

TEACHING PLAN**2nd SEMESTER-2024****January 2026 – June 2026****SUBJECT: ECONOMICS****PAPER NAME & PAPER CODE: BASIC ELEMENTS OF ECONOMICS (ECO020104)****TOTAL CREDIT: 4 CREDITS Contact Hours: 60****Total Marks: 100 Internal: 40****External: 60****TEACHER NAME: Dr. Jublee Goswami, Associate Professor and Head, Dept. of Economics**

Unit Details	Time Period	Marks	No. of Classes	Mode of Teaching	Mode of Evaluation
Unit-1 Basics of Data Collection	Jan-Apr	Not defined	20	ICT lecture	Sessional Exam
Data, Types, Methods of Collection of Primary Data	Jan		02	Lecture, PL	HA
Basic Concepts of Population and Sample, Principal steps in sample survey, methods of sampling	Jan-Feb		02	Lecture	Q
Measure of Central Tendency	Feb-Mar			Lecture	Class Test, HA, Group Discussion
Mean, Median, Mode for grouped and ungrouped data; merits and demerits; relation	Feb		07	Lecture	Q
Concepts of Harmonic Mean, Geometric mean, relation between AM, GM and HM; Percentile, Decile and Quartile concepts	Mar		03	Lecture, PL	Q
Measure of Dispersion Range, interquartile deviation, Mean deviation and Standard Deviation	Mar-Apr		06	Lecture	Class Test, HA, Group Discussion
					Q
		Q			

Q-Quiz class; HA-Home assignment, PL-Participatory Learning (Group work), PS-Problem Solving

Strategy For slow and advanced learners:

Within one month of commencement of classes one test of all the topics in the paper will be taken to test the learning ability of students.

PPTs are prepared and voice recorded for slow learners; more assignments are there to aid slow learners

Advanced learners: Advanced Problem solving, Swayam Portal materials to be shared

Teaching Plan

Session: 2025-26 (January- May)

Class: 4th Sem Major

Course Name: Introductory Quantitative Techniques for Economics

Course Code: ECO040304 Course Credit: 4 Contact Hours: 60

Marks: 100 (40 Internal and External 60)

Teacher Name: Dr. Jublee Goswami, Associate Professor and Head, Dept. of Economics

Unit Details	Marks	Time Period	No. of Classes	Mode of Teaching	Mode of Evaluation
Unit-1: Preliminaries of Mathematics	10	Jan-Feb	08	ICT lecture	
Terminologies: constants, Variables; Number system		Jan	01	Lecture, PL	Q
Sets and set operations, Ord. pairs & Cartesian products		Jan	03	Lecture, PS	HA
relations and functions, Types of functions		Feb	01	PL	Q
Limit and Continuity		Feb	02	Lecture, PS	HA
Evaluation of Unit 1		Feb	01		Class Test
Unit 2: Differential Calculus	20	Feb-Mar	12	ICT lecture	
Differentiation of a function, Economic significance; Basic rules of differentiation,		Feb	03	Lecture, PS	HA
second and higher order derivatives for single variable		Feb	01	Lecture	Q
partial and total differentiation		Feb	03	Lecture	HA
Economic applications of differentiation.		Mar	03	PL	HA
Evaluation of Unit 2		Mar	02		Class Test
Unit 3: Integration of Functions	20	Mar-Apr	12	ICT lecture	
Meaning and significance of integration, basic rules of integration, significance of a constant after integration		Mar	04	Lecture, PS	Q, HA
applications: derivations of total functions		Mar	03	PL	HA
Definite integral and its application		Mar	03	Lecture	HA
Evaluation of Unit 3		Mar	02		Class Test
Unit 4: Single Variable Optimization	20		08	ICT lecture	
Concepts and conditions		Apr	03	Lecture	Q

Unit 5: Correlation Analysis	15	Apr-May	10	ICT lecture	
Concepts, Coefficient of linear correlation, Properties of Correlation coefficient		Apr	03	Lecture, PS	HA
Rank Correlation		Apr	02	Lecture	Q
Partial and Multiple Correlation		May	02	Lecture	Q
Evaluation of Unit 5		May	03		Class Test
Unit 6: Regression Analysis	15	May	10	ICT lecture	
Regression: Concept, Difference with Correlation Analysis, Properties		May	02	Lecture	Q
Estimation of regression line in a bivariate distributionLeast squares method		May	04	Lecture, PS	HA
properties of regression coefficients		May	01	Lecture	Q
Evaluation of Unit 6		May	03		Class Test
Applications		Apr	04	PL	HA
Evaluation of Unit 4		Apr	01		Class Test

Q-Quiz class; HA-Home assignment, PL-Participatory Learning (Group work), PS-Problem Solving

Strategy for slow and advanced learners:

Within one month of commencement of classes one online test in google form will be taken to test the learning ability of students.

