



Integral University, Lucknow

Effective from Session: 2019-20

Course Code	HE206	Title of the Course	Money and Banking-II	L	T	P	C
Year	II nd	Semester	IV th	5	1	0	6
Pre-Requisite	Intermediate	Co-requisite	None				
Course Objectives	This course exposes students to the theory and functioning of the monetary and financial sectors of the economy. It highlights the organization, structure, and role of financial markets and institutions. It also discusses interest rates, monetary management, and instruments of monetary control. Financial and banking sector reforms and monetary policy with special reference to India are also covered.						

Course Outcomes

CO1	Students will be able to understand the measurement of money and theories of money supply determination.
CO2	Students will be able to understand money and capital markets.
CO3	Students will be able to understand the latest trends in the banking sector
CO4	Students will be able to understand the role and structure of the Banking System in India.
CO5	Students will be able to Monetary Policy in India.

Unit No.	Title of the Unit	Content of Unit	Contact Hrs.	Mapped CO
1	Money	Money Measurement; Theories of money supply determination.	18	CO1
2	Money And Capital Markets	Organization, structure, and reforms in India; the role of financial derivatives and other innovations.	18	CO2
3	Latest Trends In Banking Sector	Latest Trends in Banking Sector, Comparison of India with other developed countries.	18	CO3
4	Banking System	Indian banking system: Changing role and structure; banking sector reforms.	18	CO4
5	Monetary Policy	Functions, balance sheet; goals, targets, indicators, and instruments of monetary control; monetary management in an open economy; current monetary policy of India.	18	CO5

Reference Books:

- F. S. Mishkin and S. G. Eakins, Financial Markets and Institutions, Pearson Education, 6th edition, 2009.
- F. J. Fabozzi, F. Modigliani, F. J. Jones, M. G. Ferri, Foundations of Financial Markets and Institutions, Pearson Education, 3rd edition, 2009.
- L. M. Bhole and J. Mahukud, Financial Institutions, and Markets, Tata McGraw Hill, 5th edition, 2011.
- M. Y. Khan, Indian Financial System, Tata McGraw Hill, 7th edition, 2011.
- Various latest issues of R.B.I. Bulletins, Annual Reports, Reports on Currency and Finance, Reports of the Working Group, and IMF Staff Papers.

e-Learning Source:

<http://www.ignouhelp.in/ignou-study-material/>

1- Low Correlation; 2- Moderate Correlation; 3- Substantial Correlation

Course Articulation Matrix: (Mapping of COs with POs and PSOs)

PO-PSO CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PSO1	PSO2	PSO3	PSO4
CO1	3	1	2	1	1	2	2	1	3	2	2
CO2	2	2	1	2	2	1	1	2	2	2	2
CO3	3	2	1	3	1	2	2	1	3	1	1
CO4	3	2	2	2	2	1	1	2	2	2	2
CO5	2	1	2	3	1	1	1	1	3	1	2

Sohrab Ansari
Dr. Sohrab Ansari
Name & Sign of Program Coordinator

Zeba Agil
Sign & Seal of HoD
Humanities & Social Science
Integral University, Lucknow



Integral University, Lucknow

Effective from Session: 2019-20							
Course Code	HE207	Title of the Course	Public Finance – 2	L	T	P	C
Year	II nd	Semester	IV th	5	1	0	6
Pre-Requisite	Intermediate	Co-requisite	None				
Course Objectives	Students will be able to understand the concept of public finance and prepare them to face the emerging challenges of financial resources and learn how to handle public debts.						

Course Outcomes

CO1	To equip the students with basic concepts and various instruments of fiscal policy.
CO2	To understand federal finance and evaluate the role of the finance commission in the distribution and allocation of recourse.
CO3	To understand and evaluate the financial issues of India and the role of the finance commission to resolve it.
CO4	Comprehend about state and local financial system of India.
CO5	To develop an understanding of the preparation and execution of the Union Budget in India.

