

Integral University, Lucknow

Effective from C									
Effective from Session Course Code	: 2019-20						1000		
Year	HE201	Title of the Course	Money and Banking-I	L	T	P	C		
Pre-Requisite	IInd	Semester	III rd	5	1	0	6		
requisite	Intermediate	Co-requisite	None		10.30				
Course Objectives	This course exposes students to the theory and functioning of the monetary and financial sectors of the								
	sector reforms a	and monetary policy with speci	al reference to India are also covere	d.		Man L	40-1-1-1		

CO1	Course Outcomes
	Identify the different functions of money and how money is related to interest rates.
CO ₂	Students will be able to understand different types of banks and their functions.
CO3	Demonstrate the importance of financial markets and financial institutions in the domestic and international economies, financial crisis, and the problem of asymmetric information.
CO4	To Understand how interest rates are determined, as well as the behavior of interest rates and the risk and term structures of interest rates.
CO5	Students will be able to understand about balance sheet and portfolio management.

Unit No.	Title of the Unit	Content of Unit		Mapped CO
1	Money	Evolution of Money, History, Concept, and functions	18	COI
2	Banks	Meaning and Types of Banks, Functions of Banks	18	CO2
3	Financial Institutions, Markets, Instruments And Financial Innovations	Role of financial markets and institutions; problem of asymmetric information – adverse selection and moral hazard; financial crises.	18	CO3
4	Interest Rates	Determination; sources of interest rate differentials; theories of term structure of interest rates; interest rates in India.	18	CO4
5	Financial Aspects Of Banks	Balance sheet and portfolio management.	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,
- 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 and Reports of the Working Group, IMF Staff Papers.

E-Learning Source:

https://nptel.ac.in/courses/109104076

https://ocw.mit.edu/courses/15-s12-blockchain-and-money-fall-2018/resources/session-15-central-banks-commercial-bankingpart-1/

			Course A	rticulation	Matrix: (N	Mapping of	COs with	POs and PS	Os)	The same of the	
PO-PSO CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PSO1	PSO2	PSO3	PSO4
CO1	3	2	2	1	1	2	2	2	3	2	3
CO2	3	1	2	2	1	2	1	2	3	2	2
	2	2	1	3	1	2	1	1	3	1	1
CO3	5	2	2	2	1	1	2	2	3	1	2
CO4	3	2	2	3	1	1	1	1	3	1	2
CO5	3	1	2	3	1	1	1	1		7 (10)	

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

sourch Ausmi Dr. sohrab Ausari

Name & Sign of Program Coordinator

Zeba Agril

signaliseal@GHeDI Science Integral University, Lucknow



Integral	University,	Lucknow
----------	-------------	---------

Effective from Session	: 2019-20				1	1	T
Course Code	HE202	Title of the Course	Public Finance –I	L	T	P	C
Year	II nd	Semester	III rd	5	1_	0	6
Pre-Requisite	Intermediate	Co-requisite	None		-		onts
Course Objectives	The purpose of practices with a handle public d	view to preparing th	t to the students an understanding of em to face the emerging challenges	f state of the public of financial resourc	es and	how to)

	Course Outcomes	
CO1	To equip the students about basic concepts of public finance.	
CO2	To understand and evaluate about taxes and incidence of taxation system	
CO3	To develop conceptual understanding about public expenditure.	
CO4	Analyses the impact of public debts on developing economy.	
CO5	To understand and evaluate the deficit financing and its impact.	

Unit No. Title of the Unit Public Finance		Content of Unit	Contact Hrs.	Mapped CO	
		Definition and scope of Public Finance, Concept of Private and Public goods, Principle of Maximum Social Advantage, Sources of Public Revenues	18	COI	
2	Taxes	Types of taxes Principles/ Canons of Toxation The Reposit Approach of			
3	Public Expenditure & its Principle	Public Meaning of Public Expenditure Principles of Public Expenditure, Wagner's Law, Miseman Peacock Hypothesis, Effect of Public expenditure on Production and		CO3	
4	Public Debt	Public Debt: Concept, Classification, effect, burden, repayment and management of Public debt	18	CO4	
5	Deficit Financing	Concepts, Deficit financing in India, Consequences of Deficit Financing. Trends of Deficit Financing	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 Fiance

e-Learning Source:

https://nptel.ac.in/courses/109104071

https://ugcmoocs.inflibnet.ac.in/index.php/courses/moocs

		Co	urse Artici	ulation Ma	trix: (Map)	oing of CO	s with POs	and PSOs)			The state of the state of
PO-PSO	DO1	1-11-11-11-11-11-11-11-11-11-11-11-11-1		Company of the last							
CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PSO1	PSO2	PSO3	PSO4
CO1	3	3	3	2	1	1	2	2	1	2	2
CO2	3	2	3	2	1	1	2	2	1	2	2
CO3	3	2	3	2	1	1	2	2	1	2	2
CO4	3	2	3	2	i	1	2	2	1	2	2
CO5	3	1	3	2		1	1	2	1	2	2