PPTs are prepared and voice recorded for slow learners; Class assignment and home assignment are there to aid slow learners

Advanced learners: Problem solving, Swayam Portal materials to be shared

Teaching Plan 2025-26

Class: 6th Sem Major

Course Name: Basics of Econometrics Course Code: ECO060204

Course Credit: 4 Contact Hours: 60 (52 Contact and 08 Non-Contact)

Marks: 100 (40 Internal and External 60)

Teacher Name: Dr. Jublee Goswami, Associate Professor and Head, Dept. of Economics

Unit Details	No. of Classes	Marks	Time Period	Mode of Teaching	Mode of Evaluation
1.Statistical Background	10 Contact + 4 noncontact	15	Jan-Feb	L, PS	Worksheet, Quiz, Sessional, Class test
Normal Distribution: Definition, Properties, Numericals on Property	01		Jan	L, PS	Class test, Worksheet, Quiz
Basic Terminology in Tests	01		Jan	L	Quiz
Large Sample Z test	03		Jan	L, PS	Class Test, worksheet
F Test	01		Feb	L,PS	Class Test, worksheet
Students t Test	02		Feb	L,PS	Class Test, worksheet
Chi-Square Test	02		Feb	L,PS	Class Test, worksheet
Worksheets	04 (noncontact)			Jan-Feb	
2. Simple Linear Regression Model	12	25	Feb-Mar	L, Participatory Learning	
Concept of 2VLRM, Rationale of Random Term, Derviation of estimators, Standard Assumptions, Numericals	04		Feb	L, Pr L	Class Test, worksheet, presentation

BLUE properties	03		Feb	L, Pr L	Class Test, worksheet
Goodness of fit	02		Feb	L	Quiz
tests of hypotheses, scaling and units of measurement, confidence intervals, forecasting.	03		Feb	L	Quiz
Worksheet	03 (noncontact)				-
3. Multiple Linear Regression Model	10	15	Mar-Apr	L, PS	
Estimation of parameters, properties of OLS estimators	05		Mar	L, PS	Class Test, worksheet
goodness of fit, R ² and adjusted R	01		Mar	L	Quiz
partial regression coefficients, testing hypotheses – individual and joint, functional forms of regression models	02		Mar	L	Quiz
Dummy Variables	02		Apr	L	Quiz
Worksheet	03 (noncontact)				-
4. Violations of Classical Assumptions	10	15	Apr	L, PS	
Meaning, Sources, Causes, Consequences and Remedies to Heteroscedasticity	03		Apr	L	Quiz
Meaning, Sources, Causes, Consequences and Remedies to Multicollinearity	03		Apr	L	Quiz

Meaning, Sources, Causes, Consequences and Remedies to Autocorrelation and numericals	04		Apr	L, PS	Quiz, Worksheet
Worksheet	01 (noncontact)			-	-
5.Specification Analysis	10	15	May	L	
Omission of a relevant variable	03		May	L	Quiz
inclusion of irrelevant variable	03		May	L	Quiz
tests of specification errors	04		May	L	Quiz

L- Lecture, PS-Problem Solving, Pr L- Participatory Learning

Teaching Plan 2025-26

Class: 2nd Sem VAC

Course Name: Basics of Econometrics Course Code: ECO060204

Course Credit: 2 Contact Hours: 30

Marks: 50 (10 Internal and External 40)

Teacher Name: Dr. Jublee Goswami, Associate Professor and Head, Dept. of Economics

Unit Details	No. of Classes	Marks	Time Period	Mode of Teaching	Mode of Evaluation
Unit 1: Trade and Commerce	07	12	JaanFeb	Lecture	Quiz, Sessional
Concept of trade and commerce, difference between trade and commerce and nature and scope	04		Jan	Lecture	Quiz, Sessional
Trade in Ancient India: Pre and Post Independence	02		Feb	Lecture	Quiz, Sessional
Intersectoral growth and comparisons	01		Feb	Lecture	Quiz, Sessional
Unit 2: Natural Resources, Agriculture and Forests resources	09	14	Feb	Lecture	Quiz, Sessional, Practical
Natural resources, types	01		Mar	Lecture , Practical	Quiz, Sessional
Agriculture: Importance, Challenges, Major Crops, Land Use, Cropping	03		Mar	Lecture	Quiz, Sessional
Forest Protection and Conservation: Forest Conservation Act, Compensatory Afforestation Bill, Forests Rights and its relevance	03		Mar	Lecture	Quiz, Sessional
Mineral Resources, Types and Availability in India	01		Apr	Lecture, Practical	Quiz, Sessional

Manufacturing Sector: Agriculture and Mineral Based Industries	01		Apr	Lecture	Quiz, Sessional
Significance and Problems of Transportation	02		Apr	Lecture	Quiz, Sessional
Significance and Problems of Banking and Insurance	01		Apr	Lecture	Quiz, Sessional
Tourism Sector: Significance, Challenges, Scope in Assam	03		Apr-May	Lecture, Practical	Quiz, Sessional
Unit 4: Some Great Entrepreneurs of India and Assam	07	12	May	Practical	Quiz, Sessional
Status of Forests, Mineral Resources and Agriculture in Assam	01		Apr	Lecture, Practical	Quiz, Sessional
Unit 3: Industry and Service Sector	07	12	Apr-May	Lecture	Quiz, Sessional