Unit No.	Title of the Unit	Content of Unit	Contact Hrs.	Mapped CO
1	Fiscal Policy	Objectives and instruments of Fiscal Policy, Role of Fiscal Policy in under-developed countries, Indian Federal finance:- financial relations between Central Government, State Government, and local bodies.	18	CO1
2	Federal Finance	Financial Issues in a Federal set up. Principles of an efficient division of financial resources between Central and States.	18	CO2
3	Finance Commissions	Finance Commissions and their recommendations on Fiscal Policy for the last 20 years. Highlight the main points.	18	CO3
4	State And Local Finances	Local and state bodies, their financial responsibilities, and Sources of local finance. Heads of revenues and items of expenditures, Analysis of trends in Central Government's revenues.	18	CO4
5	Indian Budget	Classification of Budgets, Budget and Planning, Budget and National Accounts Indian Budget- Its preparation, legislation, and execution	18	CO5

Reference Books:

Dalton, H – Principles of Public Finance.

Mehta and Agarwal – Public Finance.

Sarkar and Misra – Rajasva Shastra.

Bhargava – Public Finance in theory and practice.

Saxena and Mathur – Public Finance.

e-Learning Source:

https://onlinecourses.nptel.ac.in/noc23_mg46/preview

<https://www.edx.org/course/public-financial-management>

Course Articulation Matrix: (Mapping of COs with POs and PSOs)

PO-PSO CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PSO1	PSO2	PSO3	PSO4
CO1	3	2	1	1	1	2	1	2	1	2	2
CO2	3	3	2	1	1	2	2	1	2	2	3
CO3	2	2	3	1	1	3	1	3	2	3	2
CO4	2	2	1	1	1	2	2	1	2	2	3
CO5	2	3	2	2	2	2	2	1	2	2	1

1- Low Correlation; 2- Moderate Correlation; 3- Substantial Correlation

<p>Sohrab Ansari Dr. Sohrab Ansari Name & Sign of Program Coordinator</p>	<p>Zeba Aqil Sign & Seal of HoD</p>
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Head
Humanities & Social Science
Integral University, Lucknow



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Effective from Session: 2019-20

Course Code	MT226	Title of the Course	Introductory Econometrics	L	T	P	C
Year	II nd	Semester	IV th	5	1		6
Pre-Requisite	Intermediate	Co-requisite	None				
Course Objectives	The course objective is to learn the basic concept of Econometrics and how to construct linear regression models and apply these models for future prediction.						

Course Outcomes

CO1	To understand the basic concept of Objective behind building econometric models, the nature of econometrics, and the role of econometrics. General linear econometric model (GLM), Estimation.
CO2	To understand and apply Estimation of the model by method of ordinary least squares; properties of estimators; goodness of fit; tests of hypotheses; scaling and units of measurement; confidence intervals; Gauss-Markov theorem; forecasting.
CO3	To explain and evaluate the Estimation of parameters; properties of OLS estimators; goodness of fit - R ² and adjusted R ² ; partial regression coefficients; the Individual and joint; functional forms of regression models; qualitative (dummy) independent variables.
CO4	To understand and explain the Consequences, Detection, and Remedies; Specific Analysis, Multicollinearity; heteroscedasticity; serial and bi-serial correlation. Omission of a relevant variable; inclusion of irrelevant variable; tests of specification errors.

Unit No.	Title of the Unit	Content of Unit	Contact Hrs.	Mapped CO
1	Introduction	The objective behind building econometric models, the nature of econometrics, and the role of econometrics. General linear econometric model (GLM), Estimation	20	CO1
2	Simple Linear Regression Model:	Estimation of the model by method of ordinary least squares; properties of estimators; goodness of fit; tests of hypotheses; scaling and units of measurement; confidence intervals; Gauss-Markov theorem; forecasting.	22	CO2
3	Multiple Linear Regression Model	Estimation of parameters; properties of OLS estimators; goodness of fit - R ² and adjusted R ² ; partial regression coefficients; Individual and joint; functional forms of regression models; qualitative (dummy) independent variables	24	CO3
4	Violations of Classical Assumptions	Consequences, Detection, and Remedies; Specific Analysis, Multicollinearity; heteroscedasticity; serial and bi-serial correlation. Omission of a relevant variable; inclusion of irrelevant variable; tests of specification errors.	24	CO4

Reference Books:

D. N. Gujarati and D.C. Porter, *Essentials of Econometrics*, McGraw Hill, 4th edition, International Edition, 2009.

Christopher Dougherty, *Introduction to Econometrics*, Oxford University Press, 3rd edition, Indian Edition, 2007.

