LNCT UNIVERSITY, BHOPAL

BBA-BIA III Semester | ***Syllabus*** | **SESSION : 2025-26**

Name of Paper	Paper Code	Theory				
		L	T	EST	CAT	Total
BUSINESS ENVIRONMENT	**BIA-301**	**3**	**1**	**70**	**30**	**100**

Objective: *The objective of this course is to teach the students about business environment and its effectiveness in business environment.*

Unit	Contents (Theory)	Hours/Week
I	Meaning of Business Environment, Factors affecting business environment, Internal and External Environment, Types of Environment (PESTLE)	9 Hours
II	Political Environment: Economic roles of the government, economic roles of government of India, impact of political environment on Business. Legal Environment, its impact on Business, Environmental protection Act, Promotion and planning for Environmental policies.	10 Hours
III	Economic Environment: Nature of economy, structure of the economy, economic policies, economic conditions.	8 Hours
IV	Social Environment: Business and society, business and culture, language, culture and organizational behavior, other social/cultural factors, social responsibility of business.	10 Hours
V	Technological Environment: Concept and significance of the technological environment, regulation of foreign investment and collaboration. Environmental factors, its impact on business.	10 Hours

Name of Authors	Titles of the Book	Edition	Name of the Publisher
Paul	Business Environment "Text & Cases"	Latest edition	McGraw Hill Edu
K Chidambaram & V Alagappan	Business Environment	Latest edition	Vikas Publishing
Dr. C.B. Gupta	Business Environment	Latest edition	Sultan Chand & Sons

LNCT UNIVERSITY, BHOPAL

Name of Paper	Paper Code	Theory				
Management Accounting	BIA-302	L	T	EST	CAT	Total
		3	1	70	30	100

Objectives: *The objective of this course is to teach business statistics its s*cope*, nature, importance and limitations of statistics and functions of statistics.*

Unit	Contents (Theory)	Hours/Week
I	Meaning, Concepts and Objectives, Merits and Demerits of Standard costing, Prerequisite for establishment of standard costing, Efficiency and Activity Ratios, Variance Analysis and Control	10 Hours
II	Definition, Assumptions and Uses, Marginal Costing Vs. Absorption Costing, CVP /BEP Analysis, Key factors and Safety Margin, Managerial Decision-Making Areas – Product Mix, Make or Buy, Pricing Decisions	9 Hours
III	Concepts and Objectives, Merits and Demerits of Budgetary Control, Fixed and Flexible Budget, Cash Budget and master Budget, Zero based Budgeting	10 Hours
IV	Need of reconciliation, Remodeling Financial Records, Reconciliation of Profits, Methods of Reconciliation	8 Hours
V	Students are expected to select a company and Perform cost analysis of that company, prepare a report and make presentation in the class. Live cases cost accounting reports attached to annual reports should be analyzed	8 Hours

Name of Authors	Titles of the Book	Edition	Name of the Publisher
I.M. Pandey	Management Accounting		Vikas Publishing House (P) Ltd.
Ravi M. Kishore	Advanced Management Accounting		Taxmann's, Taxmann Publication (P) Ltd
M.Y. Khan & P.K. Jain	Theory and Problems of Management and Cost Accounting;		McGraw-Hill Education (India) Ltd

LNCT UNIVERSITY, BHOPAL

Name of Paper	Paper Code	Theory				
		L	T	EST	CAT	Total
INTRODUCTION TO R PROGRAMMING	BIA-303	3	1	70	30	100

Objectives: *The objective of this course is to Understand Data Science and its applications, Familiarize with R syntax, Recognize and make appropriate use of different types of data structures*

Unit	Contents (Theory)	Hours/Week
I	Installing R, Working with Script, Navigating the Workspace. Reading and Writing Data sets in R: Using c () command to create data, using scan () command for getting data in R, reading bigger data files using read.csv, exporting data.	8 Hours
II	Manipulation and Processing Data in R: Subsetting, adding calculated fields to data, combining and merging datasets in R, Sorting and Ordering data, Introduction to formula interface, putting data into shape with reshape2 package.	10 Hours
III	Using Functions and Packages in R: Moving from script to functions, using arguments the smart way, scope of the function, dispatching to a method, using packages.	9 Hours
IV	Control Statement and Looping: Analyzing Data Using Functions, Loops, and Data Frames, Matrices, Lists, and Data Frames, Indexing Vectors, Matrices, and Lists, Programming in R	8 Hours
V	Graphical Presentation: Graphical Analysis in R, Plots for Single, Variable, Plots with Two Variables, Plots for Multiple Comparisons, Plots with Multiple Variables, Special Plots, Saving Graphs to External Files.	10 Hours

