returns to Scale	2	Α
Concepts of Costs	1	U
Determinants of Costs and Cost-Minimising Input Choice	2	Α
Short-Run and long-Run Cost	2	An
Production Possibility Curve and The Learning Curve	2	S
Practice: Fitting a production function based on actual data;	1	Α
Classification of costs based on field data		
Computation of short-run and long-run costs; Understanding actual	2	AN

nature of learning curve.		
Production Decision and Technology of Production	1	С

Module 3 Market Structure, Competitive Market and Monopoly	Hours	CO No
Power	15	
Characteristics of a Perfectly Competitive Markets	1	R
Profit Maximisation, Revenue and Supply Curve	2	U
Market Equilibrium, Changes in Market Equilibrium	2	U
Producer Surplus and long-Run Equilibrium	2	Α
Industry's Long-Run Supply Curve	2	An
Monopolists' Output Decision- Shift in Demand and Effect tax under Monopoly	2	Α
Monopoly Power and Sources of Monopoly Power	2	E
Practice: Visit a rural agricultural market and compare with the properties of Perfect competition; Prepare a supply curve by interviewing a few sellers.	1	С
Compute producers' surplus based on a numerical example, Compare short-run and long-run supply curves based on change in cost trends based on actual data.	2	S
Trace the history of Indian Railway or KSRTC as a monopoly firm	1	E

Module 4 Imperfect Competitive Market	Hours	CO No
	16	
Social Costs of Monopoly Power	1	
Monopsony and Monopsony Power	1	
Price Discrimination 2		
Monopolistic Competition and equilibrium 2		
Monopolistic Competition and Economic Efficiency 1		
Equilibrium in the Oligopoly Market 2		
The Cournot Model and Stackelberg Model 2		
Price Competition with Homogenous Products 1		
Price Competition with Differentiated Products	2	

Practicum: Study price discrimination by KSEB or Kerala Water Authority; Compute monopoly Power; study the role of a purchaser as a monopsonist.	2	
Take the case of a monopolistic Industry like Bath soap or textile industry	2	
Study the case of telecom or Airline firms in India as a case of Oligopoly	2	

Mode of Transaction	Classroom activities: Lectures, Assignments, PPT, Numerical Analysis, Self-Assessment by students,
	Field activities: Visits to market, Households and Industries.
	Lab based activities: Computer Lab
Mode of	Continuous Internal Assessment (CIA)
Assessment	• Seminar Presentation – a theme is to be discussed and identified to prepare a paper and present in the seminar
	Assignments
	Numerical applications Policy discussion
	Semester End examination

1) Robert S. Pindyck, Daniel L Rubinfeld and Prem L Mehta (2013): Microeconomics, Pearson Prentice Hall of India Ltd.: New Delhi

2) Robert. H. Frank (2000): Microeconomics and Behavior, Irwin Mc Graw – Hill.

3) A Koutsosiannis (1978): Modern Microeconomics, Macmillan.

https://digitalcommons.du.edu/cgi/viewcontent.cgi?article=1372&context=etd https://ceswp.uaic.ro/articles/CESWP2015_VII3_BAL.pdf

Relevance of Learning the Course/ Employability of the Course

This is a theory-oriented course but has application side like policy analysis and managerial decision making. Those who are employed as managers and policy analysts require basic training in this field. This course is important for getting employment as managers, engineers, policy analysts, capital market analysts etc.



School	KN Raj School of Economics
Programme	BA in Social sciences

Course Title			
	Introductory Macroeconomic	CS	
Course Type	Minor		
Course Level	100-199		
Course Code	MG2DSCUEC121		
Course Overview	Basics of Macroeconomics is pre- economy is the concern of the money, monetary policy and fisc module. Twin deficits and open fourth module. Capital mobility is	esented in the finnext module. M al policy are the of economy models a major theme in t	rst Module. Two sector oney market, theory of components in the third are the concern of the the last module.
Semester	2	Credit	4
Total Student Learning Time	Instructional hours for theory 52	Instruc practic	ctional hours for al/lab work/field work 8
Pre-requisite	Pass in plus two-level Progra	amme	

CO No.	Expected Course Outcome	Learning Domains	PSO No.
	Upon completion of this course, students will be able to ;		
1	Comprehend the basic concepts and circular flow of the Macroeconomy.	U	
2	Assess the influence of real and money markets	A	
3	Analyse the impact of changes in expenditure, rate of interest and exchange rate on income.	An	
4	Compare real market, money market, domestic economy and open economy.	E	
5	Create interest in critically assessing the policy implications in the fluctuations of the economy.	A,	
6	Create interest in analysing policy tools like multiplier, budget deficit, trade deficit etc.	С	