Jan Kmenta, *Elements of Econometrics*, Indian Reprint, Khosla Publishing House, 2nd edition, 2008.

e-Learning Source:

<https://nptel.ac.in/courses/111/104/111104072/>

PO-PSO CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PSO1	PSO2	PSO3	PSO4
CO1	2	3	2	1	1	2	2	2	1	2	1
CO2	3	3	3	1	1	3	1	1	2	2	1
CO3	2	3	2	1	2	2	1	1	1	1	2
CO4	2	3	2	1	1	2	1	2	1	2	1

1- Low Correlation; 2- Moderate Correlation; 3- Substantial Correlation

<p align="center">Sohrab Ansari Dr. Sohrab Ansari Name & Sign of Program Coordinator</p>	<p align="center"> Sign & Seal of HoD</p>
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Head
Department of Mathematics & Statistics
Integral University, Lucknow



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Course Code	HE208	Title of the Course	Development Theory of Economics	L	T	P	C
Year	II nd	Semester	IV th	2	0	0	2
Pre-Requisite	Intermediate	Co-requisite	None				
Course Objectives	The course objective is to the discussion of alternative conceptions of development and their justification. The axiomatic basis for inequality measurement is used to develop measures of inequality and connections between growth and inequality is explored. The course ends by linking political institutions to growth and inequality by discussing the role of the state in economic development and the informational and incentive problems that affect state governance.						

Course Outcomes	
CO1	To know the concept and characteristics of development Economics.
CO2	To be acquainted with various developmental models of Economics.
CO3	To develop a sense among students regarding connections between inequality and development.
CO4	To develop awareness regarding poverty measurement.
CO5	To get a deep understanding of The determinants of democracy.

Unit No.	Title of the Unit	Content of Unit	Contact Hrs.	Mapped CO
1	Conceptions of Development	Alternative measures of development, documenting the international variation in these measures, comparing development trajectories across nations and within them.	6	CO1
2	Growth Models and Empirics	The Harrod-Domar model, the Solow model and its variants, endogenous growth models, and evidence on the determinants of growth.	6	CO2
3	Inequality	Definitions, Measures, and Mechanisms Inequality axioms; a comparison of commonly used inequality measures; connections between inequality and development;	6	CO3
4	Poverty	Poverty measurement; characteristics of the poor; mechanisms that generate poverty traps and path dependence of growth processes.	6	CO4
5	Political Institutions and the Functioning of the State	The determinants of democracy; alternative institutional trajectories and their relationship with economic performance; within-country differences in the functioning of state institutions; state ownership and regulation; government failures and corruption.	6	CO5

Reference Books:

Debraj Ray, Development Economics, Oxford University Press, 2009.

Abhijit Banerjee, Roland Benabou and Dilip Mookerjee, Understanding Poverty, Oxford University Press, 2006.

Partha Dasgupta, Economics: A Very Short Introduction, Oxford University Press, 2007.

Daron Acemoglu and James Robinson, Economic Origins of Dictatorship and Democracy, Cambridge University Press, 2006.

e-Learning Source:

<https://onlinecourses.nptel.ac.in/preview>

PO-PSO CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PSO1	PSO2	PSO3	PSO4
CO1	3	1	3	1	1	2	2	3	1	2	1
CO2	3	2	3	1	1	3	1	3	2	3	1
CO3	3	1	3	1	2	3	1	3	1	2	1
CO4	3	1	3	1	1	2	1	3	2	3	2
CO5	3	2	3	1	1	3	1	3	1	2	1

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Course Code	HE209	Title of the Course	Political Economy-II	L	T	P	C
Year	II nd	Semester	IV th	2	0	0	2
Pre-Requisite	Intermediate	Co-requisite	None				
Course Objectives	Employing perspectives from alternative schools of thought, this course explores the development of the structure and institutions of capitalist economies and their relationship to social and political forces. Students are expected to read some classic texts as well as more recent commentaries.						

