

**Bhavan's Vivekananda College
of Science, Humanities and Commerce
(Sainikpuri, Secunderabad, Telangana – 500094)
Autonomous College – Affiliated to Osmania University
Accredited with 'A' Grade by NAAC**

Bachelor of Commerce (Honours Business Analytics)

Program Outcomes:

PO1 Business, Accounting and Finance Knowledge: Ability to apply business, accounting and finance knowledge which is essential for decision making in an organization

PO2 Problem Analysis: Ability to apply basic statistical, legal, finance, accounting and analytical skills for interpreting business-related problems.

PO3 Develop Solutions: Ability to critically analyze and develop solutions to meet the specific needs of an organization.

PO4 Adapting to Systems: Ability to adapt to new systems by applying discipline specific knowledge and entrepreneurial skills to solve problems and provide valid conclusions.

PO5 Communication: Communicate effectively on problems, issues and solutions with community and with society at large, such as being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.

PO6 Ethics & Environment: Apply ethical principles and commit to professional ethics and responsibilities and norms in research and the functional areas, understand the issues of environmental context and sustainable development.

PO7 Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.

PO8 Self-directed and Life-long Learning: Acquire the ability to engage in independent and life-long learning in the broadest context of socio, economic and technological changes.

Program Specific Outcomes

PSO 1: Understand and develop wide spectrum of analytical skills in the areas of Trade, Commerce and Industry.

PSO 2: Apply critical and analytical research skill to evaluate the real time problems in specialized field of study.

PSO 3: Versatility to function in multi-disciplinary work environment, develop good interpersonal skills with work ethics and societal responsibilities.

Course Outcomes:

Name of the Course		FINANCIAL ACCOUNTING – I
Course Code		HBA151
CO1	Identify the key principles of accounting, branches of accounting and apply them in the process of accounting.	
CO2	Acquaint them with different types of subsidiary books.	
CO3	Compare the balances of cash book and pass book and reconcile them.	
CO4	Categorise the types of errors, rectify them and prepare final accounts.	
CO5	Assess the value of assets by using different methods of depreciation.	

Name of the Course		MANAGERIAL ECONOMICS
Course Code		HBA152
CO1	Identify various utility approaches and the laws associated with cardinal utility approach.	
CO2	Identify the factors determining the demand along with the laws of demand and able to demonstrate the knowledge of understanding of elasticity of demand.	
CO3	Identify the factors determining the supply along with the laws of supply and identify the factors determining the production and also able to demonstrate short run and long run production laws.	
CO4	Distinguish between various types of costs short run and long run costs	
CO5	Develop knowledge regarding National income, Measurement of National Income, Business cycle and inflation	

Name of the Course		PRINCIPLES OF MARKETING
Course Code		HBA153
CO1	Exemplify the key concepts of marketing; define the role of marketing in economic development, and also will be able to identify the relevance of marketing mix for various products and services.	
CO2	Identify the main factors and forces of marketing environment that affect a firm's ability to build and maintain successful customer relationships.	

CO3	Describe major bases for segmenting consumer and business markets; define and be able to apply the three steps of target marketing: market segmentation, target marketing, and market positioning; understand how different situations in the competitive environment will affect choices in target marketing.
CO4	Explain the major types of consumer market and business market buying behaviour, the stages in the buyer decision process and analyse the major factors that influence both consumer market and business market purchasing decision.
CO5	Define the basic concepts related to marketing research and list the marketing research process.
Name of the Course	
BUSINESS MATHEMATICS	
Course Code	
HBA154	
CO1	Familiarize the concepts of Time Value of Money by Grasping the Concepts of Simple Interest, Compound Interest and Annuities.
CO2	Examine the nature of the variables by figuring out the logical relationship of the functional behaviour, also the fundamentals of Limits, Continuity and Sets through their applications in the field of Business and Industry.
CO3	Conceptualize the core methods of Mathematical Operations using Matrices.
CO4	Apply the concepts of quadratic equations and progressions in practical business decisions.
CO5	Integrate Differentiation & Integration applications in the areas related to economics & business

Name of the Course	
INFORMATION TECHNOLOGY FOR BUSINESS ANALYTICS	
Course Code	
HBA 155	
CO1	Identify various parts of computers and their functions.
CO2	Distinguish various operating systems and execute DOS commands.
CO3	Make use of Ms.-word application.
CO4	Design power point presentation.
CO5	Apply the concepts of Internet and Multimedia.

Name of the Course	
FINANCIAL ACCOUNTING-II	
Course Code	
HBA251	
CO1	Outline the various contemporary issues of accounting.
CO2	*Identify the profit/loss understatement of affairs method and conversion method in single entry system.

CO3	Prepare accounts of non-trading concerns.
CO4	Solve problems related to types of capital accounts, admission, retirement and death of a partner of partnership firm.
CO5	Evaluate the firms at the time of dissolution and insolvency of partnership firm.

Name of the Course	BUSINESS ORGANISATION & MANAGEMENT
Course Code	HBA252
CO1	Classify the concepts of business -trade,industry and commerce.
CO2	Distinguish different forms of business organisations
CO3	Outline the features of Joint Hindu family firm and Categorize different forms of companies.
CO4	Explain the principles of management in business organisations, and develops the skills to act as manager.
CO5	Discuss the concept organization, centralization, decentralization and delegation of authority.

