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(Estd. 1916)
92, S.P. Mukherjee Road
Kolkata – 700026

Phone: 2455-4504/ 2486-3912
Fax   : (033) 2486-3006
Mail   : mail @asutoshcollege.in
Web   : www.asutoshcollege.in

DEPARTMENT OF **ECONOMICS**

TEACHING PLAN FOR **SEMESTER 1**

NAME OF FACULTY : **DR. NANDINI MUKHERJEE (HOD)**

PAPER :   **CC1**-INTRODUCTORY MICROECONOMICS

LECTURES ALLOTED: 38

ALLOTED SYLLABUS:Unit-1,2,3,5

TOPIC/SUBTOPIC: **CC1**	
LEC. NO.	PROPOSED TOPIC(S) TO BE TAUGHT
1-10	**Unit1**-*Exploring subject matter of economics*:
1-3	Scope &Methods
4-6	Principles of Microeconomics
7&8	Gains from Trade
9&10	Working with Graphs
11-20	**Unit2**-*Demand &Supply*:
11-15	Theory of Demand and Supply
16&17	Theory of Market Price
18-20	Equilibrium-Existence,Uniqueness and stability
21-30	**Unit3**-*Market and Adjustments*:
21-24	Evolution of Market economies; Household ,Firms
25-27	Concepts of markets
28-30	Types of Goods
31-38	**Unit5**-Government Intervention:
31-35	Economic role of government
36-38	Comparison of markets with or without government

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Mail : mail @asutoshcollege.in
Web : www.asutoshcollege.in

TEACHING PLAN FOR **SEMESTER 3**

NAME OF FACULTY : **DR. NANDINI MUKHERJEE**

PAPER :   **CC6**-INTERMEDIATE MACROECONOMICS

LECTURES ALLOTED: 75

ALLOTED SYLLABUS:Unit-1-5 (ALL)

TOPIC/SUBTOPIC: **CC6**	
LEC. NO.	PROPOSED TOPIC(S) TO BE TAUGHT
1-14	**Unit1**-*Income determination in the short run-IS-LM model*
1-8	Equilibrium, stability, comparative statics,
8-10	Crowding out
10-14	Monetary &Fiscal policy
15-28	**Unit2**-*Aggregate demand and supply-The Complete Keynesian Model*:
15-20	Derivation of DD-SS curves
20-24	Equilibrium, stability, comparative statics,
25&26	Monetary &Fiscal policy
27&28	Unemployment equilibrium, Real balance effect
25-27	Concepts of markets
28-30	Types of Goods
29-38	**Unit3**-Keynes vs Classics
29-30	Keynesian vs Classical system
31-34	Hybrid models
35-38	Friedman's ideas
39-55	**Unit4 –**Money Supply, Monatary policy
39-41	Measures of money supply,

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42-45	Balance sheet, High powered money
46-49	Multiplier, Interest sensitivity of money supply
50-55	Monetary policy, Deficit financing
56-75	**Unit 5-**Inflaion, Unemployment and Expectations
56 &57	Inflation-Background and concepts, Inflationary Gap
58-62	Demand pull and Cost Push inflation
63-65	Mark-up inflation, Stagflation
66-69	Models of aggregate supply
70-75	Inflation-unemployment trade off, Phillips curve, Policies

PAPER :**SEC A1**-RURAL DEVELOPMENT

LECTURES ALLOTED: 14

ALLOTED SYLLABUS:Unit-1,4

TOPIC/SUBTOPIC: **SECA1**	
LEC. NO.	PROPOSED TOPIC(S) TO BE TAUGHT
1-6	**Unit1**-*Aspects of rural development*
1&2	Concepts, Rural vs Agricultural Development
3&4	NGOs and RD
5&6	Rural non farm sector and RD
7-14	**Unit4**-*Government programmes and RD*
7&8	MGNREGA
9-11	Child labour and Mid day meal
12-14	NRHM, PMGSY

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TEACHING PLAN FOR **SEMESTER 5**