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

Solvad Ansan' Dr. Solvad Ansan'

Name & Sign of Program Coordinator

Xen Agril



		Integral Univ	ersity, Lucknow
Effective from Session: 2	019-20		L T F
Course Code	MT224	Title of the Course	Sampling Theory 5 1 0 6
Year	II nd	Semester	III rd
Pre-Requisite	Intermediate	Co-requisite	None to form camples can be used to provide estimates of population
Course Objectives	about a variet	e importance of sampli such as the population y of sampling method mpling, and judgment s	None ng and how results from samples can be used to provide estimates of population mean, the population standard deviation, and/or the population proportion. Learn mean, the population standard deviation, and/or the population proportion. Learn les including stratified random sampling, cluster sampling, systematic sampling, ampling.

THE SAME	Course Outcomes
CO1	Able to define and describe Concepts of population, sample, parameter and statistic, sampling versus complete enumeration, Probability and non-probability sampling
CO2	Able to define and explain Simple random sampling: Simple random sampling (SRS) with and without replacement of variance.
соз	Able to describe and derive Stratified random sampling: estimation of population fleating variables of the
CO4	stratified random sampling, comparison of stratified random sampling with simple random sampling. To describe Systematic sampling: estimation of population mean and population total, standard errors of these estimators. Ratio method of estimation, Bias of the ratio estimator, Regression method of estimation, and different types of sampling.

Unit No.	Title of the Unit	Content of Unit	Contact Hrs.	Mapped CO
1 Unit - I		Introduction: Concepts of population, sample, parameter and statistic, sampling versus complete enumeration, sampling units and frame, advantages of sampling methods, bias, precision and accuracy, sampling and non-sampling errors, Probability, and non-probability sampling.	20	CO1
2	Unit - II	Simple random sampling: Simple random sampling (SRS) with and without replacement, use of random number table in selection of SRS, estimation of population mean and proportion, derivation of expression for the variance of these estimates, estimates of variance. Determination of sample size.	22	CO2
3	Unit - III	Stratified random sampling: estimation of population mean& variance of the estimate of the population mean of stratified random sampling, allocation of sample size, proportional allocation, optimum & Neyman allocation, comparison of stratified random sampling with simple random sampling.	24	соз
4	Unit - IV	Systematic sampling: estimation of population mean and population total, standard errors of these estimators. Ratio method of estimation, Bias of the ratio estimator, Regression method of estimation, the bias of regression estimate, MSE of regression estimation of population mean and their mean squared error. Non-probability sampling: Introduction to Convenience Sampling, Consecutive Sampling, Quota Sampling, Judgmental Sampling, Snowball Sampling.	24	CO4

Reference Books:

Sampling techniques: W.G. Cochran, Wiley

Sampling methodologies and applications: P.S.R.S. Rao, Chapman and Hall/CRC 2000

Elements of sampling theory and methods: Z. Govindrajalu, Prentice Hall, 1999

Sampling: P. Mukhopadhyaya, Prentice Hall of India, 1998.

e-Learning Source:

https://www.youtube.com/watch?v=jauhoR7w1YM

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

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

Sohrab Ausani Or Sohrab Ausani

Name & Sign of Program Coordinator

Sign & Seal of HoD

Department of Mathematics & Statistics Integral University, Lucknow



Department of Economics Faculty of Humanities and Social Sciences Integral University, Lucknow

Effective from Sess	ion. 2010 20	integral on	versity, Eucknow		-		
Streetive Holli Sess	ion: 2019-20	and the American Street Street				_	_
Course Code	HE203	Title of the Course	Economic History of India 1857-1947	L	T	P	C
Year	II nd	Semester	III rd	2	0	0	2
Pre-Requisite		Co-requisite					
Course Objectives	rule. To	investigate the pl	andian economic development during the seconomic of the Indian economy in the wider computed the computations of the computations.	olonial c	ontext	t, and	nial the

Course Outcomes						
CO1	To understand the background of Colonial India					
CO2	To understand the status of National Income; population; occupational structure during colonial period					
CO3	To understand Agrarian structure and land relations in colonial India					
CO4	To understand Structure of Indian Industries, Development done during colonial period.					
CO5	To understand the recommendations of Royal commission on expenditure					

Unit No.	Title of the Unit	Contact Hrs.	Mapped CO	
1	Introduction	Colonial India: Background and Introduction Overview of colonial economy	6	COI
2	Macro Trends	National Income; population; occupational structure	6	CO2
3	Agriculture	Agriculture Agrarian structure and land relations; agricultural markets and institutions – credit, commerce and technology; trends in performance and productivity; famines	6	CO3
4	Industrial Development	Industrial Development in India Structure of Indian Industries, Development done during colonial period. Backlogs during colonial period	6	CO4
5	Finance	Royal Commission on Expenditure, Indian Currency Committee, Finance and Indian Debt	6	CO5

Reference Books:

Tirthankar Roy, The Economic History of India 1857-1947, Oxford University Press, 3rd edition, 2011.

