

DEPARTMENTOFBUSINESSADMINISTRATION

Session: 2023 - 2026

Autonomy Syllabus

Course – BBA

Stream – BBA BA

Full Syllabus

Preamble

The Bachelor of Business Administration (BBA) is a three year degree Program including Summer Internship Program. These courses are spread over six semesters. The students are also holistically taught and trained through the concept of Integrated Learning Programme, involving class room sessions, Group Discussions, Mock tests, Interviews designed and executed by Academicians and Industry experts. Domain knowledge and soft skills are rigorously included in the learning sessions comprises of courses related to Economics, Entrepreneurship, Communication, Statistics, Psychology, Operation research, Law as general subjects to learn. Apart from learning these subjects in first 2 years (4 semesters), students shall learn the specialization subjects with respect to Marketing, Human Resource, Finance in final year(5th and 6th semester). An aspirant can acquire knowledge in connection with business issues and can equip themselves to solve business problems. The course can also prepare them better for efficient and effective decisions. The course is aimed to create better leader for future.

Program Objectives

Broader objective of Bachelor of Business Administration Programme are

- 1. Students will gain in-depth knowledge about changing business environment across different industries.
- 2. Students will be able to handle different tools of decision making and problem solving methods in the context of commercial organization.
- 3. Students will be industry ready by using different techniques of problem solving approach of commercial organization.
- 4. Students will be able to assess the relevance of investment in several domain areas of business.
- 5. Students will be able to connect different concepts of marketing, human resource and finance in business.
- 6. Students will be able to understand optimum value of utilizing non-monetary resources to achieve prosperity of an organization.
- 7. Students will be able to assess the role and value of several functional areas of an organization for enhancing efficiency.

Students will be able to understand qualitative perspectives of coordination and cooperation to build an effective team.

Program Outcomes

Name of the Program Outcome	Program Outcome	Competencies	Performance Indicator	
	Students will	1.1. Demonstrate competencies in Business	1.1.1. Ability to take up analytical approach for problem solving,	
PO1: Assessment of Choices	develop the capability to assess alternate managerial choices and come up with optimal	Construction Model & Decision- Making Model	1.1.2. Ability to take into consideration minute details and factors that influences a business.	
	solutions.	1.2. Demonstrate competencies in evaluation of each of the alternatives	1.2.1 Ability to weigh the pros and cons of each of the alternatives or options available to a functional area of a business.	
PO2: Identification of the Nature of a Problem Area	Students will be able to apply their conceptual understanding of marketing, finance	2.1. Demonstrate an ability to identify an area that requires problem solving.	2.1.1. Ability to contribute towards problem solving methods.	

	and human resources in the real world.		2.1.2. Understanding a problem or issues belong to which of the specialized areas- Finance, HR or marketing.	
		2.2 Demonstrate an ability to assess the business environment and understand their impact on the business.	2.2.1. To be able to identify the different factors that influence the business.	
	Students will	3.1. To be able to demonstrate the different	3.1.1. Capability of implementation of a decision after proper assessment.	
PO3: Decision Making Skills	develop decision making skills with the help of analytical and critical thinking	aspects that can get influenced by the decision taken within the business.	3.1.2. Follow up the changes that are occurring due to the implementation (situation analysis methods can be of use)	
	ability.	3.2. To be able to demonstrate the optimal solution or close to an optimal solution to a given managerial problem.	3.2.1 Reaching to a solution and evaluating it after observing the changes (Case study method can be implemented)	
	Communication	4.1. To Demonstrate the ability to make effective	4.1.1. Ability to choose appropriate words when making verbal communication,	
PO4: Communication Skills	skills will be enhanced in Synchronization with the functioning of the business analytics	business communication.	4.1.2. To be able to select proper language and words when making written communication.	
	algorithms.	4.2. To Demonstrate the ability to pursue stakeholders and enhancing the convincing skills.	4.2.1. Ability to present oneself groomed properly and uses formal gestures with appropriate body language.	
PO5: Team Work	Students will develop the capability of functioning efficiently within	5.1. To understand Group Formation and Group Cohesiveness	5.1.1. Ability to understand the objective of the group and deciding a common goal.	

	the teams.	5.2. To be able to demonstrate the importance of adjustment and the importance of concentrating other group members' opinion.	5.2.1. The ability to apply the behavioral science when functioning within the group.		
		6.1. Demonstration of the ability to identify gaps in a business strategy, and to	6.1.1. Continuation of Professional development and observation skills,		
PO6:	Students will be able to integrate functional areas of management for	be able to close these gaps.	6.1.2. Using rational approach towards an issue.		
Integration of Functions	planning, implementation and control of business decisions.	6.2 Demonstrate the identification of changing trends in a business and	6.2.1. Ability to study the changes in preferences of customers and		
		operation of the functional areas accordingly.	6.2.2. Study in the changes in political & technological environment.		
		7.1. Demonstrating the ability to identify the	7.1.1. Acknowledgement of the existence of a problem.		
PO7: Deployable Skill set	Students will develop deployable skills parallel to the chosen functional/ specialized area.	nature of a problem appearing during the course of business.	7.1.2. Deciding the overall nature of the problem and its minor details.		
		7.2. Demonstrating the ability to apply the learned skill set as when required.	7.2.1. Ability to implement the required knowhow as when necessity arises.		
PO8: Moral Sensitivity	Students will develop the capability to demonstrate increased level of	8.1. To Demonstrate the ability to identify that there is a moral dilemma.	8.1.1. The ability to identify the confusion or the dilemma that is in existence.		

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sensitivity towards areas that require ethical and moral addressing during the course of business.	8.2. Demonstration of the ability to solve the moral dilemma.	8.2.1. Ability to select the best path that will serve to a bigger interest of the stakeholders and the society.

Sem 1 (2023-27 session):

Sl.	Subject	Codo	Cubicat Nama		Cre	dits	Total
51.	Type	Code	Subject Name	L	Т	P	Credits
1.	CC	BBABB101	Principles of Management	3	1	0	4
2.	CC	BBABB102	Micro Economics	Micro Economics 5 1 0		0	6
3.	CC	BBABB103	Business Mathematics	3	1	0	4
4	CC	BBABB104	Business Statistics	3	1	0	4
5	AE	BBABB105	Business Communication	3	1	0	4
6	SE	BBABB106	Fundamental of Computer Applications	2	0	0	4
7	AE	BBAESP101	General Studies & Current Affairs - I	2	0	1	2
8	SE	BBASDP181	Competitive Aptitude Training - I	2	0	0	1
		Total Credit					29

Sl.	Subject Type	Code	Subject Name	Credit/Point/Number
1.	Pr.	IFC	Industry & Foreign Certification (IFC)	At least 3 certificates need to be earned in each semester. Total min 15 certificates required in 3 years program. For 4 years min 20 certificates are required.
2.	Pr.	MAR	Mandatory Additional Requirements (MAR)	As per University norms. 75 points for 3 years and 100 points for 4 years program.
3.	Pr.	MOOCs	At least 1 MOOCs course from Swayam Platform	15 credits need to be earned in 3 years program. 20 credits need to be earned in 3 years program

Sem 3 (2022-2025 sessions)

Sl.	Subject		Cubicat Name	Credits			Total
51.	Туре	Code	Subject Name	L	Т	P	Credits
1.	CC	BBABB301	Business Research Methods	3	1	0	4
2.	CC	BBABB302	Financial Accounting	3	1	0	4
3.	CC	BBABB303	Marketing Management	5	1	0	6
4	CC	BBABB304	Employability and Practitioners Skill	3	1	0	4
5	CC	BBABB305	Business Ethics	3	1	0	4
6	CC	BBABB306	Fundamental of Cost Accounting	3	1	0	4
7	CC	BBABB387	Project on Entrepreneurship	0	0	1	1
8	AE	BBA(GS)301	General Studies & Current Affairs - III	2	0	1	2
9	SE	BBA(GS)381	Competitive Aptitude Training – III	2	0	0	1
		Total Credit					30