*(Learning Domains: Remember (R), Understand (U), Apply (A), Analyse (An), Evaluate (E), Create (C), Skill (S))

Module 1 Nature Macroeconomics in an Economy	Hours	CO No
	16	
Macroeconomics Defined	1	1
Macroeconomics in the short run and long run.	2	1
National Income (NI) concepts	1	2
NI – Income approach	2	2
NI – Product approach	2	1
NI – Expenditure approach	2	1
National Income Statistics in India	2	1
Limitations of NI accounts	2	1

Practicum: Assess Fluctuations in Indian economy; Find out items of income and expenditure in India	2	3
Prepare a brief write up on the nature of national income data in India	2	3

Module 2 Two Sector Economy	Hours	CO No
	15	
Income flow from business firms to households	2	1
Nominal GDP, Real GDP, and GDP deflator	2	1
Consumption function	2	3
Saving function	1	2
Investment Function	2	3
Multiplier effect, interest rate, rate of return , and Autonomous spending.	2	3
Equilibrium of the economy	2	6
Practicum: Consumption and saving behaviour in India	2	1
Computation of multiplier based on Indian national income data.	2	4

Module 3	Hrs.	Co.
	14	No.
Money market	2	4
Quantity theory of money	2	2
Role of monetary policy and economic equilibrium	2	3
Role of fiscal policy and economic equilibrium	2	3
Interaction of monetary and fiscal policies	2	3
Policy mix	2	4
Practicum: Money market in India	2	5
Crowding out in India	2	6

Module 4	The Open Economy	Hours	CO No

	15	
The Twin Deficits	2	1
Budget deficit in developing countries	1	4
Foreign Trade and the Balance of Payments	1	3
Exchange Rate Systems	2	3
Determinants of Net Exports	2	4
The Real Exchange Rate and the Interest Rate	2	4
Capital Mobility	1	5
Aggregate Demand and Aggregate Supply	2	4
Practicum: History of Budget Deficit in India	2	1
The Impact of COVID – 19 and twin Deficits in India	2	6

Mode of Transaction	Classroom activities: Lectures, Assignments, PPT, Numerical Analysis, Self-Assessment by students,
	Field activities: Interactions with Chamber of Commerce, Industrialists, Service providers, Consumers' Associations
	Lab based activities: Computer Lab
Mode of	Continuous Internal Assessment (CIA)
Assessment	• Seminar Presentation – a theme is to be discussed and identified to prepare a paper and present in the seminar
	Assignments
	Numerical applications
	• Policy discussion
	Semester End examination

- 1. Robert J Gordon: Macroeconomics, Harper Collins.
- 2. N George N Mankiw: Principles of Macroeconomics, Cengage, 9th Edition.

Relevance of Learning the Course/ Employability of the Course

Understanding of macroeconomy is necessary to know one's own economy. This is an important course for competitive examinations like civil services, RBI, NABARD, Banking services etc. The impact of economic policies on common man can be understood only through a basic training in macroeconomics. It is also significant in understanding the relative position of the one's own economy in the context of global economy.

	MAHATMA GANDHI UNIVERSITY Graduate School
विवाया अपूरतमण्डन	4 + 1 Integrated UG and PG Programme

School	KN Raj School of Economics
Programme	UG Programme in Basic Sciences and Social sciences

Course Title			
	An Introduction to the India	n economy	
Course Type	MDC		
Course Level	100-199		
Course Code	MG1MDCUEC101		
Course	The course in Introductio	n to Indian E	Conomy' is a basic
Overview	treatment of the economy	meant for l	earners of different
	disciplines. It has three m	odules where	a travel is arranged
	from pre-colonial period to	the present	in the first module.
	Development experience of	India with a few	w burning issues are
	presented in the second mod	lule. The conte	nt of the last module
	touches the recent issues in	Indian Econor	ny. Each module has
	topics for understanding th	e local econom	ny in the light of the
	content of this course.		
Semester	1	Credit	3
	Instructional hours for	Instru	ctional hours for
Total Student	theory	practic	al/lab work/lield work
Learning Time			
	38		7
Pre-requisite	Pass in plus two-level Progra	amme	
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CO No.	Expected Course Outcome	Learning Domains	PSO No.
	Upon completion of this course, students will be able to;	-	
1	Understand the evolution of the Indian economy from the medieval period to the present.	U	
2	Try to translate national level ideas to apply to a local context.	A	
3	Analyse the modernisation of the economy and its advantages to the people.	An	
4	Analyse the various economic issues of the Indian economy.	E	
5	Create interest in critically assessing the policy implications in addressing the issues of the economy.	C	
6	Develop ability to understand a local or regional economy	S	