Lakshmi Subramanian, History of India 1707-1857, Orient Blackswan, 2010, Chapter 4.

Romesm Dutt, The Economic History of India In the Victorian Age, Vol. 2 C.T.E.

Irfan Habib, Indian Economy 1858-1914: A People's History of India, Vol.28, Tulika, 2006.

e-Learning Source:

https://onlinecourses.swayam2.ac.in/cec20 hs34/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
	2	2	3	1	1	3	1	3	2	2	1
CO2	2	1	3	1	2	2	1	3	1	2	1
CO3	3	1	3	1	1	2	1	3	1	2	2
CO4	3	1	2	1	1	3	1	3	1	2	1
COS	3	2	3	1	1	3	-				

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

solves Ansori

Name & Sign of Program Coordinator

Yeba APV

Sign & Seal of HoD

Field

Humanities & Social Science Integral University, Lucknow



Integral University, Lucknow

Effective from Session Course Code	TIDAGE				the line	The state of	17.7
Year	II nd	Title of the Course	The second of th	L	Т	P	(
Pre-Requisite	Intermediate	Semester	III rd	2	0	0	2
Course Objectives	- Intediate	Co-requisite	None	TOTAL PARTY.		-	+

CO1	Students will be able to know ob a videous Course Outcomes
CO2	Students will be able to know about the perspective on political economy. They will understand the capitalist Students will understand the capitalist
CO3	Students will understand about the Labour Markets
CO4	Students will be able to get an included in Markets
CO5	Students will be able to get an insight of the state in the era of Globalization Students will be aware of the Changing Role of Finance
	with be aware of the Changing Role of Finance

Unit No.	Title of the Unit	Content of Unit	Contact	Mapped
1	Introduction And Historical	Perspective on political economy with a historical overview; Capitalist development in the presecond and the control of the presecond and the control of the	Hrs.	co
	Overview	development in the presecond world war period, the 'golden age' and	6	CO1
2	Changing Dynamics of Capitalist Production & Organisational	Fordist and post-fordist production; changing dynamics of organisation of production Markets	6	
3	Labour Markets	Types of Labour, Labour Market and its characteristics, Labour process and the changing nature of job security. Labour rights.	6	CO2
4	The State In The Era of Globalisation: Welfare, Development And Autonomy	Globalisation and the limits of the welfare state, development and state autonomy	6	CO3
5	The Changing Role of Finance	The changing role of finance in capital accumulation and corporate structure; finance and globalisation – financialisation, financial liberalisation and financial crisis.	6	CO4

Michel Beaud, A History of Capitalism, 1500-2000, trans. by Tom Dickman and Anny Lefebvre, New York: Monthly

Ash Amin (ed.), Post-Fordism: A Reader, Blackwell, 1994.

Fran Tonkiss, Contemporary Economic Sociology: Globalisation, Production, Inequality, Chapter 4 (Fordism and After), Routledge India

S. Hymer, 1975, "The Multinational Corporation and the Law of Uneven Development", in H. Radice (ed.) International Firms and

G. Gereffi, J. Humphrey and T. Sturgeon, 2005

e-Learning Source:

https://onlinecourses.swayam2.ac.in/nou22 hs58/preview

https://onlinecourses.swayam2.ac.in/cec23 hs26/preview

PO-PSO	DO1	nos			Contract of the last of the la						
CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PSO1	PSO2	PSO3	PSO4
CO1	3	2	3	2	1	1	2	-			1504
CO2	3	2	3	2	1	2	3	2	1	1	1
CO3	3	2	3	2		3	2	2	1	1	1
CO4	3	2	2	2	1	1	1	2	1	1	1
CO5	2	2	3	2	1	2	2	2	1	1	1
000	3	2	3	2	1	2	2	2	1	1	1

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

Sohrab Ansan'

Name & Sign of Program Coordinator

Leba Anl

Sign & Seal of HoD

Humanities & Social Science Integral University, Lucknow



Integral University, Lucknow

Effective from Session:	2019-20						
Course Code	MT225	Title of the Course	Probability and Test of Significance-1	L	T	P	C
Year	Had	Semester	III rd	5	1	0	6
Pre-Requisite	Intermediate	Co-requisite	None				
Course Objectives	information for		ents with the basic statistical tools used to summarize ance their knowledge of statistics in business managemen- ical models.				