Sl.	Subject Type	Code	Subject Name	Credit/Point/Number
1.	Pr.	IFC	Industry & Foreign Certification (IFC)	At least 3 certificates need to be earned in each semester. Total min 15 certificates required in 3 years program
2.	Pr.	MAR	Mandatory Additional Requirements (MAR)	As per University (MAKAUT) norms
3.	Pr.	MOOCs	At least 1 MOOCs course from Swayam Platform	15 credits need to be earned in 3 years program

Sem5 (2021-2024 session):

Sl.	Subject	Code			redit	Total	
	Type		Name	L	T	P	Credits
1.	CC	BBABB501	Strategic Management	3	1	0	4
2.		BBABB502	Data Analytics Skills for Managers	3	1	0	4
3.		BBABB503	Business Laws	2	0	0	2
4.	Major	BBABA504	Programming in Python	3	1	0	4
		BBABA591	Programming in Python-Practical	0	0	2	2
5.	Major	BBABA505	Data Visualisation	3	1	0	4
		BBABA592	Data Visualisation-Practical	0	0	2	2

6.	Major	BBABA506	Business Forecasting Techniques 5 0 1				6
5.	IVAMNCC	BBA(GS)501	General Studies & Current Affairs - V	2	0	0	2
6	IVAMNCC	BBA(GS)581	Competitive Aptitude Training - V	2	0	0	1
7	IVAMNCC	BBABA581	Project V	0	0	2	1
	Total Credit						

SI.	Subject Type	Code	Subject Name	Credit/Point/Number
1.		IFC	Industry & Foreign Certification (IFC)	At least 3 certificates need to be earned in each semester. Total min 15 certificates required in 3 years program
2.		MAR	Mandatory Additional Requirements (MAR)	As per University (MAKAUT) norms
3.	MOOCs 5	MOOCs	At least 1 MOOCs course from Swayam Platform	15 credits need to be earned in 3 years program

DETAILED SYLLABUS

Subject code		BBABB101					
Subject title	Principles of Management					ent	
Scheme and Credits	L	Т	P	S	Credits	Semester-	
	5	1	0		6	I	
Pre-requisite (if any)					Nil		

Course Objectives:

- 1. To enable the students to study the evolution of Management,
- 2. To study the functions and principles of management.
- 3. To learn the application of the principles in an organization.
- 4. To enable the effective and barriers communication in the organization

Course Outcome:

- 1. Students will be able to understand the fundamental concept of Management and its importance in the practical world
- 2. Students will be able to identify, define and solve Management related problems
- 3. Students will understand the contemporary issues and will get some wider exposure with respect to the global perspective

Course content:

Modules	Serial of Modules	Text Book as per	BL
		Syllabus	
Management :	Definition of Management : Its	1. Essentials of	BL1,
Science and	Nature & Purpose, Managing:	Management An	BL2
Theory,	Science or Art, The Evolution	International and	
Management :	of Management Thought	Leadership	
Process	The Functions of Management,	Perspective : Harold	
	Managerial Functions at	Koontz and Heinz	
	Different Organizational	Weihrich, Edition-	

	Levels, Managerial Skills The Managerial Roles Approach – Interpersonal Roles, Informational Roles, Decisional Roles	3.		
Essentials of Planning and Management by Objectives, Strategies, Decision Making	Concept, Types of Plans, Steps in Planning, Objectives – The nature of objectives, how to set objectives, The Strategic Planning Process, The Portfolio Matrix: A Tool For Allocating Resources, The Importance and Limitations of Rational Decision Making, Development of Alternatives and Limiting Factor, Evaluation of Alternatives, Selecting an Alternative	2.	Essentials of Management An International and Leadership Perspective: Harold Koontz and Heinz Weihrich, Edition- ninth, McGraw Hill Ramaswami T; Principles of Mgmt., Himalaya Publishing Chandan, JS: Management — Concepts and Strategies, Vikas Publishing	BL2, BL3, BL4
The Nature of Organizing and Reengineering, Line/ Staff	Formal and Informal Organization Organizational Division: The Department, Organizational Level and Span of Management, Brief concept	1.	Essentials of Management An International and Leadership Perspective: Harold	BL3, BL4, BL5

Authority and	of Reengineering		Koontz and Heinz	
Decentralization	Line/ Staff Concepts And		Weihrich, Edition-	
	Functional Authority,		ninth, McGraw Hill	
	Concept of Centralization			
	and Decentralization			
	An Early Behavioural Model:	1.	Essentials of	BL2,
	Mc.Gregor's Theory X and Y,		Management An	BL3,
Motivation,	Maslow's Hierarchy of Needs		International and	BL4,
Leadership,The	Theory, Herzberg's		Leadership	BL5
System and Process of	Motivation-Hygiene Theory,		Perspective : Harold	
Controlling, Managing	The Expectancy Theory of		Koontz and Heinz	
Change	Motivation – The Vroom		Weihrich , Edition-	
	Theory and Practice, Defining		ninth, McGraw Hill	
	Leadership, Approaches –	2.	Robbins, SP:	
	Trait Approaches to	۷.	Management, Prentice Hal	
	Leadership, Situation or			
	Contingency Approaches to		Trendice Trai	
	Leadership – Fedler's			
	Contingency Approach to			
	Leadership, Transactional and			
	Transformational Leadership			
	The Basic Control Process,			
	Benchmarking, Control as a			
	Feedback System, Real Time			
	Information and Control Feed-			
	forward and Preventive			
	Control, The Balanced			
	Scorecard, Concept of Gantt			
	Chart, PERT			
	Techniques for Initiating			
	Change, Resistance to Change,			

Lewin's Change Management	
Model	

Recommended Books:

- 1. Essentials of Management An International and Leadership Perspective : Harold Koontz and Heinz Weihrich , Edition- ninth, McGraw Hill.
- 2. V.S.P Rao&Hari Krishna: Management-Text &Cases,Excel Books
- 3. Ramaswami T; Principles of Mgmt., Himalaya Publishing Chandan, JS: Management Concepts and Strategies, Vikas Publishing
- 4. Robbins, SP: Management, Prentice Hal

CO-PO Mapping:

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8
BBABB101- CO1			2		2	3		3
BBABB101- CO2			3		2	2		3
BBABB101-CO3			2		3	2		3
BBABB101-CO4			2		3	2		3

3= Strong 2=Average 1=Weak (Kindly mention the Number only)

Subject code	BBA	BBABB102				
Subject title	Mic	Micro Economics				
Scheme and Credits	L	Т	P	S	Credits	Semester-
	5	1	0		6	I
Pre-requisite (if any)	Basic knowledge of mathematical function, differentiation					

- 1. To enable the students to understand fundamental concepts, terms and terminologies involved in micro economics
- 2. Through the incorporation of case lets/case studies, familiarize the students with real economic scenarios.
- 3. To make students understand the different types of markets and its equilibrium level of price and quantity determination process.

Course Outcome:

- **CO 1**: Students would be able to understand the fundamental problems of a business economics and it's solutions techniques. They also able to understand the driving force behind the change in market price of commodity and its elasticity of demand.
- **CO 2:**Students would be able to understand the economies and diseconomies of scale in production and the different types of costs associated with the production process.
- **CO 3:**Students would be able to understand the different types of markets and its equilibrium level of price and quantity determination process under perfect competition, monopoly, monopolistic competition and oligopolymarket.
- **CO 4:** Students would be able to understand the different types of factors of productions and their prices.

Course content:

Modules	Topic	Text Books Per Syllabus	Total hours of teaching	Blooms Level
M-1:	The Economic Problem: Scarcity and Choice -	Advanced Economic		BL1
	Introduction- The Problem Of Scarcity And Choice-	Theory:		BL2
	Scarcity Of Resources And The Problem Of Choice-	Microecon		BL3
	Kinds Of Resources-Types Of Output-Basic Questions	omic		BL4
And (And Central Problems Of An Economy- What To	Analysis by		BL5
	Produce-How To Produce :Choice Of Technique Of	Dr H. L.		
	Production-For Whom To Produce: How To Distribute	Ahuja, S.ChandPu		

Output?-What Provision Should Be Made For Economic Growth? What, How, And For Whom: Subject Matter Of Microeconomics-=Choice And Opportunity Cost-Production Possibility Frontier Or Curve- The Law Of Increasing Opportunity Cost-Scarcity, Choice, And Production Possibility Curve- Unemployment And PPF-Productive Inefficiency-Allocative Efficiency: Right – Mix Of Goods- Economic Growth And Production Possibility Curve-Capital Formation And Economic Growth.