Course Outcomes

CO1	Students will be able to analyse social change in historical perspective
CO2	Students will be able to view capitalism as an evolving economy
CO3	Students will be able to understand the state in capitalism
CO4	Students will be able to realise the social dimension
CO5	Student will be able to understand new perspectives in political economy

Unit No.	Title of the Unit	Content of Unit	Contact Hrs.	Mapped CO
1	Analysing Social Change in Historical Perspective	The method of historical materialism; the transition from feudalism to capitalism; capitalism as a historical process – alternative perspectives.	6	CO1
2	Capitalism as an Evolving Economic System	Basic features; accumulation and crisis; the modern corporation; monopoly capitalism –alternative perspectives	6	CO2
3	The State in Capitalism	The state and the economy – contestation and mutual interdependence; the state as an arena of conflict; imperialism – the basic foundations.	6	CO3
4	The Social Dimension	Globalisation and uneven development – growth, inequality and exclusion.	6	CO4
5	New Perspectives	Gender in work, accumulation and Globalisation; issues in environment and sustainability; alternatives ahead.	6	CO5

Reference Books:

- J. Gurley, "The Materialist Conception of History", Ch.2.1 in R. Edwards, M. Reich and T. Weisskopf (ed.), The Capitalist System, 2nd edition, 1978.
- O. Lange, Political Economy, vol. 1, 1963, Chapters 1 and 2
- E.K. Hunt, History of Economic Thought, M.E. Sharpe, Indian edn, Shilpi Publications, 2004.
- Irfan Habib, 1995, "Capitalism in History", Social Scientist, Vol. 23: 15-31.
- R.L. Heilbroner, "Capitalism", in The New Palgrave Dictionary of Modern Economics, Macmillan, 1987. Also reprinted as Chapter 2 in Behind the Veil of Economics by R.L. Heilbroner, W.W. Norton, 1988.
- P. Sweezy, The Theory of Capitalist Development, Monthly Review Press, 1942

e-Learning Source:

https://onlinecourses.swavam2.ac.in/cec23_hs26/preview

PO-PSO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PSO1	PSO2	PSO3	PSO4
CO											
CO1	3	2	3	2	1	2	3	2	1	1	1
CO2	3	2	3	2	1	2	3	2	1	1	1
CO3	3	1	3	2	1	2	3	2	1	1	1
CO4	3	1	2	2	1	2	3	2	1	1	1
CO5	3	3	2	2	1	2	3	2	1	1	1

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Sohrab Ansari
Dr. Sohrab Ansari
Name & Sign of Program Coordinator

Zeba Anil
Head
Department of Social Science
Integral University, Lucknow



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Course Code	MT227	Title of the Course	Probability Distributions and Test of Significance- II	L	3	T	1	P		C	4
Year	II nd	Semester	IV th								
Pre-Requisite	Intermediate	Co-requisite	None								
Course Objectives	The purpose of this course is to learn about how to classify elements in different groups and periods, various bonding parameters, and how can predict the shape and geometry of the molecules. Different acid-base reactions, naming, and stereochemistry of complexes.										

Course Outcomes

CO1	Understand the basic principles of different types of probability distribution functions including Binomial, Poisson & Normal distributions and their properties.
CO2	Understand the difference between parametric and non-parametric tests, their assumptions, and their types. Also, understand to perform various Chi-square tests.
CO3	Understand to use various tests including one sample test.
CO4	Understand to use different types of two sample tests such as the Run test, Kolmogorov-Smirnov's test, Median test, and Mann-Whitney U test. Spearman's rank correlation test.