*(Learning Domains: Remember (R), Understand (U), Apply (A), Analyse (An), Evaluate (E), Create (C), Skill (S))

Module 1 Indian Economy from Pre-colonial Period to the Present	HRs.	CO. No.
	15	
India from 'Fabulous riches of the East' to 'Asiatic Mode of Production' and Colonial Indian Economy.	2	1
Drain theory, Swadeshi movement, Economy during world wars and the population divide	2	1
India as a Mixed economy- Nehru-Mahalanobis model and an overview of economic planning in India	2	1

Plan holidays, Structural retrogression and turnaround of the Economy in the 1980s	3	2
New Economic Policy and Globalizing India.	3	1
Practicum: A debate on the economic history of India since the pre-colonial period	2	2
Prepare a document on the Planning experience in India	2	2
Collect information from at least ten respondents' perception about the economic reforms in India.	2	3

Module 2 Major Aspects in Indian Economy	Hours	CO No
	15	
Development experience of India, Kerala, Gujarat and UP: A comparison	2	1
Poverty and Inequality-economic, social, gender and spatial dimensions	2	2
Farmer's Distress and Protests	2	2
Energy insecurity and vulnerable climatic conditions	2	3
India's instability in Foreign Trade and Balance of Payments	2	3
The termination of Five-Year Plans and the installation of NITI Ayog	2	4
Practicum: Document the extent of poverty and inequality in your locality.	2	2
Try to comprehend the condition of farmers in a village and report it	2	1
What are the impacts of climate variability in one's locality?	2	4

Module 3 Recent Trends in Indian Economy	Hrs.	Co.

	15	No.
Demonetization and its impact on various sectors	2	5
Introduction of GST and its outcome.	2	5
Insolvency and Bankruptcy Code (IBC) and its implications	2	5
Import Substitution and Atma Nirbhar Bharat	2	5
Digitalisation of Indian economy	2	3
India as the Chairing Country of G-20 and global economy	2	1
Unemployment among Youths in India	1	3
Practicum : Enquire the impact of demonetisation among small traders and households in your locality.	2	6
Study the fact relating to unemployment among youth, the impact of digitalisation and demand for domestic goods in your village or town.	2	5

Mode of Transaction	Classroom activities: Lectures, Assignments, PPT, Numerical Analysis, Self-Assessment by students,
	Field activities: Visits to villages and towns to assess the condition of local economy.
	Lab based activities: Graphing of Indian Economic Data
Mode of Assessment	Continuous Internal Assessment (CIA) Seminar Presentation – a theme is to be discussed and identified to prepare a paper and present in the seminar Assignments Numerical applications

Policy discussion
. Reports based on field visits
Semester End examination

1.Kurien, C. T. (1992): The Economy: An Interpretative introduction, New Delhi: Sage.

2. Sen, A.K. (2005): The Argumentative Indian, London: Penguin.

3. Dreze, Jean and Amartya Sen (2013): An Uncertain Glory-India and its Contradictions, London: Penguin

4. Economic Survey, Govt. of India, Various issues.

Relevance of Learning the Course/ Employability of the Course

As a multidisciplinary course, this is useful learners from any discipline. A learner's understanding of economic environment enables them to compete in various careers from civil service, managerial posts to clerical posts. This is also relevant in developing appropriate technology by scientists and technocrats. Further, a basic knowledge in Indian economy makes a person to judge economic policies before casting her vote.