Basic Mathematical Concepts: Introduction. Functions. Slopes of Functions. Concept of Derivatives. Rules of Differentiation.

Demand and Supply: Introduction-Market And Competition -Utility And Demand-The Meaning Of Demand And Quantity Demanded-The Law Of Demand-Demand Schedule And Demand Curve- CetericPeribus Assumption-Derivation Of Market Demand-Market Demand Curve-Reasons For The Law Of Demand-Why Does Demand Curve Generally Slopes Downward?-Exceptions To The Law Of Demand-Factors Determining Demand- Movement Along A Demand Curve And Shifts In Demand Curve- Movement Along The Demand Curve: Extension And Contraction Of Demand- Shifts In The Demand Curve: Increase And Decrease In Demand-Conclusion-Demand Function And Demand Curve -Deriving Market Demand Function-Supply And Supply Function-The Meaning Of Supply-Supply Function-The Relationship Between Price And Quantity Supplied: Law Of Supply-Explanation Of The Law Of Supply.

Elasticities Of Demand: Various Concepts Of Demand Elasticity-Price Elasticity Of Demand-Price Elasticity Of Demand For Different Goods Varies A Good Deal-Measurement Of Price Elasticity- Mid- Point Method-Calculating Percentage Changes – Arc Elasticity Of Demand - Cross And Income Elasticity Of Demand-Some Numerical Problems Of Elasticity Of Demand.

Consumer's Behaviour:Introduction. The Budget Constraints. The Concept of Utility: Total and Marginal Utility. Law of Diminishing Marginal Utility. Consumer's Equilibrium: Principle of Equi-marginal Utility. Derivation of Downward Sloping Demand Curve with Marginal Utility Analysis. Consumer Surplus (Concepts Only).

blication(F or Basic Mathemati cal Concepts)

Ch- 5

Principles of Micro Economics by H L Ahuja. S. Chand Publication

Ch-1,5,7,9,1 1

M-2:	Indifference Curve Analysis of Demand: Assumptions about Consumer Preferences: Indifference Curve Approach. What are Indifference Curves? Marginal Rate of Substitution. Principle of Diminishing Marginal Rate of Substitution. Properties of Indifference Curves. Budget Line or Budget Constraint. Shifts in Budget Line. Consumer's Equilibrium: Maximising Satisfaction. Consumer's Equilibrium. Income Effect: Income Consumption Curve. Production Function: Introduction. Production	Principles	BL1
141-2.	Function. Law of Variable Proportions: Three Stages of Production. Causes of Diminishing Returns to a factor. Isoquants. Marginal Rate of Technical Substitution. Returns to Scale: Increasing Returns to Scale; Constant Returns to Scale; Decreasing Returns to Scale. Expansion Path (Concepts Only). Theory of Costs: The Concepts of Cost: Accounting Costs and Economic Costs; Opportunity Cost; Sunk Costs. Short Run and Long Run Defined. Short Run and Long Run. Total, Fixed and Variable Costs in the Short Run. The Short-Run Average and Marginal Cost Curves. Theory of Long-Run Costs: Long-Run Average Cost Curve. Why Long-Run Average Cost Curve is of U-Shape? Economies of Scale. Internal Diseconomies of Scale.	of Micro Economics by H. L.Ahuja. S. Chand Publication s. Ch-17, 18, 20	BL2 BL3 BL4 BL5
M-3	The Theory Of Firm And Pricing In Perfect Competition: i) Market Structure And Concepts Of Revenue- Meaning Of Market-Classification Of Market Structures: Perfect Competition, Monopoly, Monopolistic, Oligopoly-Concepts Of Average Revenue (AR) And Marginal Revenue (MR)-AR And MR Under Perfect Competition-Relationships Between AR And MR Curves. ii) Equilibrium Of The Firm Under Perfect Competition: Meaning And Conditions Of Perfect Competition-The Demand Curve Of A Product Facing A Perfect Competitive Firm-Meaning Of A Firm's Equilibrium- Firm's Equilibrium Under Perfect Competition: MR-MC Approach-Second Order Condition For Equilibrium Of The Firm-Short Run Equilibrium Of The Firm Under Perfect Competition: Maximizing Profits, Maximizing Losses, Deciding To Shut Down- Long Run Equilibrium Of The Firm Under Perfect Competition.	Principles of Micro Economics by H. L.Ahuja. S. Chand Publication s. Ch-21, 23, 26, 27,29, 30.	BL1 BL2 BL3 BL4 BL5

	Monopoly: Monopoly: Its Meaning and Conditions. The Nature of Demand and Marginal Revenue Curves under Monopoly. Price-Output Equilibrium under Monopoly.		
	Price Discrimination: Meaning of Price Discrimination. Degrees of Price Discrimination: Price Discrimination of the First Degree, Price Discrimination of the Second Degree, Price Discrimination of the Third Degree.		
	Monopolistic Competition: Product Differentiation and Monopolistic Competition. Important Features of Monopolistic Competition. Price-Output Equilibrium under Monopolistic Competition. Excess Capacity under Monopolistic Competition (Concepts Only).		
	Oligopoly: Characteristics. Indeterminate Pricing and Output. Price Leadership (Only Meaning and Characteristics). Collusive Oligopoly (Meaning and Characteristics Only). Kinked Demand Curve.		
M-4	Concept of Rent: Introduction. Ricardian Theory of Rent: Scarcity Rent: Rent as Surplus over Cost of Production - Differential Rent. Theory of Interest: Introduction. Classical Theory of Interest. Loanable Funds Theory of Interest. Keynes's Liquidity Preference Theory of Interest.	Principles of Micro Economics by H. L.Ahuja. S. Chand Publication s.	BL1 BL2 BL3 BL4 BL5
	Theory of Profit:Introduction. Innovations and Profits: Schumpeter's Theory of Profits. Risk, Uncertainty and Profits: Knight's Theory of Profits.	Ch-41, 42,43	

BLOOM'S T	AXONOMY	COURSE OUTCOME – Studen	ts will be	e able to
LEVEL 1	REMEMBER	Recall facts andbasic concepts	CO 1	Learn the fundamental
				concepts of
				'microeconomics' &
				'macroeconomics'
LEVEL 2	UNDERSTAND	Explain ideas orconcepts	CO 2	Understand the basic
				concepts of demand-supply,
				cost, production and market
				from microeconomics and
				national income, public
				finance and international
				trade from macroeconomics.
LEVEL 3	APPLY	Use informationlearnt to solve	CO 3	Apply the concepts of
		aproblem		elasticity of demand and
				supply in the business and

				how to take a managerial decision by the firm. Problem solving on theory of costs, production and national income
LEVEL 4	ANALYSE	Understandrelationships, causes and actions	CO 4	Analyze the relevance of change in demand and supply in the market. Nature of the market and its impact. Will be analysed the impact of business cycle, credit creation by the banks and causes of international trade.
LEVEL 5	EVALUATE	Evaluate thecorrectness ofdecision made	CO 5	Evaluate the impact of any strategic decision w.r.t profit of the firm, change in different phases of business cycle.
LEVEL 6	CREATE	Create somethingnew	CO 6	Prepare strategy pertaining to set the price of the product and quantity supply by the firm.

Recommended Study Material:

1. Principles of Micro Economics by H. L. Ahuja. S. Chand Publications.

CO-PO Mapping:

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8
BBABB102-CO1	3	2	3			2	1	
BBABB102-CO2	2	3	3			3	2	
BBABB102-CO3	2	3	2			3	2	
BBABB102-CO4	2	3	2			2	2	

3= Strong 2=Average 1= Weak

PO1: Assessment of Choices	
Students will develop the capability to as	sess alternate managerial choices and come up with
optimal solutions.	
Competency	Indicators
1.1 Demonstrate competencies in	1.1.1. Ability to take up analytical approach for
Business Construction Model &	problem solving,
Decision- Making Model	1.1.2. Ability to take into consideration minute
	details and factors that influences a business.
1.2 Demonstrate competencies in	1.2.1 Ability to weigh the pros and cons of each
evaluation of each of the alternatives	of the alternatives or options available to a
	functional area of a business.

