Sacred Heart College (Autonomous)

Department of Economics

MA ECONOMICS

Course plan

Academic Year: 2015 - 16

Semester II

PROGRAMME	MASTER OF ECONOMICS	SEMESTER	2
COURSE CODE AND TITLE	P2ECOT06 : MICROECONOMIC THEORY- II	CREDIT	4
HOURS/WEEK	5	HOURS/SEM	90
FACULTY NAME	Dr. Madhusudhanan Nair		

COURSE OBJECTIVES
To develop skill in formulating business strategy in the context of market imperfections
To understand the basic theory of distribution and the source of income generation
To understand the use of game theory of models in decision making
To understand the different managerial theories of the firm
To analyse the impact of micro decisions on macro instability
To develop skill in applying compensation principle under situations where a proposed change causes damage to someone but gains to others

SESSION	TOPIC	LEARNING RESOURCES	VALUE ADDITIONS	REMARKS
MODULE I				
1	Evaluates alternative welfare criteria	PPT/ Lecture	video	
2	Oligopoly- features- real world situations	PPT/Lecture		
3	Non collusive Oligopoly	PPT/Lecture	video	
4	Collusive Oligopoly	PPT/Lecture	e-resource	
5	Cournot model	PPT/Lecture		
6	Cournot model- behaviour pattern	PPT/Lecture		
7	Cournot model- equilibrium	Lecture		
8	Bertrand Model vs Cournot model	Lecture		
9	Bertrand model-ctd	Lecture		
10	Bertrand model -equilibrium	Lecture		
11	Chamberlin- model	Lecture		
12	Chamberlin- model	PPT/Lecture		
13	Chamberlin- model Cont.	PPT/Lecture		
14	Kinky demand model	PPT/Lecture		
15	Kinky model – and demand functions	PPT/Lecture		
16	Kinky model & price rigidity	PPT	e-resource	
17	Cartels	PPT	e-resource	
18	Cartels-types	PPT/Lecture		
19	Mergers	Lecture	video	
20	Price leadership types	Lecture	video	
21	CIA			
22	Price leadership- barometric			
23	Dominant firm price leadership			

24	Low cost firm price leadership	PPT/Lecture		
25	Game theory introduction	PPT/Lecture	Role play	
26	2 person zero sum game	PPT /Lecture	Role play	
27	Non zero sum game			
28	Nash equilibrium			
29	Prisoners dilemma	PPT /Lecture	Video	
30	Dominant strategy	PPT /Lecture		
31	Minimax maximin mixed strategies	Lecture		
32	Saddle point	PPT/Lecture		
33	Coop Vs Non coop games	PPT/Lecture	e- resource	
MODULE II				
34	Hall and Hitch report	Lecture		
35	Critique of marginal analysis	Lecture		
36	Full cost pricing	Lecture		
37	Models of full cost pricing	Lecture		
38	Objectives of the firm	Lecture		
39	Sales revenue maximisation	Lecture	Group Discussion	
40	Sales revenue maximization(cont.)			
41	Sales revenue maximization(cont.)			
42	Marris model			
43	Marris model (Cont.)			
44	Wlliamson model	PPT/Lecture		
45	Behavioral model	PPT/Lecture		
46	Satisficing behavior	PPT/Lecture		
47	Firm as a coalition- conflict resolution	PPT/Lecture		
48	Bains model- LP	Lecture	Quiz	
MODULE III				
49	Theories of distribution	Lecture		
50	Marginal productivity theory	Lecture	Q & Ans Session	
51	Marginal productivity theory Cont.	Lecture	Q & Ans Session	
52	Eulers theorem	PPT/Lecture		
53	Input substitution elasticity	PPT/Lecture		
54	Technical progress and factor shares	PPT/Lecture	Demo video	
55	Ricardian theory of distribution	PPT/Lecture		
56	Marxian theory of distribution	PPT/Lecture		
57	Kalecki on distribution	PPT/Lecture		
58	Kaldor- distribution theory	Lecture		
59	Monopoly power & distribution	PPT/Lecture		
MODULE IV				
60	Partial vs general equilibrium	PPT/Lecture		
61	General equilibrium model	PPT/Lecture		
62	General equilibrium model	PPT/Lecture		
63	General equilibrium model			
64	Existence of equilibrium			
65	Uniqueness and stability	PPT/Lecture		
66	Evaluation of General equilibrium model			
67	Welfare economics			