Name of the Course	DATA ANALYSIS WITH EXCEL
Course Code	HBA253
CO1	Identify the data analysis methods and tools in excel application.
CO2	Interpret formatting, sorting, filtering.
CO3	Analyse and implement calculations using formulae and function methods
CO4	Apply knowledge for Design Chart and graphs.
CO5	Interpret data using validation tools Goal seek method and lookup wizard

Name of the Course	BUSINESS STATISTICS-I
Course Code	HBA254
CO1	To familiarise the basic concepts of statistics along with methods of collection and presentation of data.
CO2	To compute averages using different methods of central tendency.
CO3	To examine the variation of data through different methods of dispersion.
CO4	To identify the skewness and peaked ness in the data using the methods of skewness and kurtosis
CO5	To determine the relation between variables using the methods of correlation.

Name of the Course	FINANCIAL SYSTEM
Course Code	HBA255
CO1	Illustrate the role of financial system in economic development.
CO2	Explain about the growth and operations of the Commercial banks in India
CO3	Elucidate the role of RBI with functioning of various banks under the control of RBI
CO4	Describe the regulations and workings of Indian Money Market.
CO5	Evaluate the regulations and functioning of the stock exchange and differentiate the role of different Banks in Indian financial System.

Name of the Course	ADVANCED ACCOUNTING
Course Code	HBA351
CO1	Execute the process of accounting for issue of Shares and Debt.
CO2	Prepare the Balance sheet and Statement of Profit and loss of Joint stock companies and accounting for Issue of bonus shares.
CO3	Estimate the Value of Goodwill and Shares by various methods.
CO4	Examine the differences in the Accounting for an amalgamation in the nature of merger and purchase and its accounting in the books of Transferor and transferee.
CO5	Determine the provisions of section 66 of the Companies act and presenting the reconstituted Balance sheet.

Name of the Course	INCOME TAX
Course Code	HBA352
CO1	Identify types of taxes and explain Income Tax concepts
CO2	Summarize the agricultural income and the scope of residential status of a person.
CO3	Enumerate the Income from Salaries.
CO4	Assess income from house property of an individual.
CO5	Determine the profits and gains from business and profession.

Name of the Course	BUSINESS STATISTICS-II
Course Code	HBA353
CO1	Identify the dependent and independent variables using simple Regression.
CO2	Comprehend the concept of inflation and construction of Index using weighted and un-weighted models.
CO3	Implementing the utility of time series analysis.
CO4	Assessing the theorems of probability and its utility in estimating and analyzing a situation.
CO5	Facilitating in operation research, sales forecasting and in risk evaluation.

Name of the Course	BUSINESS ANALYTICS
Course Code	HBA354
CO1	To familiarize with the Operations Techniques to market situations for taking Business Decision Making.
CO2	To introduce the concepts of Linear Programming and equip the learners to link the variables so to create Mathematical Models to formulate LPP.
CO3	To find the Optimum Solution for a LPP using Graphical method.
CO4	To find out the Optimum Solution using Simple Method.
CO5	To do the descriptive analysis using recent tools to perceive the data.

Name of the Course	MANAGEMENT INFORMATION SYSTEM
Course Code	HBA356
CO1	Annotate on management relation with Information Technology and adapt in working on MS Access in creating database.
CO2	Define the types and role of IS in business and its impact.
CO3	Summarize the role of Management Information Systems in achieving business competitive advantage through informed decision-making and determine leadership skills and competencies in business situations.
CO4	Exemplify fundamental concepts of data communications, computer networking, and the related hardware.
CO5	Determine project management methods in complex systems development environments and demonstrate the major steps in the design and implementation phases of the system development life cycle (SDLC).

Name of the Course	CORPORATE ACCOUNTING
Course Code	HBA451
CO1	Prepare the Profit and Loss A/c, Balance sheet and understand about the NP A's and Income recognition of a Bank.
CO2	Review the forms of Statement of Affairs and Liquidator's Final statement of account.
CO3	Execute the drawing up of the Revenue account and Balance sheet and also estimate the Net or True Surplus.
CO4	Examine the differences between Life insurance and General insurance, estimate the provision for unexpired risk and drawing up of Revenue account and Balance sheet.
CO5	Determine the provisions of accounting standard 21 and prepare the consolidated Balance sheet.

Name of the Course	AUDITING
Course Code	HBA 452
CO1	Outline the basic concepts of audit and audit planning
CO2	Identifying the various techniques of Internal control and Internal checks required for audit
CO3	Review the importance of vouching in relation to audit procedures.
CO4	Comparing verification and valuation of various assets and liabilities
CO5	Relate the various provisions of company audit under the companies act 2013.

Name of the Course	RESEARCH METHODOLOGY
Course Code	HBA453
CO1	Familiarize with the research terminology and make them catch up the different types of research studies that they can conduct in their future endeavours.
CO2	To accustom different methods of sampling and research designs which will enable them to construct a suitable research design for the project.
CO3	Registrants to construct an appropriate questionnaire and establish a research hypothesis accordingly.
CO4	Will equip learners to do data analysis as per their data requirements, by which they will be able to draw inferences
CO5	To know and apply the technology in the field of research and also prepare the project report as per the present day requirements

Name of the Course	BUSINESS SIMULATION
Course Code	HBA454
CO1	Comprehend basics of python programming
CO2	Apply conditions, loops for program developing and handle exceptions
CO3	Gain an insight into basics of simulation
CO4	Implement simulation models
CO5	Analyse the risks, simulation output and generate various plots using simulation techniques

Name of the Course	DATA ANALYICS USING R
Course Code	HBA455
CO1	Acquaint with R Environment
CO2	Apply R Programming for descriptive and predictive analytics

Name of the Course	E-COMMERCE & DIGITAL MARKETING
Course Code	HBA456
CO1	Annotate on Ecommerce applications and various business models in it.
CO2	Define the various protocols and security techniques in ecommerce.
CO3	Summarize the implementation of Ecommerce with consumers as well as merchant's perspective and also on EFT.
CO4	Exemplify security and privacy issues involved in Electronic Data Interchange.
CO5	Determine digital marketing methods, measures, risks and benefits.