NAME OF FACULTY : **DR. NANDINI MUKHERJEE**

PAPER :   **CC12**-INDIAN ECONOMY

LECTURES ALLOTED: 40

ALLOTED SYLLABUS:Unit-1,3

TOPIC/SUBTOPIC: **CC12**	
LEC. NO.	PROPOSED TOPIC(S) TO BE TAUGHT
1-20	**Unit1**-*Economic Develoment since Independence*
1-8	Objectives, Achievements and Failures of Planning
9-11	Economic crisis
12-15	Economic Reforms
16-20	Structural changes in post reforms, Regional variation
21-40	**Unit2**-*Growth and Distribution*
21-25	GDP and it's trends
26-30	Growth, Poverty, Inequality
31-35	Youth Unemployment
36-40	Policy perspectives in growth and distributiom
66-69	Models of aggregate supply
70-75	Inflation-unemployment trade off, Phillips curve, Policies

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Kolkata – 700026

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Mail   : mail @asutoshcollege.in
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TEACHING PLAN FOR **SEMESTER 3(GENERAL)**

NAME OF FACULTY : **DR. NANDINI MUKHERJEE**

PAPER :   CC3/GE3-ISSUES IN ECONOMIC DEVELOPMENT AND INDIA

LECTURES ALLOTED: 60

ALLOTED SYLLABUS:Unit-1,2,4

TOPIC/SUBTOPIC: **CC6**	
LEC. NO.	PROPOSED TOPIC(S) TO BE TAUGHT
1-25	**Unit1**-Meaning of Economic Development
1-20	**Unit2**-Poverty,Inequality and Development
1-15	**Unit4**-International organizations and economic development

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DEPARTMENT OF ECONOMICS

TEACHING PLAN FOR SEMESTER 1

NAME OF FACULTY : SUPARNA BASU

PAPER :   CC2-Mathematical Methods in Economics-I

LECTURES ALLOTED: 55

ALLOTED SYLLABUS:

Unit 1- Preliminaries

Unit 2- Functions of one real variable

Unit 3- Single variable optimization

Unit 4 - Integration of functions

Unit 6- Game Theory

TOPIC/SUBTOPIC:	
LEC. NO.	PROPOSED TOPIC(S) TO BE TAUGHT
1	Sets
2	set operations
3	functions and their properties;
4	number systems
5	Convex sets; geometric properties of functions:
6	convex functions, their characterizations, properties and applications;
7	further geometric properties of functions: quasi-convex functions
8	quasi-concave functions, their characterizations, properties and applications
9	Limit and continuity-Different Limit Theorems with proof-concept of first principle
10	Uses of the concept of continuity.
11	Continuous functions of different types and their graphs- quadratic, polynomial,
12	Continuous functions of different types and their graphs- power, exponential, and logarithmic.
13	Concept of derivatives
14	Limits and derivatives L' Hospital's rule
15	Graphical meaning of derivatives.

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16	Derivatives of first and second order and their properties
17	convex, concave and linear function.
18	Application in economics- concept of marginal
19	Concept of elasticity
20	Concept of average function
21	Local optima
22	global optima
23	Geometric characterizations
24	characterizations using calculus
25	Significance of first order conditions
26	Significance of second order conditions
27	Interpretation of necessary conditions with examples.
28	Interpretation of sufficient conditions with examples.
29	Applications in Economics- profit maximization
30	Applications in Economics-cost minimization
31	Integration of different types of functions-I
32	Integration of different types of functions-II
33	Methods of Substitution-I
34	Methods of Substitution-II
35	integration by parts-I
36	integration by parts-II
37	integration by parts-III
38	Applications in economics- obtaining total from the marginal---I
39	Applications in economics- obtaining total from the marginal---II
40	Applications in economics- obtaining total from the marginal---III
41	Concept of a game-I
42	Concept of a game-II
43	Concept of a game-III
44	strategies and payoffs
45	Zero-sum games-I
46	Nash equilibrium-II
47	maxmin and minmax solutions
48	Dominant Strategy Equilibrium
49	Nash equilibrium-I
50	Nash equilibrium-II
51	Nash equilibrium-III
52	Nash equilibrium in the context of some common games
53	Prisoners' Dilemma
54	Battle of Sexes
55	Matching Pennies

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TEACHING PLAN FOR SEMESTER 1

PAPER :   CC5- Intermediate Microeconomics –I

LECTURES ALLOTED: 75

ALLOTED SYLLABUS:

Unit 1- Theories of Consumer Behaviour and Applications

Unit 2 – Production and Costs

Unit 3 – The Firm and Perfect Market Structure

Unit 4 – Input Market in Perfect Competition

LEC. NO.	PROPOSED TOPIC(S) TO BE TAUGHT
1	Theories of Consumer Behaviour and Applications
2	Inter-temporal choice (saving and borrowing)-I
3	Inter-temporal choice (saving and borrowing)-II
4	Inter-temporal choice (saving and borrowing)-III
5	Inter-temporal choice (saving and borrowing)-IV
6	Revealed preference-I
7	Revealed preference-II
8	Revealed preference-III
9	Revealed preference-IV
10	Choice under uncertainty – utility function and expected utility-I
11	Choice under uncertainty – utility function and expected utility-II
12	Choice under uncertainty –risk aversion and risk prefrence-I
13	Choice under uncertainty –risk aversion and risk prefrence-II
14	Choice under uncertainty –risk aversion and risk prefrence-III
15	Applications of Consumer Behaviour in Construction of Price Indices-I
16	Applications of Consumer Behaviour in Construction of Price Indices-II
17	Laspeyers and Paasche's indices-I
18	Laspeyers and Paasche's indices-II
19	Production and Costs
20	Technology
21	general concept of Production Function
22	production with one variable input
23	production with two variable inputs
24	total average and marginal products
25	short run and long run
26	returns to factor

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27	returns to scale
28	Isoquants
29	marginal rate of technical substitution
30	isocost line and firm's equilibrium
31	elasticity of substitution
32	Types of production functions-Cobb-Douglas, fixed-coefficient
33	CES functions
34	Cost structure- implicit cost, explicit cost, accounting cost
35	sunk cost, economic cost, fixed cost, variable cost,
36	total, average and marginal cost
37	Determinants of short run cost, cost curves,
38	cost minimization and expansion path,
39	short versus long run cost curves
40	economies of scale
41	The Firm and Perfect Market Structure
42	Organization-I
43	Organization-II
44	Firms and Profit Maximization
45	Marginal Revenue, Marginal Cost
46	Profit Maximization
47	Perfect competition-I
48	Perfect competition-II
49	short run competitive equilibrium of the firm
50	short run supply curve of firm and industry
51	Output choice and competitive equilibrium in long run
52	Economic rent
53	Economic profit
54	long-run industry supply- constant, increasing and decreasing cost.
55	Consumer surplus
56	Producer surplus
57	welfare and efficiency of competitive equilibrium
58	Government intervention and dead weight loss,
59	Application- Minimum prices
60	price supports
61	price ceiling and price floors
62	Input Market in Perfect Competition
63	Basic concept- derived demand
64	productivity of an input, marginal product of an input
65	marginal revenue product
66	Marginal productivity theory of distribution-I

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67	Marginal productivity theory of distribution-II
68	Marginal productivity theory of distribution-III
69	Labor market-supply of labor-I
70	Labor market-supply of labor-II
71	competitive labor markets-I
72	competitive labor markets-II
73	Land markets-I
74	Land markets-II
75	rent

TEACHING PLAN FOR SEMESTER 5

PAPER :   CC12- Indian Economy
LECTURES ALLOTED: 35

ALLOTED SYLLABUS:

Unit 2 – Population and Human Development

Unit 4- Economic Reforms in India

LEC. NO.	PROPOSED TOPIC(S) TO BE TAUGHT
1	Population and Human Development
2	Demographic trends and issues
3	Demographic Transition in India
4	Demographic Trend
5	Demographic Dividend
6	Implications of Demographic Dividend
7	Education: Importance and Basic problems
8	Government Policies on education
9	measures -some flagship programmes
10	Critical evaluation
11	Right to Education Act (2009)[Basic features]
12	Health: Basic problems
13	India's health care crisis
14	inequalities in the access to education and public health care
15	Government measures
16	Economic Reforms in India
17	Banking sector reforms -I
18	Banking sector reforms -II
19	Policies and Performance Analysis
20	Reforms in tax policy -I

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21	Reforms in tax policy -II
22	Basic Features of Indian Tax System
23	Major Reforms in Indian Tax System
24	Reforms in the external sector -I
25	Reforms in the external sector -II
26	Major Reform Measures since the early 1990s
27	Exchange Rate Policy
28	External Sector Management
29	Reforms in Labour market-I
30	Reforms in Labour market-II
31	Need for reforms in the labour market
32	Issues and challenges of labour market reforms
33	Labour Law Reforms
34	Recent Reform measures
35	Critical evaluation

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PAPER :   DSE(A)(G)- Money and Banking

LECTURES ALLOTED: 59

ALLOTED SYLLABUS:

Unit 1- Money Supply and Banking System with reference to India

Unit 2- Financial Institutions and Financial Markets

Unit 3 - Interest Rates

LEC. NO.	PROPOSED TOPIC(S) TO BE TAUGHT
1	Money Supply in India
2	Banking System with reference to India
3	definition of money supply in the Indian context
4	M1, M2, M3 and M4
5	Balance sheet of the banking sector -I
6	Balance sheet of the banking sector -II
7	accounting of money supply-I
8	accounting of money supply -II
9	balance sheet of the Reserve Bank of India -I
10	balance sheet of the Reserve Bank of India -II
11	accounting interpretation of High powered money
12	definition of high powered money
13	the money multiplier theory -I
14	the money multiplier theory -II
15	balance sheet of commercial banks -I
16	balance sheet of commercial banks -II
17	sterilization by Central Banks
18	Indian banking system -I
19	Indian banking system -II
20	Indian banking system -III
21	changing role and structure -I
22	changing role and structure -II
23	Indian banking sector reforms -I
24	Indian banking sector reforms -II
25	Indian banking sector reforms -III
26	Financial Institutions-I
27	Financial Institutions-II

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28	Financial Institutions-III
29	Financial Markets -I
30	Financial Markets -II
31	Financial Markets -III
32	Role of financial markets-II
33	Role of financial markets-II
34	Role of financial markets -III
35	Role of financial institutions in economic development-I
36	Role of financial institutions in economic development -II
37	Indian examples -I
38	Indian examples -II
39	Indian examples -III
40	Money and capital markets -I
41	Money and capital markets -II
42	organization
43	structure and reforms in India -I
44	structure and reforms in India -II
45	role of financial derivatives -I
46	role of financial derivatives -II
47	other innovations
48	Interest Rates
49	Determination -I
50	Determination -II
51	sources of interest rate differentials
52	theories of term structure of interest rates-I
53	theories of term structure of interest rates -II
54	theories of term structure of interest rates -III
55	theories of term structure of interest rates -IV
56	interest rates in India -I
57	interest rates in India -II
58	interest rates in India -III
59	interest rates in India -IV

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DEPARTMENT OF ECONOMICS

TEACHING PLAN

NAME OF FACULTY: Senjuti Ghosh Das

TEACHING PLAN FOR **SEMESTER 1**

PAPER: Introductory Microeconomics (CC1/GE1)

LECTURES ALLOTED: 36

ALLOTED SYLLABUS: Unit 4,5,6

TOPIC/SUBTOPIC:

LEC. NO.	PROPOSED TOPIC(S) TO BE TAUGHT
1-18	*Unit 4- The Firm and Perfect Market Structure*
1-3	Production function, Total Product, Average Product and Marginal Product
4-6	Returns to Scale, Behaviour of profit maximizing firms and production process
7-9	Cost function
10-12	Short run costs and output decisions, Cost and output in the long run
13-15	Features of a perfectly competitive market, Short run equilibrium under perfect competition
16-18	Supply curve of a firm, Long-run equilibrium under perfect competition
19-26	*Unit 5- Imperfect Market Structure*
19-21	Monopoly Equilibrium
22-23	Differences with perfect competition
24-26	Ideas of price-discriminating monopolists
27-36	*Unit 6- Input Markets*
27-28	Basic concepts and derived demand

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29-30	Productivity of an input
31-32	Marginal productivity of labour, marginal revenue product
33-34	Land Market
35-36	Concepts of rent and quasi-rent

TEACHING PLAN FOR **SEMESTER 3**

PAPER : Statistical Methods for Economics (CC7)

LECTURES ALLOTED: 42

ALLOTED SYLLABUS: Unit 3,4,6

TOPIC/SUBTOPIC:	
LEC. NO.	**PROPOSED TOPIC(S) TO BE TAUGHT**
1-10	*Elementary Probability Theory*
1-3	Sample space, events, definitions, properties, theorems of total probability
4-6	Conditional probability, theorem of compound probability,
7-8	Bayes' Theorem, Problem solving
9-10	Problem Solving
11-28	*Probability Distributions*
11-12	Random Variables-discrete and continuous, probability distributions-pmf and pdf
13-14	Expected values of random variables, mean, variance, moments, mgf, properties of commonly used discrete and continuous distributions
15-17	Derivation of pmf, mean, variance, moments and mgf of Binomial distributions