68	Importance of welfare economics		Video	
69	Pareto welfare criterion	PPT/Lecture		
70	CIA II			
71				
72				
73				
74				
75	Contract curve of exchange	PPT/Lecture		
76	Conditions for maximum welfare	PPT/Lecture		
77	New welfare economics	PPT/Lecture	Video	
78	Kaldor- compensation criterion	PPT/Lecture		
79	Kaldor- compensation criterion	PPT/Lecture		
80	Hicksian compensation criterion	PPT/Lecture		
81	Scitovsky criterion	PPT/Lecture		
82	Bergson-Samuelson SWF	Lecture		
83	Theory of second best	Lecture		
84	Impossibility theorem	Lecture		
85	Sen's theory welfare	PPT/Lecture	Group Discussion	
86	Rawls Theory of Justice	PPT/Lecture		
87	revision			
88	revision			
89	revision			
90	revision			

References

- Koutsoyiannis A. (1979), Microeconomic Theory (2nd edition), Macmillan, London (Chapter 2, 3, 4)
- 2. Hal R.Varian- Intermediate microeconomics – A Modern Approach, East-West Press Pvt.Ltd, New Delhi, 2010
- 3. Pindyck and Rubinfeld(2006) Microeconomics, Prentice Hall of India Ltd, New Delhi, (Chapter 4,5,7)

Web resource references:
- **https://www.thoughtco.com/online-microeconomics-textbook-1147732**

COURSE PLAN

PROGRAMME	MASTER OF ECONOMICS	SEMESTER	2
COURSE CODE AND TITLE	P2ECOT07: ADVANCED MACRO ECONOMIC THEORY AND POLICY	CREDIT	4
HOURS/WEEK	5	HOURS/SEM	90
FACULTY NAME	Dr. K V Raju		

COURSE OBJECTIVES
To compare Classical and Keynesian Approaches to Inflation and Understands the Phillips Curve
To analyse modern developments in classical macroeconomics.
To analyse modern developments in new classical macro economics
To develop an understanding about dynamically stochastic general equilibrium model
To analyse the modern developments in Keynesian school
To evaluate the policy implications of post Keynesian theories

SESSION	TOPIC	LEARNING RESOURCES	VALUE ADDITIONS	REMARKS
	MODULE I			
1	Introduction to concept of inflation	PPT/Lecture		
2	Classical approach to inflation	PPT/Lecture		
3	Keynesian approach to inflation	PPT/Lecture		
4	Monetarist approach to inflation	PPT/Lecture		
5	Structuralist theory of inflation	Lecture/discussion		
6	Inflation targetting	PPT/Lecture		
7	Phillips Curve	Lecture		
8	Short run Phillips Curve	Lecture/discussion		
9	Long run Phillips Curve	Lecture		
10	The Natural Rate of Unemployment	Lecture/discussion		
11	Adaptive Expectation Hypothesis	PPT/Lecture		
12	Augmented Phillips Curve	PPT/Lecture		
13	Tobin's Modified Phillips Curve	PPT/Lecture		
14	NAIRU	PPT/Lecture		
15	Cost of Inflation	PPT/Lecture		
16	Anti-inflationary Measures.	PPT/Lecture		
17	Discussion- Anti inflationary measures	PPT/Lecture		
18	Revision	PPT/Lecture		
19	Revision	PPT/Lecture		
20	Revision	PPT/Lecture		
	MODULE II			
21	Introduction to classical school	PPT/Lecture		