Name of the Course	COST AND MANAGEMENT ACCOUNTING
Course Code	HBA 551
CO1	Discuss the basic concepts, principles and procedures involved in Cost Accounting.
CO2	Understand various material control techniques and accounting for stores record.
CO3	Demonstrate various wage incentive schemes, wage payment systems and appropriate method of apportionment and absorption of overheads.
CO4	Analyse the given information and prepare tenders, estimates and job cost sheets.

CO5	Classify cost for making decisions and understand the technique involved in making decisions based on it.
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Name of the Course	MERCANTILE LAW
Course Code	HBA552
CO1	Understand the basic concepts and laws of business
CO2	Understand the concept of Sale and Sale of Goods
CO3	Develop the procedure and registration of Intellectual Property Rights and learn the skills to innovate and register IPRs.
CO4	Identify relevant documents and management of Companies as per Companies Act, 2013
CO5	Acquaint with the concept of Consumer Protection Act

Name of the Course	BUSINESS FORECASTING
Course Code	HBA553
CO1	Apply the various forecasting techniques, which will help organization improve its performance.
CO2	Acquire the knowledge of smoothing techniques
CO3	Analyse the data using simple linear regression analysis.
CO4	Synthesize the data using multiple linear regression analysis
CO5	Demonstrate data analysis using logistic regression, ROC curves using Baye's Theorem

Name of the Course	APPLICATIONS OF BUSINESS ANALYTICS
Course Code	HBA554
CO1	Understand the basics of Business Analytics using excel functions for data cleansing data standardization, filtering and aggregation using pivot tables
CO2	Apply SQL for data manipulations and querying
CO3	Converge the concepts of Testing of Hypothesis in data analysis
CO4	Create dashboards in excel and communicate using reports
CO5	Comprehend the data using python

Name of the Course		FINANCIAL STATEMENT ANALYSIS
Course Code		HBA 651
CO1	Describe and articulate the basic concepts financial statement analysis.	
CO2	Composing and moderating the analyzed financial statements by use of various techniques	
CO3	Apply the ratios in determining its values based on thumb rules.	
CO4	Evaluate and integrate the flow of funds and changes in the financial position of the concern.	
CO5	Identify the importance of cash flow statement in the organization and correlate the decision making relating to financial aspects of the organization.	
Name of the Course		PROJECT REPORT AND VIVA VOCE
Course Code		HBA 652
CO1	At the end of the course, the students will be able to analyse, evaluate and apply the statistical knowledge in the field of research.	

Name of the Course		BUSINESS INTELLIGENCE AND DATA VISUALISATION
Course Code		HBA 653
CO1	To make use of power BI in Analytics	
CO2	To identify the requirements of dash boards and to publish dashboards	
CO3	To utilise Tableau in developing first plots	
CO4	To appraise the development of dashboards through Tableau and creating buttons	
CO5	To utilise MYSQL in Tableau	
Name of the Course		BUSINESS ANALYTICS PROGRAMMING
Course Code		HBA 654
CO1	Acquaint with the concept of Big Data	
CO2	Annotate the concept of AI and its related aspects	
CO3	Apply the concepts of AI in Finance	
CO4	Appraise the use of AI in Marketing	
CO5	Analyse various aspects of HR like recruitment, learning and measuring through application of AI	

Name of the Course	HUMAN RESOURCE MANAGEMENT
Course Code	HBA 655
CO1	To assess the functions of HR manager and the process of HR acquisition.
CO2	To make use of compensation management and build the competencies to the emerging trends in HR.

Course Matrix

Name of the Program: B.COM (HONOURS BUSINESS ANALYTICS)											
FINANCIAL ACCOUNTING I								Course Code: HBA151			
Semester: I								Year: I			
Academic Year: 2019-20								Batch: 2019-22			
	Program Outcomes								PSO		
COs/POs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3
CO1	3	1	1	1	-	-	2	3	3	2	1
CO2	3	2	1	1	-	-	2	3	3	3	1
CO3	3	3	2	2	2	2	2	3	3	3	1
CO4	3	3	3	2	2	2	2	2	3	3	1
CO5	3	3	1	1	1	1	-	2	3	2	-
	3	2.4	1.6	1.4	1.67	1.67	2	2.6	3	2.6	1

Name of the Program: B.COM (HONOURS BUSINESS ANALYTICS)											
MANAGERIAL ECONOMICS								Course Code: HBA152			
Semester: I								Year: I			
Academic Year: 2019-20								Batch: 2019-22			
	Program Outcomes								PSO		
COs/POs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3
CO1	3	2	2	3	1	1	2	3	3	1	1
CO2	2	3	2	2	1	1	-	3	3	1	1
CO3	3	3	3	2	2	-	-	3	3	1	-
CO4	3	3	3	2	2	-	-	3	3	1	-
CO5	2	2	2	2	2	-	-	3	3	1	2
	2.6	2.6	2.4	2.2	1.6	1	2	3	3	1	1.33