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18-20	Derivation of pmf, mean, variance, moments and mgf of Poisson Distribution
21-23	Derivation of pmf, mean, variance, moments and mgf of Normal Distribution
24-26	Joint pdf (pmf), marginal pdf (pmf) , conditional pdf (pmf)
27-28	Problem solving
29-42	**Statistical Inference**
29-30	Point Estimation, properties of good estimator
31-32	Principles of OLS, Maximum Likelihood Method, Method of Moments
33-34	Interval Estimation
35-36	Testing of Hypothesis
37-38	P value, type I type II error
39-42	Problem solving

PAPER :   Rural Development (SEC-A1)

LECTURES ALLOTED: 16

ALLOTED SYLLABUS: Unit 2,3

TOPIC/SUBTOPIC:	
LEC. NO.	PROPOSED TOPIC(S) TO BE TAUGHT
1-5	**Panchayats and Rural Development**
1-2	Decentralized Planning and Participatory Development
3	Role of Panchayats in decentralized planning
4	Participatory rural appraisal
5	Panchayats and rural development in West Bengal
6-16	**Rural Credit and Self-Help Groups**
6-7	Role of NABARD

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8-9	Constraints of Micro enterprises
10-11	Credit needs of for rural non farm sector
12-13	Concept of micro-credit and role of Grameen Bank
14-15	Need for SHG and its features
16	SHGs in India

PAPER :   Introductory Methods of Field Survey (SEC-A)

LECTURES ALLOTED: 15

ALLOTED SYLLABUS: Unit 1,3

TOPIC/SUBTOPIC:	
LEC. NO.	PROPOSED TOPIC(S) TO BE TAUGHT
1-8	*Basic Ideas of Economic Data*
1-2	Types of Data
3-4	Field Survey- advantages and disadvantages
5-6	Importance of Field Survey
7-8	Pilot Survey
9-15	*Recording of Data*
9-10	Method of Recording of data
11-12	Tabular presentation of data
13-14	Cross checking of data
15	Importance of units of measurement

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TEACHING PLAN FOR **SEMESTER 5**

PAPER :   International Economics (CC11)

LECTURES ALLOTED: 15

ALLOTED SYLLABUS: Unit 6

TOPIC/SUBTOPIC:

LEC. NO.	PROPOSED TOPIC(S) TO BE TAUGHT
1-15	*Open Economy Macroeconomics and Balance of Payments*
1-2	Determination of Equilibrium in a small country versus large country open economy,
3-4	Foreign trade multiplier- with and without repercussions
5-6	Transfer Problem in the context of large country open economy, Balance of Payment accounts, autonomous and accommodating transactions
7-8	Foreign Exchange Markets and its different layers, introduction of flexible versus fixed exchange rate
9-10	Concept of clean float and dirty float, Characteristic of Foreign Exchange Market
11-12	Deriving Supply and Demand for Foreign Exchange from Export and Import and Marshall –Lerner Condition
13	Mundel Fleming Model
14-15	Effectiveness of fiscal and monetary policies under different exchange rate regime

PAPER :   Applied Econometrics (DSE A1)

LECTURES ALLOTED: 35

ALLOTED SYLLABUS: Unit 1,2,3.1

TOPIC/SUBTOPIC:	
LEC. NO.	PROPOSED TOPIC(S) TO BE TAUGHT
1-10	*Steps in Empirical Research*
1-3	Use of Econometric Models
4-6	Some Basic Concepts
7-10	Some basic commands in Stata
11-30	Regression Diagnostics and Specifications
11-12	Sources of Misspecification
13-14	Underfitting and Overfitting of model, Consequences
15-17	Tests to Identify Over-fitting and Under-fitting
18-19	Measurement Error in Dependent and Explanatory Variable
20-21	Consequences of Measurement Error
22-23	Functional Forms Errors
24-25	Consequences of Functional Forms Errors
26-27	Model Selection- Problems and Consequences
28-30	Applications in Stata
31-35	*Application of Regression Analysis*
31-32	Cross Sectional data and its problems like heteroscedasticity
33-34	Consequences, Testing and Remedial measures for heteroscedasticity
35	Applications with Stata

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Mail   : mail @asutoshcollege.in
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PAPER :   Economic History of India (DSE A1)