Unit No.	Title of the Unit	Content of Unit	Contact Hrs.	Mapped CO
1	Probability distributions	Probability mass function (pmf) and Probability density function (pdf). Binomial Probability distributions, Poisson Probability distributions, and Normal Probability distributions.	15	CO1
2	Parametric and Non-Parametric Tests	Parametric and Non-Parametric Tests. Assumptions, and types of Tests used. Conditions of using tests, Chi-Square test for Variance, Goodness of fit, and independence of attributes.	15	CO2
3	Non Parametric test	Test for randomness and test for goodness of fit. One sample test: sign test, Wilcoxon signed-rank tests.	15	CO3
4	Two samples test	Run test, Kolmogorov-Smirnov's test, Median test and Mann-Whitney U test. Spearman's rank correlation test.	15	CO4

Reference Books:

Lehmann, F.L. (1986), Testing of Statistical Hypothesis (Student edition).

Hogg, R.V. and Craig, A.T. (1978), Introduction to Mathematical Statistics, Fourth edition, Collier MacMillan Publishers.

Mood, A.M., Graybill, F.F. and Boes, D.C. (1974), Introduction to the Theory of Statistics, Third Edition, McGraw Hill.

e-Learning Source:

<https://www.khanacademy.org/math/statistics-probability/modeling-distributions-of-data/more-on-normal-distributions/v/>

PO-PSO CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PSO1	PSO2	PSO3	PSO4
CO1	2	3	2	1	1	2	2	2	1	2	1
CO2	3	3	3	1	1	3	1	1	2	2	1
CO3	2	3	2	1	2	2	1	1	1	1	2
CO4	2	3	2	1	1	2	1	2	1	2	1

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Head
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Effective from Session: 2019-20							
Course Code	HE210	Title of the Course	Industrial Statistical Overview: Practical Approach – II	L	T	P	C
Year	II nd	Semester	IV th	5	1	0	6
Pre-Requisite	Intermediate	Co-requisite	None				
Course Objectives	The course focuses on a set of countries, which followed clearly diverse trajectories and patterns of growth to achieve their industrial transition and compares the outcomes of these diverse trajectories on sectoral change, inter-sectoral relations, employment processes and industrial relations and also compares the role of the state in facilitating the respective trajectories.						

Course Outcomes	
CO1	Students will get an insight about Price statistics. They will be able to analyze the data related with it.
CO2	Students will get an insight about Wage statistics. They will be able to analyze the data related with it.
CO3	Students will get an insight about Trade statistics. They will be able to analyze the data related with it.
CO4	Students will get an insight about National Income statistics. They will be able to analyze the data related with it.
CO5	Students will get an insight about National Sample Survey statistics.

Unit No.	Title of the Unit	Content of Unit	Contact Hrs.	Mapped CO
1	Price Statistics	Harvest Prices; Other prices. Publication containing price statistics Price Index Number : Index Number of Harvest Prices, Economic Adviser's Index of Wholesale Prices; Economic Adviser's Index of Wholesale Prices.	18	CO1
2	Wage Statistics	Publication containing Wage Statistics – Labour bureau Index of Earnings of Factory Workers. Agriculture Wages.	18	CO2
3	Trade Statistics	Publication containing Statistics of Inland and Foreign (Sea, Air and Land) Trade of India and their detailed study	18	CO3
4	National Income Statistics	Important Methods of Calculation; Difficulties in the calculation of India's National Income; Technique suitable to Indian Condition; Estimate of India's National Income; Special feature of India's National Income.	18	CO4
5	National Sample Survey	Beginning Method; First round ; Subsequent rounds; Assessment of results and Information collected.	18	CO5

Reference Books:

Elhance, D. N. (1962). Fundamentals of statistics. Kitab Mahal.

e-Learning Source:

<https://unacademy.com/content/railway-exam/study-material/general-awareness/national-sample-survey/>

PO-PSO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PSO1	PSO2	PSO3	PSO4
CO1	3	3	3	2	1	2	3	2	1	1	1
CO2	3	3	3	2	1	2	3	2	1	1	1
CO3	3	3	3	2	1	2	3	2	1	1	1
CO4	3	3	2	2	1	2	3	2	1	1	1
CO5	3	3	2	2	1	2	3	2	1	1	1

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