Name of the Program: B.COM (HONOURS BUSINESS ANALYTICS)											
PRINCIPLES OF MARKETING								Course Code: HBA153			
Semester: I								Year: I			
Academic Year: 2019-20								Batch: 2019-22			
	Program Outcomes								PSO		
COs/POs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3
CO1	3	1	2	2	1	2	2	3	3	-	-
CO2	3	1	2	2	1	2	1	3	3	1	1
CO3	3	1	2	2	1	2	1	3	3	-	1
CO4	3	2	2	2	1	1	1	3	3	-	-
CO5	3	2	2	2	2	2	1	3	3	-	-
	3	1.4	2	2	1.2	1.8	1.2	3	3	1	1

Name of the Program: B.COM (HONOURS BUSINESS ANALYTICS)											
BUSINESS MATHEMATICS								Course Code: HBA154			
Semester: I								Year: I			
Academic Year: 2019-20								Batch: 2019-22			
	Program Outcomes								PSO		
COs/POs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3
CO1	3	3	3	1	1	1	3	3	3	3	1
CO2	3	3	3	2	2	1	3	3	3	3	3
CO3	3	3	3	2	1	1	1	3	3	2	-
CO4	3	3	2	2	1	1	1	3	2	2	1
CO5	3	3	3	2	2	1	2	3	3	3	-
	3	3	2.8	1.8	1.4	1	2	3	2.8	2.6	1.67

Name of the Program: B.COM (HONOURS BUSINESS ANALYTICS)											
INFORMATION TECHNOLOGY FOR BUSINESS ANALYTICS								Course Code: HBA155			
Semester: I								Year: I			
Academic Year: 2019-20								Batch: 2019-22			
	Program Outcomes								PSO		
COs/POs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3
CO1	-	-	-	2	2	-	1	1	3	2	1
CO2	1	2	2	2	2	1	2	1	3	3	-
CO3	-	2	2	2	3	2	3	2	3	3	1
CO4	3	3	3	3	3	1	2	2	3	3	2
CO5	2	2	2	3	3	3	2	2	3	3	2
	2	2.25	2.25	2.40	2.60	1.75	2.00	1.60	3.00	2.80	1.50

Name of the Program: B.COM (HONOURS BUSINESS ANALYTICS)											
FINANCIAL ACCOUNTING II								Course Code: HBA251			
Semester: II								Year: I			
Academic Year: 2019-20								Batch: 2019-22			
	Program Outcomes								PSO		
COs/POs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3
CO1	3	1	1	2	1	3	2	2	3	2	3
CO2	3	3	2	2	1	3	2	2	3	1	-
CO3	3	3	3	2	1	3	2	2	3	1	2
CO4	3	3	2	2	2	3	2	2	3	1	-
CO5	3	3	3	2	2	3	3	3	3	1	-
	3	2.6	2.2	2	1.4	3	2.2	2.2	3	1.2	2.50

Name of the Program: B.COM (HONOURS BUSINESS ANALYTICS)											
BUSINESS ORGANISATION AND MANAGEMENT									Course Code: HBA252		
Semester: II									Year: I		
Academic Year: 2019-20									Batch: 2019-22		
Program Outcomes									PSO		
COs/POs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3
CO1	3	2	1	2	1	2	1	2	3	1	2
CO2	3	2	1	2	1	2	1	2	3	1	2
CO3	3	2	1	2	1	2	1	2	3	1	2
CO4	3	2	1	2	1	2	3	2	3	1	2
CO5	3	2	1	2	1	2	2	2	3	1	2
	3	2	1	2	1	2	1.6	2	3	1	2

Name of the Program: B.COM (HONOURS BUSINESS ANALYTICS)											
DATA ANALYTICS WITH EXCEL									Course Code: HBA253		
Semester: II									Year: I		
Academic Year: 2019-20									Batch: 2019-22		
Program Outcomes									PSO		
COs/POs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3
CO1	-	1	1	3	2	1	1	1	3	2	1
CO2	-	3	3	3	2	1	2	1	3	3	-
CO3	3	3	3	3	3	1	2	1	3	3	1
CO4	2	3	3	3	2	1	2	1	3	3	1
CO5	2	3	3	3	2	1	2	1	3	3	1
	2.33	2.60	2.60	3.00	2.20	1.00	1.80	1.00	3.00	2.80	1.00

Name of the Program: B.COM (HONOURS BUSINESS ANALYTICS)											
BUSINESS STATISTICS I									Course Code: HBA254		
Semester: II									Year: I		
Academic Year: 2019-20									Batch: 2019-22		
Program Outcomes									PSO		
COs/POs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3
CO1	3	2	2	1	1	1	1	3	3	1	-
CO2	3	2	2	1	1	1	1	3	3	3	-
CO3	3	3	2	2	3	2	2	3	3	2	-
CO4	3	2	2	1	1	1	1	3	3	2	-
CO5	3	2	2	1	2	1	1	3	3	3	1
	3	2.2	2	1.2	1.6	1.2	1.2	3	3	2.2	1

Name of the Program: B.COM (HONOURS BUSINESS ANALYTICS)											
FINANCIAL SYSTEM								Course Code: HBA255			
Semester: II								Year: I			
Academic Year: 2019-20								Batch: 2019-22			
	Program Outcomes								PSO		
COs/POs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3
CO1	3	2	1	1	1	1	1	3	3	1	1
CO2	3	2	1	1	1	1	1	3	3	2	1
CO3	3	2	1	1	1	1	1	3	3	2	1
CO4	3	2	1	1	1	1	1	3	3	2	1
CO5	3	2	1	1	1	1	1	3	3	2	1
	3	2	1	1	1	1	1	3	3	1.8	1