MAHATMA GANDHI UNIVERSITY

	Graduate School
A CONTRACTOR	
सित्यमा अमृतमाप्रमुग	4 + 1 Integrated UG and PG Programme

Total Student	Instructional hours for		Instruc	tional hours for
Semester	1	Cre	edit	3
Course Overview	This course is designed to impar for research in Social Science/ Hi a way that even students who ha can understand the basic theory The course starts with the basic (Module 1) and research desig presentation of data are provi descriptive measures is included is also the concern of that modu	t tra uma ave r and idea n. ded in n le.	ining in statis nities. Topics no primary kn procedures in as relating to Different mer in module 2 nodule 3. Use	tical methods required are so designed in such owledge of Statistics nvolved. social science research thods of sampling and 2. Study about various of relevant soft- wares
Course Code	MG2MDCUEC101			
Course Level	100-199			
Course Type	MDC			
Course Title	Basics of Data Analysis for Basic	Scie	ences and Soc	ial Sciences.
Programme	UG Programme in Basic Sc	ien	ces and So	cial sciences
School	KN Raj School of Economics			

Learning Time	theory	practical/lab work/field work
	35	10
Pre-requisite	Pass in plus two-level Programn	ne

CO No.	Expected Course Outcome	Learning Domains	PSO No.
	Upon completion of this course, students will be able to ;		
1	Familiarise with the basic and advanced concepts in social science research.	U	
2	Prepare questionnaires, collect data and present it scientifically	A	
3	Analyse both secondary and primary data	An	
4	Design research and assess data to prepare a brief report.	E	
5	Conduct a sample survey independently	С	
6	Explore new ways of presenting and analysing data with help of software.	S	

*Learning Domains: Remember (R), Understand (U), Apply (A), Analyse (An), Evaluate (E), Create (C), Skill (S)

Module 1 BASIC CONCEPTS OF SOCIAL SCIENCE RESEARCH	HRs.	CO. No.
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	16	
Features of research in social sciences and humanities – Meaning, objectives, and significance of research - tools and methods of research – Different research designs	4	1
Types of data - Quantitative and qualitative data—Sources of data —Distinction between primary data and secondary data	3	2
Various methods of collecting primary and secondary data – Observation method, interview method, Questionnaire method, schedule method	3	2
Guidelines for preparing a questionnaire – Difference between questionnaire method and schedule method – merits and demerits - difference between survey and experiment	3	2
Practicum: Collect a few examples from secondary data and give a few observations from them	2	4
Prepare a questionnaire assuming a set of objectives	2	2
Document a few facts based on observation of a field/ lab situation and an interview method.	2	2

Module 2 Sample Design and Presentation of Data	Hours	CO No
	14	
Sampling Design -Census or Sample Survey - – Different steps in sampling design	2	4
Different types of sample design - Probability and non-probability sampling.	2	4
Different methods to obtain a random and non-random sample from a population	3	4
Processing and presentation of collected data	2	3
Presentation of data using diagrams and graphs	2	3
Practicum: Conduct a census method (very small population) and sample survey.	2	5

Have a debate on the advantages and disadvantages of random and non-random sampling	2	1
Present the collected data based on census and sample methods	2	3

Module 3 Descriptive Statistics and Software Training	Hrs.	Co.
	15	No.
Descriptive measures – its properties - Measures of central tendency	3	3
Measures of dispersion – relative and absolute measures – coefficient of variation - Merits and demerits of each.	3	4
Moments – raw and central - Measures of skewness and kurtosis.	2	4
Bivariate distribution - Correlation analysis	2	4
Introduction of Software packages: Excel, SPSS	3	3
Practicum: Presentation of Data based on Excel	2	3
Presentation of Data and computation of Descriptive Statistics based on SPSS	2	6

Mode of Transaction	Classroom activities: Lectures, Assignments, PPT, Data Analysis, Self-Assessment by students.
	Field activities: Visits to villages and towns to collect data
	Lab based activities: Presentation and analysis of data
Mode of	Continuous Internal Assessment (CIA)
Assessment	• Seminar Presentation – a theme is to be discussed and identified to
	Assignments

Numerical applications and data analysis
Reports based on field visits
Semester End examination

1. Johne Freund (1981): Modern Elementary Statistics, (new Delhi: Prentice-Hall of India).

2. A.L. Nagar & R.K. Das (1977): Basic Statistics, (Delhi: Oxford Univ. Press).

3. A.L. Nagar, V.N. Pandit & Balvir Singh (1979): *Elementary Statistics*, (Delhi: Oxford Univ. Press).

Relevance of Learning the Course/ Employability of the Course

This is a course fit to learners of all disciplines. Data analysis has become a base for scientific approach in almost all sciences. This is a powerful capacity building course for getting employment in the fields like capital market, market research, research institutions, policy analyst etc. Moreover, skill in data analysis is a must for understanding most of the disciplines.