LECTURES ALLOTED: 45

ALLOTED SYLLABUS: Unit 2.1, 2.2, 2.3, 2.4

TOPIC/SUBTOPIC:	
LEC. NO.	PROPOSED TOPIC(S) TO BE TAUGHT
1-45	*Aspects of Economic Policies in British India*
1-3	Permanent Settlement System
4-6	Mahalwari System
7-10	Ryotwari System
11-13	Discrimination in industrialization
14-16	Policy of Discriminating Protection
17-20	Industrialiation in Colonial Era, Jute Industry and Cotton Textile Industry
21-25	Early Industrial Development and Managing Agency System
26-30	Managing Agents-Functioning and Criticism
31-33	Currency and Monetary Policy
34-37	Institutionalized and non-institutionalized money lending
38-40	Money standards
41-45	Development of Infrastructure-Railways

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Fax   : (033) 2486-3006
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PAPER :   Introductory Methods of Field Survey (SEC-A)

LECTURES ALLOTED: 15

ALLOTED SYLLABUS: Unit 1,3

TOPIC/SUBTOPIC:	
LEC. NO.	PROPOSED TOPIC(S) TO BE TAUGHT
1-8	***Basic Ideas of Economic Data***
1-2	Types of Data
3-4	Field Survey- advantages and disadvantages
5-6	Importance of Field Survey
7-8	Pilot Survey
9-15	***Recording of Data***
9-10	Method of Recording of data
11-12	Tabular presentation of data
13-14	Cross checking of data
15	Importance of units of measurement

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DEPARTMENT OF

TEACHING PLAN FOR SEMESTER

NAME OF FACULTY : MANIPARNA SYAMROY

PAPER : CC1-Introductory MicroEconomics, SEC Data Analysis, CC11, DSE Economic History

TOPIC/SUBTOPIC **for Paper CC1(SEM I)** Introductory MicroEconomics	
LECTURES ALLOTED: 37	
ALLOTED SYLLABUS: Unit 4,6	
LEC. NO.	PROPOSED TOPIC(S) TO BE TAUGHT
1 & 2	Introducing the Subject Economics, Distinction between micro and macro economics
3 & 4	Elementary theory of Demand
5&6	Elementary theory of Supply
6-12	Unit 4: Market Sensitivity and Elasticity
13-37	Unit 6: Utilitarian Approach

TOPIC/SUBTOPIC for **SEC Data Analysis (Sem III Hons)**	
LECTURES ALLOTED: 30	
ALLOTED SYLLABUS: All	
1-6	Collection and representation of data
7-10	Central Statistical Office (CSO)
11- 14	National Sample Survey Office (NSSO)
15-20	Census of India
21-24	Reserve Bank of India (RBI)
25-30	Data Management in software

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TOPIC/SUBTOPIC for **CC11 (SEM V Hons)**	
LECTURES ALLOTED: 60	
ALLOTED SYLLABUS: Unit 1-5	
1-9	Unit 1: Absolute and Comparative Advantages of Trade
10-23	Unit 2: The Building Blocks of Trade Theory
24-38	Unit 3: Factor Endowment and Trade (Heckscher-Ohlin-Samuelson Model)
39-48	Unit 4: Applications of Neo-classical Trade Models for developing countries
48-60	Unit 5: Trade Policy
TOPIC/SUBTOPIC for DSE Economic History	
LECTURES ALLOTED: 39	
ALLOTED SYLLABUS: Unit 1, part of Unit 2	
1-8	Deindustrialization
9-18	Commercialization of agriculture
18-30	Economic Drain
31-39	Development of Infrastructure – Railways

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DEPARTMENT OF ECONOMICS

TEACHING PLAN FOR SEMESTER 1

NAME OF FACULTY : SHREYASEE DATTA

PAPER : **CC2-** Mathematical Methods in Economics- I

LECTURES ALLOTED: 20

ALLOTED SYLLABUS: Unit 5 Matrix Algebra

TOPIC/SUBTOPIC: Unit 5	
LEC. NO.	PROPOSED TOPIC(S) TO BE TAUGHT
1	Matrix- Basic concepts, Different types of matrices
2-3	Elementary operations, determinant and inverse of a matrix- necessary and sufficient conditions
4	Solution of system of linear equation- matrix inversion method
5	Solution of system of linear equation-Cramer's rule
6	Solution of system of linear equation- different types of solution
7-8	Rank of a matrix- numerical exercise
9-10	Characteristics equations- eigenvalues, eigenvectors numerical exercise
11	Solution of system of non-linear equation- Jacobian determinants - numerical exercise
12	Concept of comparative statics
13	Input-output analysis- basic idea- LSOM
14-15	LSOM- Assumptions, solutions
16-17	Hawkins-Simon conditions
18	Hawkins-Simon conditions- interpretations
19-20	Input-output analysis- exercise