PO 2 : Identification of the Nature of a Pro	hlem Area
Students will be able to apply their conceptual	
human resources in the real world.	a understanding of marketing, manee and
Competency	Indicators
2.1. Demonstrate an ability to identify an	2.1.1 Ability to evaluate problem statement
area that requires problem solving.	and contribute towards problem solving
2.2 Demonstrate an ability to assess the	methods,
business environment and understand their	2.1.2 understanding a problem or issue
impact on the business.	belong to demand analysis.
impact on the business.	2.2.1 To be able to identify the different
	types of demand elasticity which influence
	the decision-making process.
PO 3 : Decision Making Skills	
	with the help of analytical and critical thinking
ability.	with the help of analytical and efficial timiking
Competency	Indicators
3.1 To be able to demonstrate the different	3.1.1 Capability of identify the different
aspects that can get influenced by the	types of costs and production,
decision taken within the business.	3.1.2 Follow up the changes of market
3.2 To be able to demonstrate the optimal	structures and its applications
solution or close to an optimal solution to a	3.2.1 Reaching to a solution and evaluating it
given managerial problem.	after observing the changes
given manageriai problem.	utter observing the changes
PO6: Integration of Functions:	
Students will be able to integrate functional ar	reas of management for planning
implementation and control of business decisi	
Competency	Indicators
6.2 Demonstrate the identification of	6.2.1. Ability to study the changes in
changing trends in a business and operation	preferences of customers
of the functional areas accordingly.	6.2.2. Study in the changes in political &
of the functional areas accordingly.	technological environment
PO7: DeployableSkill set:	
Studentswilldevelopdeployableskills parallel t	
Competency	Indicators
7.1 Demonstrating the ability to identify the	7.1.1Acknowledgementofthe existence of
natureof a problemappearingduringthe	aproblem,
course ofbusiness.	7.1.2 Deciding theoverall nature of
7.2 Demonstrating the ability to	theproblem and its minordetails.
applythelearnedskillset as whenrequired.	7.2.1. Ability
-rr-Junatesameset as memodanea.	toimplementtherequiredknowhow as
	whennecessityarises.
Submitted by:Prof.(Dr.) Rabin Mazumder	
(Name)	(Signature & Date)
• • • • • • • • • • • • • • • • • • • •	(Signature & Date)
Received by: NA (HOD)	(Signature & Date)
	(Signature & Date)

Subject code	BBABB103						
Subject title	Business Mathematics						
Scheme and Credits	L	L T P S Credits Semester-					
	4 4 1st						
Pre-requisite (if any)	Basic Mathematical Knowledge						

- 1. The course is designed to provide a basic applied knowledge of Mathematics.
- 2. The students will be able to apply the number system & basic algebra, set theory
- 3. The course will provide concept of combinatorics & its application.
- 4. The course will give introductory knowledge of calculus required for business

Course Outcome:

CO	Details
1	Ability to understand and apply basic concept of number theory to solve problems on functions & combinatorics.
2	Ability to understand & apply basic algebra & to solve business related problem
3	Ability to understand basic matrix algebra and solve simple problems
4	Ability to understand basic calculus and solve simple problems

Modules	Serial of Modules	Text Book as per	Total hours	Bloo
		Syllabus	of teaching	ms
				Level
	1. The Number System – Positive and	1. BBA	10	BL1,
M-I:	Negative Integers, Fractions, Rational and	Mathematics		BL2,
	Irrational Numbers, Real Numbers, Problems	Vol 1Pal & Das,		BL3,
	Involving the Concept of Real Numbers.	U.N.Dhur& Sons		BL4
		Pvt. Ltd		DE.
	2. Functions – Elementary idea of functions;			
	Domain of a Function; Composition			
	Functions; Classification of Functions:			
	Related problems.			
	3. Permutations and Combinations –			
	Fundamental principle of counting; Factorial			
	notation. Permutation: Permutation of n			

	different things; of things not all different; restricted permutations;			
M-II:	 Basic Algebra – Algebraic Identities, Factorizations; Linear equations; Surds; Indices; Logarithms. Quadratic Equation – Solution of the Quadratic Equation ax² + bx + c = 0, a ≠ 0; Nature of the Roots of a Quadratic Equation; Relation between Roots and Coefficients. Forming quadratic equation with given roots. Set Theory-Introduction; Representation of sets; Types of Sets; Basic operations on sets; Venn Diagrams; Application of set theory to the solution of problem. 	BBA Mathematics Vol 1 - Pal & Das, U.N.Dhur& Sons Pvt. Ltd	10	BL1, BL2, BL3, BL4
M-III:	 1.Determinants- Determinants of order 2 and 3; minors and cofactors; expansion of determinants; properties of determinants; Cramer's rule for solving simultaneous equations in two or three variables 2. Matrices- Different types of matrices; Matrix Algebra – addition, subtraction and multiplication of matrices; Singular and non- 	BBA Mathematics Vol 2 - Pal & Das, U.N.Dhur& Sons Pvt. Ltd	10	BL1, BL2, BL3, BL4
M-IV:	singular matrices; adjoint and inverse of a matrix. 1. Limits & Continuity – Basic concepts of Limits; Simple problems; Concept of Continuity. 2. Differentiation- Meaning & geometrical interpretation of differentiation; standard derivatives (excluding trigonometric functions); rules for calculating derivatives; logarithmic differentiation.	BBA Mathematics Vol 2 - Pal & Das, U.N.Dhur& Sons Pvt. Ltd	10	BL1, BL2, BL3, BL4

RecommendedStudy Material:

- 1. BBA Mathematics Vol 1 Pal & Das, U.N.Dhur& Sons Pvt. Ltd
- 2. BBA Mathematics Vol 2 Pal & Das, U.N.Dhur& Sons Pvt. Ltd
- 3. Mathematics by S.N De class XI & Class XII ChhayaPrakashani Limited

CO & PO Mapping:

O W I O Mapping	<u> </u>							
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8
BBABB103.1		3	3			3	2	
BBABB103.2		3	3			3	2	
BBABB103.3		3	3			3	2	
BBABB103.4		3	3			3	2	

*3= Strong 2=Average 1=Weak PO & PI Mapping:

PO2: Identification of the Nature of a Problem Area	PO2: Identification of the Nature of a Problem Area				
Competency	Indicators				
2.1. Demonstrate an ability to identify an area that	2.1.1. Ability to contribute towards problem				
requires problem solving.	solving methods.				
2.2 Demonstrate an ability to assess the business	2.1.2. Understanding a problem or issues belong				
environment and understand their impact on the	to which of the specialized areas- Finance, HR or				
business.	marketing				
	2.2.1. To be able to identify the different factors				
	that influence the business.				
PO3: Decision Making Skills					
Competency	Indicators				
3.1 To be able to demonstrate the different aspects	3.1.1 Capability of implementation of a decision				
that can get influenced by the decision taken	after proper assessment,				
within the business.	3.1.2 Follow up the changes that are occurring				
	due to the implementation				
PO6: Integration of Functions					
Competency	Indicators				
6.1 Demonstration of the ability to identify gaps	6.1.1. Continuation of Professional development				
in a business strategy, and to be able to close these	and observation skills,				
gaps.	6.1.2. Using rational approach towards an issue.				
6.2 Demonstrate the identification of changing	6.2.1. Ability to study the changes in preferences				
trends in a business and operation of the	of customers and				
functional areas accordingly.					
PO7: Deployable Skill set	T 20 /				
Competency	Indicators				
7.1. Demonstrating the ability to identify the	7.1.1. Acknowledgement of the existence of a				

(HOD)	(Signature & Date)
Received by:	
(Signature & Date)(Signature & Date)	
Submitted by: Dr. Bidushi ChakrabortyPro	of Sreeparna Guha
skill set as when required.	7.2.1. Ability to implement the required knowhow as when necessity arises.
7.2. Demonstrating the ability to apply the learned	7.1.2. Deciding the overall nature of the problem and its minor details.
nature of a problem appearing during the course of business.	problem.