Name of the Program: B.COM (HONOURS BUSINESS ANALYTICS)											
ADVANCED ACCOUNTING								Course Code: HBA351			
Semester: III								Year: II			
Academic Year: 2020-21								Batch: 2019-22			
	Program Outcomes								PSO		
COs/POs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3
CO1	3	3	3	1	-	-	-	2	3	-	-
CO2	3	3	3	2	2	1	2	3	3	2	-
CO3	3	3	3	1	2	1	-	3	3	1	-
CO4	3	3	3	1	2	-	2	3	3	3	1
CO5	3	3	3	1	3	2	1	3	3	-	-
	3	3	3	1.2	2.25	1.33	1.67	2.8	3	2	1

Name of the Program: B.COM (HONOURS BUSINESS ANALYTICS)											
INCOME TAX								Course Code: HBA352			
Semester: III								Year: II			
Academic Year: 2020-21								Batch: 2019-22			
	Program Outcomes								PSO		
COs/POs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3
CO1	3	2	2	2	2	1	2	3	3	2	1
CO2	3	3	3	2	2	2	1	3	3	3	2
CO3	3	3	3	2	1	2	1	2	3	2	1
CO4	3	3	3	2	2	2	2	2	3	2	1
CO5	3	3	3	2	1	1	1	2	3	2	2
	3	2.8	2.8	2	1.6	1.6	1.4	2.4	3	2.2	1.4

Name of the Program: B.COM (HONOURS BUSINESS ANALYTICS)											
BUSINESS STATISTICS-II								Course Code: HBA353			
Semester: III								Year: II			
Academic Year: 2020-21								Batch: 2019-22			
	Program Outcomes								PSO		
COs/POs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3
CO1	3	3	3	2	2	2	2	3	-	-	-
CO2	3	2	1	1	1	1	1	3	-	-	-
CO3	3	3	3	1	1	1	1	3	-	-	-
CO4	3	3	3	1	2	1	1	3	2	2	-
CO5	3	3	3	1	2	1	1	3	1	1	-
	3	2.8	2.6	1.2	1.6	1.2	1.2	3	1.5	1.5	-

Name of the Program: B.COM (HONOURS BUSINESS ANALYTICS)											
BUSINESS ANALYTICS								Course Code: HBA354			
Semester: III								Year: II			
Academic Year: 2020-21								Batch: 2019-22			
	Program Outcomes								PSO		
COs/POs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3
CO1	3	3	3	3	2	2	2	3	3	3	1
CO2	3	3	3	3	2	2	2	3	3	3	1
CO3	3	3	3	3	2	2	2	3	3	3	1
CO4	3	3	3	3	2	2	2	3	3	3	1
CO5	3	3	3	3	2	2	2	3	3	3	1
	3	3	3	3	2	2	2	3	3	3	1

Name of the Program: B.COM (HONOURS BUSINESS ANALYTICS)											
MANAGEMENT INFORMATION SYSTEM								Course Code: HBA356			
Semester: III								Year: II			
Academic Year: 2020-21								Batch: 2019-22			
	Program Outcomes								PSO		
COs/POs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3
CO1	2	1	1	2	2	1	2	2	3	2	2
CO2	2	3	3	3	3	1	2	2	2	2	2
CO3	2	2	2	1	2	2	2	1	2	1	1
CO4	3	3	2	2	2	2	1	3	2	1	2
CO5	3	3	3	3	2	2	3	3	2	3	3
	2.4	2.4	2.2	2.2	2.2	1.6	2	2.2	2.2	1.8	2

Name of the Program: B.COM (HONOURS BUSINESS ANALYTICS)											
CORPORATE ACCOUNTING								Course Code: HBA451			
Semester: IV								Year: II			
Academic Year: 2020-21								Batch: 2019-22			
	Program Outcomes								PSO		
COs/POs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3

CO1	3	3	3	1	2	1	1	3	3	-	1
CO2	3	3	3	1	2	1	2	2	3	-	-
CO3	3	3	3	1	-	1	1	3	3	-	-
CO4	3	3	3	1	-	1	1	3	3	-	-
CO5	3	3	3	1	1	-	2	3	3	-	-
	3	3	3	1	1.67	1	1.4	2.8	3	-	1

Name of the Program: B.COM (HONOURS BUSINESS ANALYTICS)											
AUDITING						Course Code: HBA452					
Semester: IV						Year: II					
Academic Year: 2020-21						Batch: 2019-22					
	Program Outcomes								PSO		
COs/POs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3
CO1	3	3	3	3	3	3	3	3	3	3	3
CO2	3	3	3	3	3	3	3	3	3	3	3
CO3	3	3	3	3	3	3	3	3	3	3	3
CO4	3	3	3	3	3	3	3	3	3	3	3
CO5	3	3	3	3	3	3	3	3	3	3	3
	3	3	3	3	3	3	3	3	3	3	3

Name of the Program: B.COM (HONOURS BUSINESS ANALYTICS)											
RESEARCH METHODOLOGY						Course Code: HBA453					
Semester: IV						Year: II					
Academic Year: 2020-21						Batch: 2019-22					
	Program Outcomes								PSO		
COs/POs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3
CO1	3	2	1	2	2	0	3	3	3	2	1
CO2	2	3	3	2	3	1	3	1	3	2	2
CO3	3	3	3	3	1	1	3	1	3	2	3
CO4	2	3	1	1	2	1	2	2	3	2	3
CO5	3	3	2	3	2	3	3	3	3	2	3
	2.6	2.8	2	2.2	2	1.2	2.8	2	3	2	2.4