22	Modern developments in Macro economics	PPT/Lecture		
23	The New Classical Macroeonomics	PPT/Lecture		
24	Monetarism	PPT/Lecture		
25	Monetarist-Fiscalist debate on Policy Activism	PPT/Lecture		
26	Monetarist-Fiscalist debate on Policy Activism	PPT/Lecture		
27	Cold Turkey vs Gradualism	PPT/Lecture		
28	Taylor's Rule .	PPT/Lecture		
29	Revision	Disussion		
30	Revision	Disussion		
MODULE III				
31	New Classical Macroeconomics	PPT/Lecture		
32	New classical economics- discussion	PPT/Lecture		
33	Rational Expectations Hypothesis	PPT/Lecture		
34	Rational Expectations Hypothesis	PPT/Lecture		
35	Monetary surprise model	PPT/Lecture		
36	Inter-temporal substitution model	PPT/Lecture		
37	Inter-temporal substitution model	PPT/Lecture		
38	Ineffectiveness proposition	PPT/Lecture		
39	Lucas critique.	PPT/Lecture		
40	Supply Side Economics	PPT/Lecture		
41	Supply Side Economics	PPT/Lecture		
42	Supply Shocks and Stagflation	PPT/Lecture		
43	Wedge Model	PPT/Lecture		
44	Laffer Curve	PPT/Lecture		
45	Policy Implications.	PPT/Lecture		
46	Real Business Cycle Theory.	PPT/Lecture		
47	Real Business Cycle Theory.	PPT/Lecture		
48	The Dynamically Stochastic General Equilibrium model.	PPT/Lecture		
49	The Dynamically Stochastic General Equilibrium model.	PPT/Lecture		
50	Revision			
51	Revision			
52	Seminar			
53	Seminar			
54	Seminar			
55	Seminar			
MODULE IV				
56	Introduction to Keynesian school	PPT/Lecture		
57	Neo-Keynesianism	PPT/Lecture		
58	Disequilibrium Models-Introduction	PPT/Lecture		
59	R. W. Clower and Leijonhufvud	PPT/Lecture		
60	R. W. Clower and Leijonhufvud	PPT/Lecture		
61	R. W. Clower and Leijonhufvud	PPT/Lecture		
62	Dual Decision Hypothesis	PPT/Lecture		
63	Dual Decision Hypothesis	PPT/Lecture		
64	Quantity Constrained Model of Malinvaud and Barro	PPT/Lecture		

65	Quantity Constrained Model of Malinvaud and Barro	PPT/Lecture			
66	Co-Ordination Failure.	PPT/Lecture			
67	Fundamental arguments of Post – Keynesians	PPT/Lecture			
68	Kalecki's Pricing Model	PPT/Lecture			
69	Kalecki's Pricing Model	PPT/Lecture			
70	Financial Instability model ofHymn Minsky.	PPT/Lecture			
71	Financial Instability model ofHymn Minsky.	PPT/Lecture			
72	Financial Instability model ofHymn Minsky.	PPT/Lecture			
73	Financial Instability model ofHymn Minsky.	PPT/Lecture			
74	New Keynesian Macroeconomics	PPT/Lecture			
75	New Keynesian Macroeconomics	PPT/Lecture			
76	Nominal Rigidities	PPT/Lecture			
77	Real Rigidities	PPT/Lecture			
78	Sticky Price(Menu Cost) Model	PPT/Lecture			
79	Efficiency Wage Hypothesis	PPT/Lecture			
80	Insider-outsider Model	PPT/Lecture			
81	Hysteresis	PPT/Lecture			
82	Policy Implications	PPT/Lecture			
83	Policy Implications	PPT/Lecture			
84	Revision	Disussion			
85	Revision	Disussion			
86	Seminar				
87	Seminar				
88	Seminar				
89	Seminar				
90	Seminar				

REFERENCES:-
1. Gregory Mankiw, N (2010): Macroeconomics, 7th Ed, Worth Publishers, Dufield, U.K.
2. Kamran Dadkhah (2010): The Evolution of Macroeconomic Theory and Policy, Springer, London.
3. Rudiger Dornbusch, Stanley Fisher and Richard Startz (2007) 7th Ed: Macroeconomics, TMH, New Delhi
4. Rosalind Levacic and Alexander Rebmann (2006): Macroeconomics: An Introduction to Keynesian-Neoclassical Controversies, MacMillan, New York.
5. Richard T. Froyen (2008) L: Macroeconomics-Theories and Policies, Pearson, Singapore.
6. Garner Ackley (1989): Macroeconomics: Theory and Policy,Collier MacMillan, New York.
7. A.J. Westaway and T.G.Weyman Johnes (1978): Macroeconomics, Theory, Evidence and Policy, Longman, New York.
8. Andrew B. Abel and Ben S. Bernanke (2010): Macroeconomics 4th Ed. Pearson, Singapore.
9. Olivier Blanchard (2011): Macroeconomics 4th Ed-Pearson, Singapore.
10. Errol D'Souza (2008): Macroeconomics, Pearson, Singapore.
11. Lefteris Tsoulfidis : (2010), Competing Schools of Economic Thought, Springer, London.

12. BrianSnowdon and Howard R.Vane (*Ed)* (2003): A Macroeconomics Reader, Routledge, London.

13. Brian Snowdon, Howard Vane and Peter Wynarczyk (2002): A Modern Guide to Macroeconomics: An Introduction to Competing Schools of Thought, Aldershot, England.