Subject code	BBABB104					
Subject title	Business Statistics					
Scheme and Credits	L T P S Credits Sen					Semester-
	4	0	0		4	1st
Pre-requisite (if any)	None	,				

- 1. The course aims to enable the students to have a proper understanding of Statistical applications.
- 2. The course will help students to understand the use of statistical, graphical and algebraic techniques in Economics and Management.
- 3. The course is designed to give basic concept of descriptive statistics.
- 4. The course is designed to give basic concept Correlational & regression analysis.

Course Outcome:

CO	Details
1	Ability to understand the concept of Statistics & its use.
2	Ability to solve and understand simple central tendency & dispersion problems
3	Ability to deduce Different moment & correlational analysis
4	Ability to understand basic regression & its application

Modules	Serial of Modules	Text Book as per Syllabus	Total hours of teaching	Bloo ms Level
M-I:	1. Introduction to Statistics; Collection, Editing and Presentation of Data: Primary Data and Secondary Data, Methods of Collection, Presentation of Data: Construction of a Table and the Different Components of a Table.	Managerial Statistics – Roychowdhury& Bhattacharya U.N.Dhur& Sons Pvt. Ltd.	10	
	2. Frequency Distributions - Attribute and variable; Frequency distribution of an attribute; Discrete and continuous variables; Frequency distributions of discrete and continuous variables. Different diagrammatic			

	representation of a frequency distribution:		
	representation of a frequency distribution.		
M-II:	Measures of Central Tendency- Introduction, Definition and utility; Different measures of average; Arithmetic Mean; Results on Arithmetic Mean; Merits and Demerits of Arithmetic Mean; Median; Mode; Other positional measures.	Managerial Statistics – Roychowdhury& Bhattacharya U.N.Dhur& Sons Pvt. Ltd.	12
M-III:	Measures of Dispersion- Introduction; Meaning and objective of dispersion; Different measures of dispersion – Range, Quartile deviation, Mean deviation, Mean Absolute deviation, Standard deviation.	Managerial Statistics – Roychowdhury& Bhattacharya U.N.Dhur& Sons Pvt. Ltd.	10
M-IV:	Moments, Skewness and Kurtosis: Moments: Different Ways to Calculate Moments. Skewness: Measures of Skewness, Kurtosis and its Measures. Correlation Analysis: Analysis of Bivariate data. Correlation Analysis – Meaning of Correlation: Scatter Diagram, Karl Pearson's Coefficient of Linear Correlation, Idea of Rank Correlation; Spearman's Rank Correlation Coefficient(without tie)	Managerial Statistics – Roychowdhury& Bhattacharya U.N.Dhur& Sons Pvt. Ltd.	10

RecommendedStudy Material:

- 1. Managerial Statistics— Roychowdhury&Bhattacharya, U.N.Dhur& Sons Pvt. Ltd.
- 2. **Business Mathematics and Statistics** RanajitDhar, DishariPrakashani.

CO & PO Mapping:

	5•							
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8
BBABB104.1		3	3			3	2	
BBABB104.2		3	3			3	2	
BBABB104.3		3	3			3	2	
BBABB104.4		3	3			3	2	

PO2: Identification of the Nature of a Problem Area	
Competency	Indicators
2.1. Demonstrate an ability to identify an area that	2.1.1. Ability to contribute towards problem
requires problem solving.	solving methods.
2.2 Demonstrate an ability to assess the business	2.1.2. Understanding a problem or issues belong
environment and understand their impact on the	to which of the specialized areas- Finance, HR or
business.	marketing
- W. M. W.	
	2.2.1. To be able to identify the different factors
	that influence the business.
PO3: Decision Making Skills	that influence the business.
	Indicators
Competency	Indicators
3.1 To be able to demonstrate the different aspects	3.1.1 Capability of implementation of a decision
that can get influenced by the decision taken	after proper assessment,
within the business.	3.1.2 Follow up the changes that are occurring
	due to the implementation
PO6: Integration of Functions	
Competency	Indicators
6.1 Demonstration of the ability to identify gaps	6.1.1. Continuation of Professional development
in a business strategy, and to be able to close these	and observation skills,
gaps.	6.1.2. Using rational approach towards an issue.
6.2 Demonstrate the identification of changing	6.2.1. Ability to study the changes in preferences
trends in a business and operation of the	of customers and
functional areas accordingly.	
PO7: Deployable Skill set	
Competency	Indicators
7.1. Demonstrating the ability to identify the	7.1.1. Acknowledgement of the existence of a
nature of a problem appearing during the course	problem.
of business.	
	7.1.2. Deciding the overall nature of the problem
7.2. Demonstrating the ability to apply the learned	and its minor details.
skill set as when required.	and its inmor details.
skin set as when required.	7.2.1. A hility to implement the required by each ow
	7.2.1. Ability to implement the required knowhow
	as when necessity arises.
Submitted by: Dr. Bidushi ChakrabortyPro	of Sreeparna Guha
21. 21.000111 01.00111 001011111	
(Signature & Date)(Signature & Date)	
-	
Daggived by:	
Received by:	
(HOD)	(Signature & Date)

Subject Code	BBABB105						
Subject Title	Business Communication						
Scheme and Credits	L T P S Credits Semester						
	3	1	0	0	4	I	
Pre-requisite (if any)	Basic knowledge of communication						

- 1. Students will learn to apply business communication theory to solve workplace communication issues.
- 2. Students will learn to demonstrate the communication skills required in the workplace.
- 3. Students will learn to manage resources effectively and efficiently in a professional context.
- 4. Students will learn to impart the correct practices of the strategies of effective business interactions.

Course Outcome: Student will be able

- CO1 Students will learn to distinguish among various levels of organizational communication and communication barriers while developing an understanding of Communication as a process in an organization.
- CO2 Students will learn to stimulate their Critical thinking by designing and developing clean and lucid interpersonal skills.
- CO3 Students will learn to understand and apply basic principles of critical thinking, problem solving, and technical proficiency in the development of exposition and argument.
- CO4 Students will gain information-seeking skills and strategies necessary for sustaining in professional/ corporate workplace.

Modules	Serial of Modules	Text Book as per	Total	Bloo
		Syllabus	hour	ms

			s of	Level
			teach	
			ing	
	Role of Communication	The Art and	10	BL1
M-I:	Defining Communication,	Science of		BL2
Basics	Classification of Communication	Business		BL3
of	Purpose of Communication	Communication:		BL4
Commu	Elements of Communication,	Skills, Concepts,		BL5
	Major Difficulties of Communication	Cases, and Application		BL5 BL6
nication	Common problems in Two-way communication	Fourth Edition by		DLO
	Barriers to Communication Conditions for Suggestial Communication	PD		
	 Conditions for Successful Communication, Characteristics of Successful Communication, 	ChaturvediMukes		
	 Universal Elements in Communication 	hChaturvedi		
		PEARSON	10	DI 1
	• The process of communication: Linear concept, The Shannon-Weaver Model	The Art and Science of	10	BL1
M-II:	The two way communication process	Business		BL2
Communic	Conditions for successful communication	Communication:		BL3
ation in	The seven C's of communication	Skills, Concepts,		BL4
Business	Universal elements in communication	Cases, and		BL5
		Application		BL6
Environme		Fourth Edition by PD		
nt		ChaturvediMuke		
		shChaturvedi		
		PEARSON		
M-III:	Applying for Jobs	The Art and	10	BL1
Writing	Writing a CV	Science of		BL2
Skills	• The relationship between a Resume and an	Business		BL3
	Application Letter	Communication:		BL4
	The Resume of a Recent Graduate	Skills, Concepts, Cases, and		BL5
	Guidelines for preparing a good CV	Application		BL6
	Drafting an Application LetterBusiness letter	Fourth Edition by		DLO
	Memo	PD		
	Notice	ChaturvediMukes		
	Business Report	hChaturvedi		
		PEARSON • The Art and	5	BL3,
M-IV:		• The Art and Science of		BL3, BL4,
Communic	 Tools of Marketing Communication, 	Business		BL5,
ations for	Some new Tools of Marketing	Communication:		BL6
Effective Marketing	Communication	Skills, Concepts,		
Marketing		Cases, and Application		
	Consumer, Industrial and Trade Marketing	Fourth Edition by		
	Communication,	PD PD		
		ChaturvediMukes		