Name of the Program: B.COM (HONOURS BUSINESS ANALYTICS)											
BUSINESS SIMULATION						Course Code: HBA454					
Semester: IV						Year: II					
Academic Year: 2020-21						Batch: 2019-22					
	Program Outcomes								PSO		
COs/POs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3
CO1	2	2	3	2	1	1	2	1	2	2	1
CO2	2	2	2	3	1	1	2	1	2	2	1
CO3	2	2	2	3	1	1	3	1	3	3	2
CO4	2	2	2	3	1	1	3	1	2	3	3
CO5	2	2	2	3	1	1	3	1	2	3	3
	2	2	2.2	2.8	1	1	2.6	1	2.2	2.6	2

Name of the Program: B.COM (HONOURS BUSINESS ANALYTICS)											
DATA ANALYTICS USING R								Course Code: HBA455			
Semester: IV								Year: II			
Academic Year: 2020-21								Batch: 2019-22			
	Program Outcomes								PSO		
COs/POs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3
CO1	0	1	3	3	1	0	2	3	3	3	0
CO2	3	3	3	3	1	0	2	3	3	3	1
	1.5	2	3	3	1	0	2	3	3	3	0.5

Name of the Program: B.COM (HONOURS BUSINESS ANALYTICS)											
E-COMMERCE & DIGITAL MARKETING								Course Code: HBA456			
Semester: IV								Year: II			
Academic Year: 2020-21								Batch: 2019-22			
	Program Outcomes								PSO		
COs/POs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3
CO1	3	3	3	2	2	2	2	2	2	2	2
CO2	1	1	3	2	1	3	1	1	1	2	1
CO3	3	1	2	3	2	2	1	1	2	2	2
CO4	2	1	2	3	1	3	1	1	1	1	1
CO5	3	1	1	2	2	1	1	1	2	1	2
	2.4	1.4	2.2	2.4	1.6	2.2	1.2	1.2	1.6	1.6	1.6

Name of the Program: B.COM (HONOURS BUSINESS ANALYTICS)											
COST AND MANAGEMENT ACCOUNTING								Course Code: HBA551			
Semester: V								Year: II			
Academic Year: 2021-2022								Batch: 2019-22			
	Program Outcomes								PSO		
COs/POs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3
CO1	3	3	2	2	1	1	1	1	2	2	1
CO2	3	3	2	2	1	1	1	1	2	2	1
CO3	3	3	2	2	1	1	1	1	2	2	1
CO4	3	3	2	2	1	1	1	1	2	2	1
CO5	3	3	2	2	1	1	1	1	2	2	1
	3	3	2	2	1	1	1	1	2	2	1

Name of the Program: B.COM (HONOURS BUSINESS ANALYTICS)											
MERCANTILE LAW								Course Code: HBA552			
Semester: V								Year: II			
Academic Year: 2021-2022								Batch: 2019-22			
	Program Outcomes								PSO		
COs/POs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3
CO1	3	2	2	2	2	1	2	3	3	2	1
CO2	3	3	3	2	2	2	1	3	3	3	2

CO3	3	3	3	2	1	2	1	2	3	2	1
CO4	3	3	3	2	2	2	2	2	3	2	1
CO5	3	3	3	2	1	1	1	2	3	2	2
	3	2.8	2.8	2	1.6	1.6	1.4	2.4	3	2.2	1.4

Name of the Program: B.COM (HONOURS BUSINESS ANALYTICS)											
BUSINESS FORECASTING								Course Code: HBA553			
Semester: V								Year: II			
Academic Year: 2021-2022								Batch: 2019-22			
	Program Outcomes								PSO		
COs/POs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3
CO1	2	3	3	3	2	1	2	2	3	3	1
CO2	3	2	1	3	2	1	2	2	3	3	1
CO3	3	3	3	3	2	1	2	2	3	3	1
CO4	3	3	3	3	2	1	2	2	3	3	1
CO5	3	3	3	3	2	1	2	2	3	3	1
	2.8	2.8	2.6	3	2	1	2	2	3	3	1

Name of the Program: B.COM (HONOURS BUSINESS ANALYTICS)											
APPLICATIONS OF BUSINESS ANALYTICS								Course Code: HBA554			
Semester: V								Year: II			
Academic Year: 2021-2022								Batch: 2019-22			
	Program Outcomes								PSO		
COs/POs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3
CO1	3	3	3	2	1	1	1	2	3	3	1
CO2	2	3	3	2	1	1	1	2	3	3	1
CO3	2	3	3	2	1	1	1	2	3	3	1
CO4	3	3	3	2	1	1	1	2	3	3	1
CO5	3	3	3	2	1	1	1	2	3	3	1
	2.6	3	3	2	1	1	1	2	3	3	1

Name of the Program: B.COM (HONOURS BUSINESS ANALYTICS)											
FINANCIAL STATEMENT ANALYSIS								Course Code: HBA651			
Semester: VI								Year: III			
Academic Year: 2021-2022								Batch: 2019-22			
	Program Outcomes								PSO		
COs/POs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3
CO1	3	3	2	2	1	1	1	1	2	2	1
CO2	3	3	2	2	1	1	1	1	2	2	1
CO3	3	3	2	2	1	1	1	1	2	2	1
CO4	3	3	2	2	1	1	1	1	2	2	1
CO5	3	3	2	2	1	1	1	1	2	2	1
	3	3	2	2	1	1	1	1	2	2	1