15. James K. Galbrith and William Darity,Jr (1994): Macroeconomics-Houghton , Boston, USA.

16. Ben J. Heijdra Frederick van der Ploeg *(2002):* Macroeconomics OUP, London.

17. Rosalind Levacic and Alexander Rebmann (2006): Macroeconomics: An Introduction to Keynesian-Neoclassical Controversies, MacMillan, New York.

18. Garner Ackley (1989): Macroeconomics: Theory and Policy, Collier MacMillan, New York.

19. A.J. Westaway and T.G.Weyman Johnes (1978): Macroeconomics, Theory, Evidence and Policy, Longman

20. Ben J. Heijdra Frederick van der Ploeg *(2002):* Macroeconomics, OUP, London..

21.Ott, D.J, Ott, A.E and Yoo J.H (1975): Macroeconomic theor, Mc GrawHill, New York.

22. M.J.C. Surrey (1976): Macroeconomic Themes, Wiley Eastern, Singa

PROGRAMME	MASTER OF ARTS - ECONOMICS	SEMESTER	2
COURSE CODE AND TITLE	P2ECOT08 – INDIAN ECONOMY: ISSUES AND POLICIES – II	CREDIT	4
HOURS/WEEK	5	HOURS/SEM	90
FACULTY NAME	Siby Abraham		

COURSE OBJECTIVES
To understand the basic characteristics of Indian economy and analyze its problems and prospects.
To understand the nature of demographic profile, the causes and the effect of population growth and its distribution in India.
To understand the labour market trends and evaluate the employment scenario in the country.
To analyze the magnitude of poverty and inequality in India and the poverty alleviation measures in the country.
To develop knowledge of India's fiscal and financial sector reforms and evaluate the structure and direction of India's foreign trade.
To analyse the characteristics, structural changes, emerging trends and issues of Kerala Economy.

SESSION	TOPIC	LEARNING RESOURCES	VALUE ADDITIONS	REMARKS
MODULE I				
1	India's demographic profile	PPT		
2	Population growth pattern and implications	PPT/Lecture	Quiz	
1	Demographic dividend	PPT/Lecture		
2	Rural urban migration	PPT/Lecture		
1	*Population policies*	PPT/Lecture		
2	Trends in employment	PPT/Lecture		
2	Unemployment, Nature and Policies	Lecture	Video	
1	Recent employment guarantee programs	Lecture		
1	Changing Nature of Labour Market, Reforms	Lecture		
1	Minimum wages act	PPT/Lecture		
1	Cooperative movement in India	Lecture		
1	Revision	Q&A		
1	Question paper discussion			
3	Seminar sessions			
MODULE II				
2	Social aspects: recent trends. Implications and policies	PPT/Lecture		
1	Poverty: meaning & concepts	Lecture		
2	Inequality: meaning, measurement of inequality	Lecture		
2	Regional imbalances	Lecture		
1	IAT - 1	PPT/Lecture	Video	

2	Migration, child labour	PPT/Lecture		
2	Gender, caste, governance, corruption	PPT/Lecture		
2	Environment, natural resources	PPT/Lecture		
2	Adivasis, Rights to Forests	Lecture		
1	Issues in competition and safety nets.	Lecture		
1	Revision	PPT		
2	Seminar session	PPT		
MODULE III				
1	Fiscal deficit, trend and significance	PPT/Lecture		
2	Fiscal policy, critical appraisal	PPT/Lecture		
2	Parallel economy	PPT/Lecture	Quiz	
1	Indian Financial system	Lecture		
2	Role of RBI	Lecture		
2	Banking and insurance	PPT/Lecture	Video	
2	Capital Market	PPT/Lecture		
1	Monetary & Fin. Sector Reforms: critical appraisal	Lecture		
1	Financial inclusion	Lecture		
2	Analysis of Price behaviour, Inflationary Trends	PPT/Lecture		
1	Petroleum product pricing	Lecture		
2	Structure and direction of India's foreign trade	Lecture		
1	Export-import policy	Lecture		
1	Introduction of FEMA	PPT/Lecture		
1	Post '90 trends in India's Balance of Payments	PPT/Lecture		
1	Trends in exchange rates, policies	PPT/Lecture		
2	MNCs in India	Lecture		
1	Revision	PPT/Lecture		
2	IAT – II			
2	Seminar sessions			
MODULE - IV				
1	Kerala economy: growth & structure	Lecture		
2	Globalization (WTO, ASEAN) & Kerala's Agriculture	PPT		
1	Industrial Backwardness- Hypotheses - Policies	Lecture	Video	
2	Service sector, sources of growth	Lecture		
1	Construction, Tourism, energy	PPT/Lecture		
1	Trade & Transport	PPT/Lecture		
1	Information Technology in Kerala	Lecture		
1	Migration: Dimension, Impact	PPT/Lecture		
1	HR Development: Issues & policies	Lecture		
1	Unemployment: Trend, causes, remedial measures	PPT/Lecture		
1	Environment degradation	Lecture		
2	Fiscal crisis in Kerala	Lecture		
1	Migrant labourers	Lecture		
1	Kerala in a globalized environment	PPT/Lecture	Quiz	
2	Seminar session			
1	Revision			