	Course Outcomes
CO1	To understand the basic principles of probability including the laws for unions, intersections, and complementation, Bayes theorem and use these principles in problem-solving situations.
CO2	To perform a Test of Hypothesis as well as calculate the confidence interval for a population parameter for a single sample and two sample cases. Understand the concept of p-values.
CO3	To understand and critically discuss the issues surrounding the test and its significance.
CO4	To interpret the degrees of freedom (df), between-group variance (MSBG), within-group variance (MSWG), and the F-ratio (F) for the one-way ANOVA.

Unit No.	Title of the Unit	Content of Unit	Contact Hrs.	Mapped
1	Unit - I	Introduction to Probability: Random experiments, sample space, and events. Classical, statistical, and axiomatic definitions of probability, laws of addition and multiplication, independent events, and conditional Probability.	20	CO1
2	Unit - II	Statistical Hypothesis: Concepts of Null and alternative hypothesis, Simple and composite hypothesis, Degree of freedom, Critical Regions, Types of errors, Level of Significance, Size and power of the test, Confidence interval, Most powerful (MP) test, Neymann-Pearson Lemma, UMP test, Simple problems.	22	CO2
3	Unit - III	Significance test: Large sample and small sample tests (Exact tests), Normal test for mean, variance, and proportion, Small sample tests based on t distribution, chi-square distribution, and F for testing variance.	24	СОЗ
4	Unit - IV	Analysis of variance: One-way and two-way classification. Categorical data: Tests of proportions, tests of association, and goodness-of-fit using the Chi-square test, Yates' correction.	24	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 Mac.Millan Publishers.

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

Myer, P.L. (1970): Introductory Probability and Statistical Applications, Oxford & IBH Publishing, New Delhi.

e-Learning Source:

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

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	2	1
CO4	2	3	2	1	1	2	1	2	1	2	2

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

Sobrab Ansari

Name & Sign of Program Coordinator

Sign & Seal of HoD

Head
Department of Mathematics & Statistics
Integral University, Lucknow



Effective from Session	ı: 2019-20					T	Ta
Course Code	HE 205	Title of the Course	Industrial Statistical Overview : Practical Approach – I III rd		T 1	P 0	C 6
Year	II nd	Semester					
Pre-Requisite	Intermediate	Co-requisite	None	- d - ott	arne o	farow	th to
Course Objectives	achieve their in inter-sectoral r	ndustrial transition and c	s, which followed clearly diverse trajectories a ompares the outcomes of these diverse trajectories and compares and industrial relations and also compares	nies or	Section	iai ciici	

	Course Outcomes
CO1	Students will know about Statistical Organization
CO2	Students will get an insight about Population statistics. They will be able to analyze the data related with it.
CO3	Students will get an insight about Agricultural statistics. They will be able to analyze the data related with it.
CO4	Students will get an insight about Industrial statistics. They will be able to analyze the data related with it.
CO5	Students will get an insight about Financial statistics. They will be able to analyze the data related with it.

Unit No.	Title of the Unit	Content of Unit	Contact Hrs.	Mapped CO
1	Statistical Organization	Statistical Organization: Early beginnings; 18th Century; 19th Century; 20th Century; Present Position. Improvement in Methodology, Scope and Coverage	18	CO1
2	Population Statistics	Census Procedure upto 1931; Change in 1941; Census of 1951; Information collected, General Criticism of Indian Population Census; Census of 1961 – Some suggessions. Vital Statistics – Shortcomings, Demographic Surveys. Utility of population statistics	18	CO2
3	Agriculture Statistics	Area Statistics; Temporarily settled areas and Permanently settled areas; Yield Statistics; Traditional Method; Random Sampling Method; Cropestimates J Land Utilization Statistics; Publication on Agricultural Statistics; General Shortcomings of Agricultural Statistics Indices of Agricultural Production: Reserve Bank of India Index; Eastern Economist Index; F. A. O. Index. Miscellaneous Agricultural Statistics: Livestock Statistics—Statistics of Holdings; Forest Statistics of Mines and Minerals.	18	CO3
4	Industrial Statistics	Early Statistics, Present Position, Annual Census of Manufacturers; Statistics of Industrial Output Indices of Industrial Production and Profit: Eastern Ecomomist Index, Index used by Ministry of Commerce and Industry, Capital Index of Industrial Activity.	18	CO4
5	Financial Statistics	Publication containing financial statistics and their study.	18	CO5

Reference Books:

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

e-Learning Source:

http://ecoursesonline.iasri.res.in/mod/resource/view.php?id=89749

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

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

Sohrab Ausari

Name & Sign of Program Coordinator

Zeba And Humanitian & On

Humanities & Social Science Sign & Scall of He Bity, Lucknow