	 Institutional and Corporate Marketing Communication, Marketing Communication Continuum, Integrated Marketing Communications 	hChaturvedi PEARSON		
M-V:	Reading techniques & engaging effectively	The Art and Science of Business Communication: Skills, Concepts, Cases, and Application Fourth Edition by PD ChaturvediMukes hChaturvedi PEARSON	5	BL1 BL 2

Recommended Study Material:

- The Art and Science of Business Communication: Skills, Concepts, Cases, and Application Fourth Edition by PD ChaturvediMukeshChaturvedi PEARSON
- Effective Technical Communication, Md. Ashraf Rizvi
- Technical Communication, 3E: Principles and Practice by Meenakshi Raman (Author), Sangeeta Sharma (Author)

CO & PO Mapping:

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8
BBABB105 –CO1	3	3	1	3				
BBABB105 –CO2	3			3		3		2
BBABB105 - CO3	3	2	3	3				
BBABB105 - CO4	3		3	3		2		2

^{*3=} Strong 2=Average 1=Weak

Minimum 4 PO to be mapped for each CO

PO 1: Assessment of Choices	
Competency	Indicators
1.1Demonstrate competencies in Business	1.1.1Ability to take up analytical approach for
Construction Model & Decision- Making	problem solving
Model	1.2.1 Ability to take into consideration minute
1.2Demonstrate competencies in evaluation	details and factors that influences a business

of each of the alternatives	1.2.2 Ability to weigh the pros and cons of each of the alternatives or options available to a functional area of a business
PO 2: Identification of the Nature of a Prob	lem Area
Competency	Indicators
2.1. Demonstrate an ability to identify an area that requires problem solving.2.2 Demonstrate an ability to assess the business environment and understand their impact on the business.	 2.1.1 Ability to contribute towards problem solving methods. 2.2.1 Understanding a problem or issues belong to which of the specialized areas-Finance, HR or marketing. 2.2.2 To be able to identify the different factors that influences the business.
DO 2. Desigion Molving Skills	
PO 3: Decision Making Skills Competency	Indicators
3.1. To be able to demonstrate the different aspects that can get influenced by the decision taken within the business. 3.2. To be able to demonstrate the optimal solution or close to an optimal solution to a given managerial problem. PO 4: Deployable Skill set Competency 4.1. To Demonstrate the ability to make effective business communication. 4.2. To Demonstrate the ability to pursue	3.1.1. Capability of implementation of a decision after proper assessment. 3.1.2. Follow up the changes that are occurring due to the implementation (situation analysis methods can be of use) 3.2.1 Reaching to a solution and evaluating it after observing the changes (Case study method can be implemented) Indicators 4.1.1. Ability to choose appropriate words when making verbal communication 4.1.2. To be able to select proper language
stakeholders and enhancing the convincing skills.	and words when making written communication. 4.2.1. Ability to present oneself groomed properly and uses formal gestures with appropriate body language.
PO 6: Moral Sensitivity	
Competency	Indicators
6.1. Demonstration of the ability to identify gaps in a business strategy, and to be able to close these gaps.6.2 Demonstrate the identification of changing trends in a business and operation of the functional areas accordingly.	 6.1.1. Continuation of Professional development and observation skills, 6.1.2. Using rational approach towards an issue. 6.2.1. Ability to study the changes in preferences of customers 6.2.2. Study in the changes in political & technological environment

PO 8: Moral Sensitivity	
Competency	Indicators
8.1. To Demonstrate the ability to identify	8.1.1. The ability to identify the confusion or
that there is a moral dilemma.	the dilemma that is in existence.
8.2. Demonstration of the ability to solve the	8.2.1. Ability to select the best path that will
moral dilemma.	serve to a bigger interest of the stakeholders
	and the society.

Submitted by:	Suchana Ray	
_	(Name)	(Signature & Date)
Received by:		
_	(HOD)	(Signature & Date)

Subject Code	BBABB106							
Subject Title		Fundamental of Computer Applications						
Scheme and Credits	L	L T P S Credits Semester						
	4 0 0 0 4 I							
Pre-requisite(if any)	Basic	Basic knowledge of Computer and its application software						

Course Outcome: Students will

CO1: Recall the concepts of computer structure and the concepts of basic computer organization

CO2: Be able to evaluate the impact of Processor and memory in a computer

CO3: Understand the value of secondary storage devices in a computer.

CO4: Analyze the concepts of a computer software

CO5: Evaluate the concepts of MS Excel

CO6: Be able to create MS office documents with MS Word and MS Power point

Modules	Serial of Modules	Text Book as per Syllabus	Total hour s of teach ing	Bloo ms Level
M-I: Computer Concepts	 Computer and Its Characteristics Evolution of Computers First Generation, Second Generation, Third Generation, Fourth Generation, Fifth Generation Input Unit, Output Unit, Storage unit The System Concept 	P.K.Sinha - Computer Fundamentals, BPB Publication	8	BL1, BL2, BL3, BL4, BL5, BL6
M-II: Process or and memor y and i/o devices	 CPU Main Memory ALU, Control Unit Input devices Keyboard Data scanning devices Electronic Card reader Output devices Monitors Printers Screen image projector 	P.K.Sinha - Computer Fundamentals, BPB Publication	8	BL1, BL2, BL3, BL4, BL5, BL^

M-III: Secondar y Storage devices and	 Sequential and Direct Access Devices Magnetic tapes Magnetic disks Optical disks Memory stage devices Mass storage devices Data back up 	P.K.Sinha - Computer Fundamentals, BPB Publication	8	BL1, BL2, BL3 BL4, BL5, BL6
M-IV: Computer Software and : Microsoft Excel 2007	 Introduction to software Relationship between hardware and software Types of Software System Software Application Software Logical System Architecture Firmware and Middleware Creating a New Spreadsheet Document, Editing an Existing Document, Saving Spreadsheet in DifferentFormats, Validation of data in Fields, Different Tools Available in MS Excel 2007 Ribbon Tabs 	P.K.Sinha - Computer Fundamentals, BPB Publication	8	BL1,B L2,BL 3,BL4, BL5,B L6
M-V: Software: Microsoft PowerPoi nt 2007	 The Different Functionalities of Microsoft PowerPoint 2007, Creating a PowerPoint Presentation, Creating and Inserting a New Slide, Creating a Title Slide; Applying a Design Template. Creating a Hierarchy, Using a Two-Column Text, Slide Sorter View, Running the Slide Show, Printing the Slides, Slide Transition and Custom Animation. Microsoft Word 2007:The different functionalities in the Microsoft Word Software 2007, Creation of a New Document, Editing an Existing Document, Saving and Printing a File, Use of the Different Ribbon Tab and Tools, Handling Tables in MS Word 2007, Mail Merge, Macro. 	P.K.Sinha - Computer Fundamentals, BPB Publication	8	BL1,B L2,BL 3,BL4, BL5,B L6

BLOOM'S	ΓΑΧΟΝΟΜΥ	COURSE OUTCOME – Students will be able to				
LEVEL 1	REMEMBER	Recall facts and	Recall facts and CO 1 Recall the concepts of comp			
		basic concepts structure and the concepts				
				basic computer organization		
LEVEL 2	UNDERSTAND	Explain ideas or	CO 2	Be able to understand the impact		
		concepts of Processor and memory in				
		computer				

LEVEL 3	APPLY	Use information learnt to solve a problem	CO 3	Understand the value of secondary storage devices in a computer and its application
LEVEL 4	ANALYSE	Understand relationships, causes and actions	CO 4	Analyze the concepts of a computer software and MS Excel
LEVEL 5	EVALUATE	Evaluate the correctness of decision made	CO 5	Analyze the concepts of a computer software and MS Excel
LEVEL 6	CREATE	Create something new	CO 6	Be able to create documents of Excel, Word and Power point presentations

RecommendedStudy Material:

- P.K.Sinha Computer Fundamentals, BPB Publication
- Step by Step (Microsoft Office System) 2007 Edition, Prentice -Hall of India

CO & PO Mapping:

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8
BBABB106 –CO1								2
BBABB106 –CO2								2
BBABB106 - CO3			3					
BBABB106- CO4			3	1			3	3
BBABB106 –CO5			3	3			3	3

^{*3=} Strong 2=Average 1=Weak

PO 3: Students will be able to handle different t	ools of decision making and problem solving			
methods in the context of commercial organizat	ion			
Competency	Indicators			
3.1 To be able to demonstrate the different aspects that can get influenced by the decision taken within the business.	3.1.1. Capability of 3.1.2. Follow up the implementation of a changes that are decision after proper assessment.			
. 3.2. To be able to demonstrate the optimal solution or close to an optimal solution to a given managerial problem	3.2.1 Reaching to a solution and evaluating it after observing the changes (Case study method can be implemented)			
PO 4: Communication skills will be enhanced in business analytics algorithms	Synchronization with the functioning of the			
Competency	Indicators			
4.1. To Demonstrate the ability to make	4.1.1. Ability to choose appropriate words			

effective busin	ess communication.	when making verbal communication.		
		4.1.2. To be able to select proper language		
		and words when making written		
		communication.		
PO 7: Students	will develop deployable skills pa	arallel to the chosen functional/ specialized area.		
Competency		Indicators		
7.1. Demonstra	ating the ability to identify the	7.1.1. Acknowledgement of the existence of a		
nature of a p	roblem appearing during the	problem.		
course of busin	ness.	7.1.2. Deciding the overall nature of the		
		problem and its minor details.		
7.2. Demonstr	ating the ability to apply the	7.2.1. Ability to implement the required		
learned skill se	t as when required	knowhow as when necessity arises.		
	-	·		
		emonstrate increased level of sensitivity towards		
	ire ethical and moral addressing			
Competency		Indicators		
	nstrate the ability to identify	8.1.1. The ability to identify the confusion or		
that there is a r	noral dilemma.	the dilemma that is in existence.		
	ation of the ability to solve the	8.2.1. Ability to select the best path that will		
moral dilemma	ı .	serve to a bigger interest of the stakeholders		
		and the society.		
Submitted by:	Prof. Sayan Karmakar			
-				
		(Signature & Date)		
	(Name)	(Signature & Date)		
	(Name)	(Signature & Date)		
Received by:	(Name)	(Signature & Date)		
Received by:	(Name)	(Signature & Date)		
Received by:	(Name) (HOD)	(Signature & Date) (Signature & Date)		

Course code	BBABB301
Course title	Business Research Methods

Scheme and Credits	L	Т	P	S	Credits	Semester-
	4	0	0		4	3rd
Pre-requisite (if any)	Descriptive statistics & probability					

- 1. To familiarize students with basic of research and the research process.
- 2. To help students in conducting research work and making research reports.
- 3. To identify various sources of information for literature review and data collection.
- 4. To write a research report and thesis & research proposal

Course Outcome: Student will

- CO 1: Ability to understand root notion and significance of Research methods & literature
- CO 2: Understand different approaches of research & ethics
- CO 3: Ability to learn Different Sampling Techniques
- CO 4: Ability to learn & apply analysis techniques in research.

Modules	Serial of Modules	Text Book as	Total	Bloo
		per Syllabus	hours of	ms
			teaching	Level
M-I:	 Types of Research: (a) Pure and Applied, (b) Exploratory, Descriptive, (c) Experimental Scientific Study of Social Phenomena: (a) The Scientific Method, Logic in Social Science, (b) Objectivity and Subjectivity in Social Science, (c) Positivism and Empiricism. Methods of research: (a) Quantitative and Qualitative (Characteristics and Differences Sources of Data: Primary & Secondary. Literature Review: Concept, necessity, research 	Research Methodology: Methods And Techniques – C.R.Kothari, New Age International Publishers	10	BL1, BL2, BL3
	gap, reference, and plagiarism. • Techniques of Data Collection: (a) Survey,	Research	10	BL3,
M-II:	 Techniques of Data Conection: (a) Survey, (b) Observation, (c) Questionnaire (d) Interview. Measures of Central Tendency & Dispersion: Mean; Median; Mode; Range; Mean Deviation; Standard Deviation. 	Methodology: Methods And Techniques – C.R.Kothari, New Age International Publisher		BL3, BL4, BL5, BL6

M-III:	 Sampling Theory: Concept; Need and Importance of Sampling; Types of Sampling Methods. Estimation – Theory & Concepts; Point & Interval Estimation. Hypothesis Testing: Definition, Concepts, Types of hypothesis, Test Statistics, Critical Value, Decision Rule, Procedure, Hypothesis testingfor mean. 	Research Methodology: Methods And Techniques – C.R.Kothari, New Age International Publishers	10	
M-IV:	 Introduction to Data Analysis Techniques: Introductory concepts to Univariate, Bi-variate and Multi-variate techniques Correlation & Regression Analysis Data Ethics: Concept, business benefits, Principles, ethical use of algorithms 	Managerial Statistics – S.Roychoudhury & D.Bhattacharya, U.N.Dhur PVT LTD	10	

Recommended Study Material:

- 4. Kothari, C.R.: Research Methodology Methods and Techniques, New Age International Ltd.
- 5. Managerial Statistics S.Roychoudhury & D.Bhattacharya, U.N.Dhur PVT LTD
- 6. Inferential Statistics S.Roychoudhury & D.Bhattacharya, U.N.Dhur PVT LTD

CO & PO Mapping:

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8
BBABB301.1		3	3			3	3	
BBABB301.2		3	3			3	3	
BBABB301.3		3	3			3	3	
BBABB301.4		3	3			3	3	

PO2: Identification of the Nature of a Problem Area	
Competency	Indicators
2.1. Demonstrate an ability to identify an area that requires problem solving.	2.1.1. Ability to contribute towards problem solving methods.
2.2 Demonstrate an ability to assess the business environment and understand their impact on the	2.1.2. Understanding a problem or issues belong to which of the specialized areas- Finance, HR or

business.	marketing
	2.2.1. To be able to identify the different factors
	that influence the business.
PO3: Decision Making Skills	
Competency	Indicators
3.1 To be able to demonstrate the different aspects	3.1.1 Capability of implementation of a decision
that can get influenced by the decision taken	after proper assessment,
within the business.	3.1.2 Follow up the changes that are occurring
	due to the implementation
PO6: Integration of Functions	
Competency	Indicators
6.1 Demonstration of the ability to identify gaps	6.1.1. Continuation of Professional development
in a business strategy, and to be able to close these	and observation skills,
gaps.	6.1.2. Using rational approach towards an issue.
6.2 Demonstrate the identification of changing	6.2.1. Ability to study the changes in preferences
trends in a business and operation of the	of customers and
functional areas accordingly.	
PO7: Deployable Skill set	
Competency	Indicators
7.1. Demonstrating the ability to identify the	7.1.1. Acknowledgement of the existence of a
nature of a problem appearing during the course	problem.
of business.	
	7.1.2. Deciding the overall nature of the problem
7.2. Demonstrating the ability to apply the learned	and its minor details.
skill set as when required.	
-	7.2.1. Ability to implement the required knowhow
	as when necessity arises.

Submitted by:	Prof. Sreeparna Guha	Prof. Debarati Ghosh
	(Signature & Date)	(Signature & Date)
Received by:		
_	(HOD)	(Signature & Date)

Course Code	BBABB302								
Course Title	Financial Accounting								
Scheme and Credits	L	L T P S Credits Semester							
	0 4 0 0 4 III								
Pre-requisite (if any)	Basic knowledge of Business Transactions								

- 1. To make the students understand the financial statements in accordance with appropriate National and International Standards.
- 2. To help students understand the value of ledger accounts using double entry bookkeeping and record journal entries accordingly and to interpret the business implications of financial statement information.
- 3. To prepare the Final Statements of Financial Accounting To emphasize the need for a new strategic decision-making approach within a firm based.
- 4. To explain the process of Primary and Secondary issue of share in Capital market and elaborate the process of forfeiture.