Total = 90 sessions				

References

1. Mahendra K Premi (2009), India's Changing Population Profile, National Book Trust, New Delhi

2. Jagdish N. Bhagwati, Arvind Panagariya, (2013) Why Growth Matters: How Economic Growth in India Reduced Poverty and the Lessons for Other Developing Countries, Public Affairs, New Delhi.

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14. M. A. Oommen (2008) Reforms and the Kerala Model, Economic and Political Weekly, Vol. 43, No. 2 (Jan. 12 - 18, 2008).

COURSE PLAN

PROGRAMME	**MA ECONOMICS**		SEMESTER	2
COURSE CODE AND TITLE	**P2ECOT09: ECONOMICS OF DEVELOPMENT AND GROWTH- II**		CREDIT	4
HOURS/WEEK	5		HOURS/SEM	90
FACULTY NAME	VINIL K V, SIBY ABRAHAM			

COURSE OBJECTIVES

To evaluate theories of growth and development

To examine the role of international trade on economic development across countries

To develop knowledge regarding effective resource allocation to facilitate economic growth

To analyse the factors which ensure environmental sustainability along with growth

SESSION	TOPIC	LEARNING RESOURCES	VALUE ADDITIONS	REMARKS
Module I				
1	Balanced Growth	Lecture	Online resource	
2	Unbalanced Growth	PPT/Lecture	Research article	
3-4	Lewis model of unlimited supply of labour	PPT/Lecture		
5-6	Fei-Ranis Model	Lecture		
7	Introduction to Migration	PPT/Lecture	Online resource	
8-9	Todaro & Harris-Todaro Models	Lecture	Research article	
10	Choice of technique- Intermediate technology	Lecture	Research article	
11	Embodied and disembodied technological change	Lecture	Research article	
12-13	Capital output ratio.	Lecture	Research article	
Module II				
14-15	Golden age growth model of Joan Robinson	Lecture		
16-17	Growth Model of Kaldor	PPT/Lecture		
18-19	Harrod- Domar Growth Model	PPT/Lecture	Online resource	
20-21	Solow Model of Growth	PPT/Lecture	Research article	
22-23	New Endogenous Growth Theory	PPT/Lecture	Research article	
24-25	Macroeconomic Determinants of Growth	Lecture	Research article	
26	Mechanisms of catch up.	Lecture	Research article	

27	CIA I			
Module III				
28-29	Trade and development	Lecture	Online resource	
30-31	Trade liberalization	Lecture	Research article	
32-33	Exports and growth	Lecture	Online resource	
34	Prebisch-Singer theses	Lecture	Research article	
35-37	Neo Classical supply side model	Lecture	Research article	
38-40	BOP constrained growth model	Lecture	Research article	
41-43	Virtuous circle model	Lecture	Research article	
44-45	Trade liberalization and poverty reduction	Lecture	Research article	
46-47	WTO and developing countries	Lecture	Research article	
Module IV				
48-50	Cost- benefits analysis	Lecture		
51-52	Shadow prices	Lecture	Research article	
53-54	Monetary policies in economic development	Lecture	Online resource	
55-57	Fiscal policies in economic development	Lecture	Online resource	
58-60	Uses of input-output analysis in planning	Lecture	Online resource	
61-63	Uses linear programming in development	Lecture	Online resource	
64	CIA II			
65-72	Seminars			
73 – 90	Revision			

References
1. Ray Debraj : Development Economics, Oxford, University Press 1999
2. Meier M. Gerald and Rauch: Leading issues in Economic Development Oxford University Press.(2000)
3. Thirlwall. A: Growth and Development with special Reference to developing economies Palgrave Macmillan (2009)
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COURSE PLAN

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PROGRAMME	MA ECONOMICS	SEMESTER	2
COURSE CODE AND TITLE	P2ECOT10 - STATISTICAL TOOLS FOR ECONOMIC ANALYSIS	CREDIT	3
HOURS/WEEK	5	HOURS/SEM	90
FACULTY NAME	Lakshmipriya R		