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TEACHING PLAN FOR SEMESTER 3

NAME OF FACULTY : SHREYASEE DATTA

PAPER :   **CC7**- Statistical Methods for Economics

LECTURES ALLOTED: 33

ALLOTED SYLLABUS: unit 1, 2, 5

TOPIC/SUBTOPIC:	
LEC. NO.	PROPOSED TOPIC(S) TO BE TAUGHT
1-6	*Unit 1: Introduction and Overview*
1	Subject matter- Population vs. sample
2-3	Representation of data- graphical and tabular
4-6	Frequency Distribution
1-13	*Unit 2: Descriptive Statistics*
1-2	Measures of Central Tendency
3	Measures of Central Tendency- numerical problems
4-5	Measures of Dispersion (Range, QD, MD, SD, relative measures, Lorenz curve and Gini coefficient)
6-7	Measures of Dispersion- Numerical problems
8	Moments, skewness, kurtosis
9	Moments, skewness, kurtosis- numerical problems
10-11	Correlation and Regression
12-13	Correlation and Regression- Numerical problems
1-14	*Unit 5: Sampling*
1-2	Basic concepts- complete enumeration vs. sample survey, steps in sample survey
3-4	Methods of sampling- simple random sampling (SRSWR, SRSWOR)
5	Stratified sampling

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6	Multi-stage sampling
7-8	Sampling distribution of sample mean and variance
9-10	Mean & standard error in SRSWOR, SRSWR
11-12	Standard normal, Student's t distribution
13-14	Chi-square and F distribution

NAME OF FACULTY : SHREYASEE DATTA

PAPER :   **SEC A1**- Introductory Methods of Field Survey (General)

LECTURES ALLOTED: 15

ALLOTED SYLLABUS: Unit 2

TOPIC/SUBTOPIC:	Unit 2- Methodologies of Collection of data
LEC. NO.	PROPOSED TOPIC(S) TO BE TAUGHT
1-2	Complete enumeration vs. sample survey, Advantages of sample survey
3	Sampling and Non-sampling errors
4-5	Sampling techniques- simple random sampling- with and without replacement
6	Stratified random sampling
7	Circular sampling
8	Sampling proportional to size
9-10	Practical methods of drawing random sample using random no. table
11	Prerequisites for field survey- preparation of blank table
12	Preparation of questionnaire according to the nature of survey
13-15	Preparation of questionnaire- example

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TEACHING PLAN FOR SEMESTER- 5

NAME OF FACULTY : SHREYASEE DATTA

PAPER :   **DSE A1**- Applied Econometrics

LECTURES ALLOTED: 25 (theory)+ 15 (Practical)

ALLOTED SYLLABUS: Unit 3- Application in Regression Analysis

TOPIC/SUBTOPIC:	Unit 3- (Theory)
LEC. NO.	**PROPOSED TOPIC(S) TO BE TAUGHT**
1-2	Basic idea of different types of regression- cross-section, time-series, panel data
3-4	Cross-section analysis- linear regression model with two regressors- applications
5-6	Time series data- basic idea, nature of time series data, components of time series
7-8	Concept of stationarity in time-series, importance of stationarity, different types of stationarity
9-10	Concepts of non-stationary data, random walk model
11-12	Different types of trends, estimating linear trend
13-14	Detrending, de-seasonalization, regression with time trend
15-16	Basic idea of panel data, structure of panel data, different types of panel data
17-18	Difference between pooled and panel data- statistical test
19	Random effects model- basic idea
20	Different methods of estimating a random effects model
21	Fixed Effects model- basic idea
22	Different methods of estimating a fixed effects model
23-24	Within and Between Estimation in panel data
25	Comparison between Fixed and Random effects model- Applications
TOPIC/SUBTOPIC: Practical (Unit 3)	

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1-2	Opening and saving a data file, log- file and do file, Basic commands in STATA
3	Basic commands in STATA, Two variable regression
4	Some commands in STATA, Idea of Time-series data
5-6	Testing stationarity, Regression with time-trend, de-trending a trend data
7	adding seasonal dummy, de-seasonalization
8-9	Calculating of lead-lag values, growth rates, Durbin-Watson test for checking autocorrelation
10-11	Idea of panel data- arranging a panel data
12	Test for pooled vs panel data
13	Fitting a Random effects model in panel data
14-15	Fitting a Fixed effects model in panel data, Hausman test