Name of the Program: B.COM (HONOURS BUSINESS ANALYTICS)											
PROJECTREPORTANDVIVAVOCE								Course Code: HBA652			
Semester: VI								Year: III			
Academic Year: 2021-2022								Batch: 2019-22			
Program Outcomes								PSO			
COs/POs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3
	3	2.75	2.75	1.5	2.75	1.5	2.5	3	3	2.75	1

Name of the Program: B.COM (HONOURS BUSINESS ANALYTICS)											
BUSINESS INTELLIGENCE AND DATA VISUALISATION								Course Code: HBA653			
Semester: VI								Year: III			
Academic Year: 2021-2022								Batch: 2019-22			
Program Outcomes								PSO			
COs/POs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3
CO1	3	3	3	3	3	2	2	2	3	3	1
CO2	3	3	3	3	3	2	2	2	3	3	1
CO3	3	3	3	3	3	2	2	2	3	3	1
CO4	3	3	3	3	3	2	2	2	3	3	1
CO5	3	3	3	3	3	2	2	2	3	3	1
	3	3	3	3	3	2	2	2	3	3	1

Name of the Program: B.COM (HONOURS BUSINESS ANALYTICS)											
BUSINESS ANALYTICS PROGRAMMING								Course Code: HBA654			
Semester: VI								Year: III			
Academic Year: 2021-2022								Batch: 2019-22			
Program Outcomes								PSO			
COs/POs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3
CO1	3	3	3	3	2	2	2	3	3	3	1
CO2	3	3	3	3	2	2	2	3	3	3	1
CO3	3	3	3	3	2	2	2	3	3	3	1
CO4	3	3	3	3	2	2	2	3	3	3	1
CO5	3	3	3	3	2	2	2	3	3	3	1
	3	3	3	3	2	2	2	3	3	3	1

Name of the Program: B.COM (HONOURS BUSINESS ANALYTICS)											
HUMAN RESOURCE MANAGEMENT								Course Code: HBA655			
Semester: VI								Year: III			
Academic Year: 2021-2022								Batch: 2019-22			
Program Outcomes								PSO			
COs/POs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3
CO1	3	2	2	2	3	3	3	3	3	3	3
CO2	3	2	2	2	3	3	3	3	3	3	3
	3	2	2	2	3	3	3	3	3	3	3

Program Targets

Sem	Course	Program Outcomes								Program Specific Outcomes		
		PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3
I	English I (I/I)	0.00	0.00	0.00	0.00	3.00	2.50	3.00	3.00	0.00	0.00	2.25
I	Environmental Science	0.00	1.00	2.00	2.00	1.00	3.00	2.00	2.50	0.00	1.00	2.00
I	Financial Accounting-I	3	2.4	1.6	1.4	1.67	1.67	2	2.6	3	2.6	1
I	Managerial Economics	2.6	2.6	2.4	2.2	1.6	1	2	3	3	1	1.33
I	Principles of Marketing	3	1.4	2	2	1.2	1.8	1.2	3	3	1	1
I	Business Mathematics	3	3	2.8	1.8	1.4	1	2	3	2.8	2.6	1.67
I	Information Technology for Business Analytics	2	2.25	2.25	2.4	2.6	1.75	2	1.6	3	2.8	1.5
II	English II (I/II)	0.00	0.00	0.00	0.00	3.00	2.75	3.00	3.00	0.00	0.00	2.00
II	Gender Sensitisation	0.00	1.50	1.00	1.50	1.00	3.00	1.50	2.50	0.00	1.00	3.00
II	Financial Accounting-II	3	2.6	2.2	2	1.4	3	2.2	2.2	3	1.2	2.5
II	Business Organization and Management	3	2	1	2	1	2	1.6	2	3	1	2
II	Data Analytics with excel	2.33	2.6	2.6	3	2.2	1	1.8	1	3	2.8	1
II	Business Statistics-I	3	2.2	2	1.2	1.6	1.2	1.2	3	3	2.2	1
II	Financial System	3	2	1	1	1	1	1	3	3	1.8	1
III	Advanced Accounting	3	3	3	1.2	2.25	1.33	1.67	2.8	3	2	1
III	Income Tax	3	2.8	2.8	2	1.6	1.6	1.4	2.4	3	2.2	1.4
III	Business Statistics-II	3	2.8	2.6	1.2	1.6	1.2	1.2	3	1.5	1.5	-
III	Business Analytics	3	3	3	3	2	2	2	3	3	3	1
III	Management Information System	2.4	2.4	2.2	2.2	2.2	1.6	2	2.2	2.2	1.8	2