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COURSE OBJECTIVES

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To understand the concepts of Probability, Random variables- Discrete and continuous types, probability distribution functions and its properties

To understand Mathematical Expectation, moments. Standard distributions –binomial, Poisson, normal and lognormal distributions

To understand and apply Central limit theorem

To understand Population and Sampling, Determination of sample size, Sampling distributions - Statistic, sampling distributions of sample mean

To know the applications of Sampling distributions –Chi square, t and F distributions

To understand Estimation - point and interval estimation. Method of Estimation, Maximum Likelihood Estimation and Method of moments. Confidence interval for the mean of a population using small and large samples.

To understand null and alternative hypotheses, simple and composite hypotheses, one tailed and two tailed tests.

To know the applications of parametric and non-parametric tests

SESSION	TOPIC	LEARNING RESOURCES	VALUE ADDITIONS	REMARKS
1	Bridge course (1)	PPT	video	
2	Introduction to probability	PPT/Lecture		
3	Understand the concepts of Probability	PPT/Lecture		
4	Random variables- Discrete and continuous types	PPT/Lecture	e-resource	
5	probability distribution functions and its properties	PPT/Lecture		
6	problems on probability	PPT/Lecture		
7	properties of probability	Lecture		
8	Understand Mathematical Expectation	Lecture		
9	Mathematical expectation problems	Lecture		

10	Moments and properties.	Lecture		
11	Standard distributions	PPT/Lecture		
12	Binomial distribution	PPT/Lecture		
13	problems on Binomial distribution	PPT/Lecture		
14	problems on Binomial distribution			
15	Poission Distribution	PPT/Lecture		
16	Problems on poission Distribution	Lecture		
17	Problems on poission Distribution	Lecture		
18	Normal distribution	Lecture		
19	Properties of Normal distribution	Lecture		
20	problems on Normal distribution	Lecture		
21	problems on Normal distribution	Lecture		
22	problems on Normal distribution	Lecture		
23	Normal distribution extra questions	Lecture		
24	lognormal distribution	Lecture		
25	properties of lognormal distribution	Lecture		
26	problems on lognormal distribution			
27	Understand and apply Central limit theorem	Lecture		
28	Problems	Lecture		
29	Understand Population and Sampling	PPT/Lecture		
30	Determination of sample size and sampling distribution	PPT/Lecture		
31	Sampling distribution	PPT/Lecture		
32	understanding Statistic			
33	Sampling distribution of sample mean	Lecture		
34	Applications of sampling distribution	Lecture		
35	Problems	Lecture		
36	Chi square distribution	Lecture	Quiz	
37	problems on chi square distribution	Lecture	Q & Ans Session	
38	students t distribution	Lecture		
39	problems on students t distribution	Lecture		
40	F Distribution	Lecture		
41	properties of F distribution	Lecture		
42	problems on F distribution	Lecture		
43	Understands Estimation	Lecture		
44	point estimation	Lecture		
45	Interval estimation	Lecture		
46	Method of Estimation,	Lecture		
47	Maximum likelihood estimation	Lecture		
48	problems on Maximum likelihood estimation	Lecture		
49	Method of moments	Lecture		
50	problems on method of moments	Lecture		

51	Confidence interval for the mean of a population using small and large samples.	Lecture		
52	Understand null and alternative hypotheses	PPT/Lecture	Video	
53	simple and composite hypotheses	PPT/Lecture		
54	one tailed and two tailed tests.	PPT/Lecture		
55	Type I and Type II errors			
56	problems on test of hypothesis	Lecture	Debate	
57	Critical and acceptance regions of a test	PPT/Lecture		
58	significance level and power of a test	PPT/Lecture		
59	extra problems	PPT/Lecture		
60	Testing the mean of a population	PPT/Lecture		
61	large sample tests	PPT/Lecture		
62	small sample tests	PPT/Lecture		
63	problems on small sample test	Lecture		
64	Testing the difference between two means of independent and paired samples	Lecture		
65	problems on testing	Lecture		
66	testing the proportion of a population	Lecture		
67	Chi-square test of independence	Lecture		
68	Non parametric tests, Sign test,	Lecture		
69	run test, Fisher –Irwin test, Mann – Whitney test,	Lecture		
70	Kendall's Coefficient of Concordance and Kruskal-Wallis test.	Lecture		
71	Applications of non parametric tests	Lecture		
72-90	Revision			

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