NAME OF FACULTY : SHREYASEE DATTA

PAPER :   **DSE B2**- Financial Economics

LECTURES ALLOTED: 75

ALLOTED SYLLABUS: Unit 1-3 (Full syllabus)

TOPIC/SUBTOPIC:	
LEC. NO.	PROPOSED TOPIC(S) TO BE TAUGHT
1-35	*Unit 1- Investment Theory and Portfolio Analysis*
1-2	Deterministic Cash Flow streams- discounting and present value, Evaluation criteria, IRR, Fixed income securities,
3-4	Concept of annuity & perpetuity, Numerical problems on interest rate theory
5-7	Bond- some important concepts (Face value, coupon rate, yield, YTM), different types of bonds
8-9	Bond prices and yields, price-yield curve- different combinations

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10	Interest rate sensitivity, duration
11	The term-structure of interest rates, yield curves
12	Spot rates and forward rates
13	Numerical problems- bonds, spot-forward relations
14-15	Theories of term structure of interest rate
16	Single- period random cash flows- random asset returns
17-18	Portfolio of assets- Portfolio Mean and variance
19-20	Mean-Variance portfolio analysis
21-22	The Markowitz Model
23-24	The Two-fund theorem
25-26	Risk-free assets and the One-fund theorem
27-28	CAPM- the Capital Market Line
29	Beta of an asset and of a portfolio
30-31	Security Market Line, use of CAPM in investment analysis
32-33	Sharpe & Jensen's measure, CAPM as pricing formula
34-35	Numerical exercise- Portfolio theory, CAPM
1-20	***Unit 2- Options & Derivatives***
1-2	Basic concepts of different derivatives, role of derivatives
3-4	Forward contract- introduction & other concepts, forward prices
5-6	Futures- stock index futures, interest rate futures
7	Comparison between forwards and futures
8	Use of futures for hedging
9-10	Options- Call and put options- comparison
11-12	Factors affecting options prices, Put-Call parity
13-15	Different trading strategies with options

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16	Valuation of options- different methods
17-18	Binomial tree model (including numerical exercise)
19-20	Risk-neutral valuation (including numerical exercise)
1-20	*Unit 3- Corporate Finance*
1-3	Sources of finance for a company- concept of debt & equity, different types of stocks, other financial instruments
4-5	Basic idea of financial statement analysis
6-7	Concepts of ratio analysis
8-9	Various methods of equity valuation/ calculating cost of equity capital
10-11	Concept of cost of capital, Weighted average cost of capital
12-13	Corporate debt & dividend policy, pay-out policy
14	Concept of financial leverage
15	Modigliani-Miller theorem- proposition 1
16-17	Modigliani-Miller theorem- proposition 2
18-19	Modigliani miller under tax
20	Post tax weighted average cost of capital

NAME OF FACULTY : SHREYASEE DATTA

PAPER :   **DSE** Money and Banking (General)

LECTURES ALLOTED: 16

ALLOTED SYLLABUS: Unit 4

TOPIC/SUBTOPIC:	Unit 4- Central Banking & Monetary Policy
LEC. NO.	PROPOSED TOPIC(S) TO BE TAUGHT
1-3	Introduction, targets of monetary policy in a country
4-6	Concepts of different tools of monetary policy- quantitative vs. qualitative instruments
7-9	Concepts of SLR, CRR, repo rate as instruments of monetary policy

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10-11	Current monetary policy of India
12-13	Demonetization & its impact on the Indian economy
14-16	Monetary management in open economy- concept, current scenario

NAME OF FACULTY : SHREYASEE DATTA

PAPER :   **SEC A1**- Introductory Methods of Field Survey (General)

LECTURES ALLOTED: 15

ALLOTED SYLLABUS: Unit 2

TOPIC/SUBTOPIC:	Unit 2- Methodologies of Collection of data
LEC. NO.	PROPOSED TOPIC(S) TO BE TAUGHT
1-2	Complete enumeration vs. sample survey, Advantages of sample survey
3	Sampling and Non-sampling errors
4-5	Sampling techniques- simple random sampling- with and without replacement
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