IV	Corporate Accounting	3	3	3	1	1.67	1	1.4	2.8	3	-	1
IV	Auditing	3	3	3	3	3	3	3	3	3	3	3
IV	Research Methodology	2.6	2.8	2	2.2	2	1.2	2.8	2	3	2	2.4
IV	Business Simulation	2	2	2.2	2.8	1	1	2.6	1	2.2	2.6	2
IV	Data Analytics using R	1.5	2	3	3	1	0	2	3	3	3	0.5
IV	E-Commerce & Digital Marketing	2.4	1.4	2.2	2.4	1.6	2.2	1.2	1.2	1.6	1.6	1.6
V	Cost and Management Accounting	3	3	2	2	1	1	1	1	2	2	1
V	Mercantile Law	3	2.8	2.8	2	1.6	1.6	1.4	2.4	3	2.2	1.4
V	Business Forecasting	2.8	2.8	2.6	3	2	1	2	2	3	3	1
V	Applications of Business Analytics	2.6	3	3	2	1	1	1	2	3	3	1
VI	Financial Statement Analysis	3	3	2	2	1	1	1	1	2	2	1
VI	Project report & Viva Voce	3	2.75	2.75	1.5	2.75	1.5	2.5	3	3	2.75	1
VI	Business Intelligence and Data Visualisation	3	3	3	3	3	2	2	2	3	3	1
VI	Business Analytics Programming	3	3	3	3	2	2	2	3	3	3	1
VI	Human Resource Management	3	2	2	2	3	3	3	3	3	3	3
Target Average		2.45	2.33	2.21	1.97	1.79	1.67	1.87	2.39	2.45	2.05	1.53

Program Attainments

Sem	Course	Program Outcomes								Program Specific Outcomes		
		PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3
I	English I (I/I)	0.00	0.00	0.00	0.00	3.00	2.50	3.00	3.00	0.00	0.00	2.25
I	Environmental Science	0.00	1.00	2.00	2.00	1.00	3.00	2.00	2.50	0.00	1.00	2.00
I	Financial Accounting-I	3	2.4	1.6	1.4	1.67	1.67	2	2.6	3	2.6	1
I	Managerial Economics	2.6	2.6	2.4	2.2	1.6	1	2	3	3	1	1.33
I	Principles of Marketing	3	1.4	2	2	1.2	1.8	1.2	3	3	1	1
I	Business Mathematics	3	3	2.8	1.8	1.4	1	2	3	2.8	2.6	1.67
I	Information Technology for Business Analytics	2	2.25	2.25	2.4	2.6	1.75	2	1.6	3	2.8	1.5
II	English II (I/II)	0.00	0.00	0.00	0.00	3.00	2.75	3.00	3.00	0.00	0.00	2.00
II	Gender Sensitisation	0.00	1.50	1.00	1.50	1.00	3.00	1.50	2.50	0.00	1.00	3.00
II	Financial Accounting-II	3	2.6	2.2	2	1.4	3	2.2	2.2	3	1.2	2.5
II	Business Organization and Management	3	2	1	2	1	2	1.6	2	3	1	2
II	Data Analytics with excel	2.33	2.6	2.6	3	2.2	1	1.8	1	3	2.8	1
II	Business Statistics-I	3	2.2	2	1.2	1.6	1.2	1.2	3	3	2.2	1
II	Financial System	3	2	1	1	1	1	1	3	3	1.8	1
III	Advanced Accounting	3	3	3	1.2	2.25	1.33	1.67	2.8	3	2	1
III	Income Tax	3	2.8	2.8	2	1.6	1.6	1.4	2.4	3	2.2	1.4
III	Business Statistics-II	3	2.8	2.6	1.2	1.6	1.2	1.2	3	1.5	1.5	-
III	Business Analytics	3	3	3	3	2	2	2	3	3	3	1

III	Management Information System	1.60	1.60	1.47	1.47	1.47	1.07	1.33	1.47	1.47	1.20	1.33
IV	Corporate Accounting	3	3	3	1	1.67	1	1.4	2.8	3	-	1
IV	Auditing	3	3	3	3	3	3	3	3	3	3	3
IV	Research Methodology	2.6	2.8	2	2.2	2	1.2	2.8	2	3	2	2.4
IV	Business Simulation	2	2	2.2	2.8	1	1	2.6	1	2.2	2.6	2
IV	Data Analytics using R	1.5	2	3	3	1	0	2	3	3	3	0.5
IV	E-Commerce & Digital Marketing	2.4	1.4	2.2	2.4	1.6	2.2	1.2	1.2	1.6	1.6	1.6
V	Cost and Management Accounting	3	3	2	2	1	1	1	1	2	2	1
V	Mercantile Law	3	2.8	2.8	2	1.6	1.6	1.4	2.4	3	2.2	1.4
V	Business Forecasting	0.93	0.93	0.87	1	0.67	0.33	0.67	0.67	1	1	0.33
V	Applications of Business Analytics	2.6	3	3	2	1	1	1	2	3	3	1
VI	Financial Statement Analysis	3	3	2	2	1	1	1	1	2	2	1
VI	Project report & Viva Voce	3	2.75	2.75	1.5	2.75	1.5	2.5	3	3	2.75	1
VI	Business Intelligence and Data Visualisation	2	2	2	2	2	1.33	1.33	1.33	2	2	0.67
VI	Business Analytics Programming	2	2	2	2	1.33	1.33	1.33	2	2	2	0.67
VI	Human Resource Management	3	2	2	2	3	3	3	3	3	3	3
Target Average		2.31	2.19	2.07	1.83	1.68	1.60	1.77	2.28	2.31	1.91	1.47

Gap

	Program Outcomes								Program Specific Outcomes		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3
Program Target	2.45	2.33	2.21	1.97	1.79	1.67	1.87	2.39	2.45	2.05	1.53
Attainment matrix	2.31	2.19	2.07	1.83	1.68	1.6	1.77	2.28	2.31	1.91	1.47
Gap	0.14	0.14	0.14	0.14	0.11	0.07	0.1	0.11	0.14	0.14	0.06