Name of Authors	Titles of the Book	Edition	Name of the Publisher
Crawley, Mitchael J.	The R Book		Wiley
Kerns, G. J.	An Introduction to Probability and Statistics using R		
Gardener, Mark.	Beginning R: The Statistical Programming Language		Wiley

LNCT UNIVERSITY, BHOPAL

Name of Paper	Paper Code	Theory				
INFERENTIAL STATISTIC	**BIA -304**	**L**	**T**	**EST**	**CAT**	**Total**
		3	**1**	**70**	**30**	**100**

Objectives: *The objective of this course is to select appropriate statistical techniques for summarizing and displaying business data*

Unit	Contents (Theory)	Hours/Week
I	Tests for Normality: Normality assessment through Histogram, Probability Plot, Q-Q Plot. Outlier's assessment. SPSS application, Normalcy tests: Shapiro-Wilk and Kolmogorov Smirnov Test of Normality	8Hours
II	Correlation: Covariance, Analysis of relationship, Karl Pearson correlation of coefficient, Spearman correlation of coefficient, Application of correlation with SPSS/ Excel.	10 Hours
III	Parametric Methods: Introduction to hypothesis testing, one-tailed, and two-tailed tests, type I and type II errors, Central Limit Theorem, hypothesis testing for a single population means, z test, t-test, f-Test, one-way ANOVA.	11 Hours
IV	Regression: Ordinary Least Square Regression, Standard error of estimate, Adjusted R square and goodness of fit.	8 Hours
V	Nonparametric Methods: Related samples, Wilcoxon Signed Rank, Mann-Whitney test, Kruskal-Wallis Test, Friedman AVOVA test	8 Hours

Name of Authors	Titles of the Book	Edition	Name of the Publisher
Anderson, David R., Thomas A. Williams and Dennis J. Sweeney.	Statistics for Business and Economics.		South Western
Levin, Richard I. and David S. Rubin	Statistics for Management		Prentice Hall.
Waller, Derek.	Statistics for Business		PHI
Lee, Cheng.	Statistics for Business and Financial Economics.		New York: Heidelberg Dordrecht.

LNCT UNIVERSITY, BHOPAL

Name of Paper	Paper Code	Theory				
INTRODUCTION TO PYTHON	**BIA-305**	**L**	**T**	**EST**	**CAT**	**Total**
		3	**1**	**70**	**30**	**100**

Objectives: *The objective of this course is to teach the students about Python language syntax and to learn control statements, loops, functions, and lists*

Unit	Contents (Theory)	Hours/Week
I	Introduction to Python: Introduction to the field of data science using python, Common Python functionality and features, understanding of Jupyter Notebook.	10 Hours
II	Important Packages in Python: Data cleaning and processing using PANDAS. Data Frame structures, other data structure in python. Introduction to python packages -NUMPY, SciPy, Ipython.	10 Hours
III	Data frames & Statistical Techniques in Python: Data Frames operations - summary tables, grouping data, uses of scales of data. Descriptive statistics with Python.	9 Hours
IV	Subsetting: Indexing in Python, Tuple subsetting, dictionaries subsetting, Array subsetting, dataframe subsetting, filtering with dataframe.	8 Hours
V	Looping and Conditional Statement: Introduction to looping- for loop, while loop, Conditional statement- if statement, nested if in python.	8 Hours

Name of Authors	Titles of the Book	Edition	Name of the Publisher
John Paul Mueller	Beginning Programming with Python for Dummies		
Michael Knapp	Python: Programming for Beginners: Learn the Fundamentals of Python		
Reema Thareja	Python Programming: Using Problem Solving Approach		Tata McGraw Hill