Minimum 4 Course outcome to be prepared which may be extended upto 7

Course Outcome: Student will be able

- CO 1: Students will recognize commonly used financial statements, their components and how information from business transactions flows into these statements.
- CO 2: Students will be able to demonstrate knowledge of preparation of Financial Statements and or financial schedules in accordance with Generally Accepted Accounting Principles through analysis and synthesis of information as well.
- CO 3: Students will be able to demonstrate knowledge of various advanced accounting issues related to Financial Accounting within a global and or ethical framework.
- CO 4: Students will learn relevant financial accounting career skills, applying both quantitative and qualitative knowledge to their future careers in business.
- CO5: Students will be able to understand the strategy of issue of shares in the primary and secondary market.

CO6: Students will be concerned about the different types of bank and personal transactions, and also understands about the various rules and regulations of the financial sectors.

Modules	Serial of Modules	Text Book as per	Total	Blooms
		Syllabus	hours	Level
M-I: Introduction to Financial Accounting & Accounting Standards:	 Meaning and Scope of Accounting; the users of financial accounting information and their needs; Accounting Principles: Accounting Concepts and Conventions, GAAP; Accounting Transactions: Accounting Equation, Journal, Rules of debit and credit, Ledger, Trial Balance. Introduction, Objectives of Accounting Standards, Advantages of Accounting Standards, Accounting Standards in India and IFRS 	 Prof. A. Basu: Financial Accounting I, Dey Book Concern. Basu & Das, Selected Problems on Accounting, Rabindra Library. 	10	BL1, BL2, BL3
M-II: Cash Book & Bank Reconciliation Statement	Double Column Cash Book Meaning of Bank Reconciliation Statement, Importance of Bank Reconciliation Statement, Reasons for Difference, Procedure for Reconciliation.	Basu & Das, Selected Problems on Accounting, Rabindra Library.	5	BL1, BL2, BL3
M-III: Depreciation and Provisions	 Concept of depreciation; Causes of depreciation; depletion, amortization; Depreciation accounting; Methods of recording depreciation; Straight line and diminishing balance method (excluding change in method of depreciation). Provisions and Reserves: Preparation of provision for doubtful debt account, provision for discount on Debtors account and provision for Discount on Creditors account. 	 Prof. A. Basu: Financial Accounting I, Dey Book Concern. Basu & Das, Selected Problems on Accounting, Rabindra Library. 	15	BL1, BL2, BL3, BL4
M-IV: Final Accounts	• Introduction, Meaning, Objectives and Characteristics of Final Accounts; Final Statements of Sole Proprietorship, adjustments in Preparation of Final Statements.	 Prof. A. Basu: Financial Accounting I, Dey Book Concern. Basu & Das, Selected Problems on Accounting, Rabindra Library. 	5	BL1, BL2, BL3

Recommended Study Material:

Text Book:

- 1. Prof. Amitabha Basu: Financial Accounting I, Dey Book Concern.
- 2. Basu & Das, Selected Problems on Accounting, Rabindra Library.

References:

- 1. Maheshwari: Introduction to Accounting, Vikas Publishing.
- 2. Shukla, MC, Grewal TS, and Gupta, SC: Advanced Accounts; S. Chand & Co.

CO & PO Mapping:

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8
BBABB302 - CO1	3	3				2	2	
BBABB302 - CO2		3	2			3	3	
BBABB302 - CO3	2	2				3	3	
BBABB302- CO4	2	2	3			3		
BBABB302- CO5	2	3	2			2		
BBABB302 - CO6	3		3			2	3	

^{*3=} Strong 2=Average 1=Weak Minimum 4 PO to be mapped for each CO

PO 1: Assessment of Choices	
Competency	Indicators
1.1 Demonstrate competencies in Business	1.1.1. Ability to take up analytical approach for
Construction Model & Decision Making Model	problem solving,
1.2 Demonstrate competencies in evaluation of	1.1.2. Ability to take into consideration minute
each of the alternatives	details and factors that influences a business.
	1.2.1 Ability to weigh the pros and cons of each
	of the alternatives or options available to a
	functional area of a business.
PO 2: Identification of the Nature of a Problem	Area
Competency	Indicators
2.1. Demonstrate an ability to identify an area	2.1.1 Ability to contribute towards problem
that requires problem solving.	solving methods,
2.2 Demonstrate an ability to assess the business	2.1.2 Understanding a problem or issue belongs to
environment and understand their impact on the	which of the specialized areas- Finance, HR or
business.	marketing.
	2.2.1 To be able to identify the different factors
	that influences the business.
PO 3: Decision Making Skills	
Competency	Indicators
3.1. To be able to demonstrate the different	3.1.1. Capability of implementation of a decision
aspects that can get influenced by the decision	after proper assessment.

taken within the business.	3.1.2. Follow up the changes that are occurring due to the implementation (situation analysis methods can be of use)		
PO 6: Integration of Functions			
Competency	Indicators		
 6.1 Demonstration of the ability to identify gaps in a business strategy, and to be able to close these gaps. 6.2 Demonstrate the identification of changing trends in a business and operation of the functional areas accordingly. 	6.1.1. Continuation of Professional development and observation skills, 6.1.2. Using rational approach towards an issue. 6.2.1. Ability to study the changes in preferences of customers and 6.2.2. Study in the changes in political & technological environment.		
PO 7: Deployable Skill set			
Competency	Indicators		
7.1 Demonstrating the ability to identify the nature of a problem appearing during the course of business.7.2 Demonstrating the ability to apply the learned skill set as when required.	 7.1.1 Acknowledgement of the existence of a problem, 7.1.2 Deciding the overall nature of the problem and its minor details. 7.2.1. Ability to implement the required knowhow as when necessity arises. 		

Submitted by:	Arkaprava Chakrabarty	organis .
_	(Name)	(Signature & Date)
Received by:		
_	(HOD)	(Signature & Date)

Kindly paste your soft signature

Course Code	BBABB303						
Course Title	Marketing_Management						
Scheme and Credits	T L P S Credits Semester						
	6 0 0 0 6 III						
Pre-requisite (if any)	Nil						

- 1. To understand the relevance of marketing concepts and its impact on environmental change while designing marketing plans & strategies for practices.
- 2. To illustrate the functionality and application of elements of Marketing Mix and selling propositions for specific product offerings and pricing objectives.
- 3. To apply knowledge in creating strategies for integrated marketing communication and distribution network.
- 4. To develop marketing strategies based on segmentation, target marketing, positioning by examining consumer behavior and sustainability.

Course Outcome:

- CO1: Students will learn the basic & fundamental concepts of Marketing and will also be able to outline key marketing concepts and its application to coordinate the various marketing environment variables and interpret them for designing marketing strategy for business firms.
- CO2: Students will be able to understand the suitable product, pricing strategies for a firm to achieve the Marketing objective of the firm. and the importance of integrated marketing communication and distribution strategies to achieve organizational goal.
- CO3: Students will be able to analyze & implement the appropriate segmentation, targeting and positioning strategy to achieve the business goals in emerging green consumer segments and how marketers are addressing those needs.
- CO4: Students will be able to practice the relevant marketing skills for designing innovative marketing strategies for business firms.

Modules	Serial of Modules	Text book as per	Total	Blooms
		Syllabus	hours of	Level
			teaching	
Module I: Fundamentals of Marketing & its Environment:	Unit I: Introduction to Marketing Nature and scope of marketing; Importance of marketing; Marketing concepts – traditional and modern; Selling vs. marketing; Functions and Evolution of Marketing; Marketing mix, customer value and satisfaction.	Saxena, Rajan: Marketing Management, Tata McGraw Hill	14	BL 1, BL 2,
Module II: Managing Marketing Mix	Unit II: Marketing environment: Macro and Micro Environment and its significance to marketing; SWOT Analysis; PEST Analysis, corporate strategy concept, strategic business units. Product mix – Product Life Cycle – New product development & consumer adoption process – Branding & Packaging – Pricing – Meaning – Objectives of pricing – Factors influencing pricing decisions – Methods of pricing and pricing strategies. Promotion – Meaning – Promotion mix – Selection of media– Personal selling – Sales Promotion. Factors affecting choice of channel – Channel design decision – Channel Management – Channel Conflict.	Saxena, Rajan: Marketing Management, Tata McGraw Hill	20	BL 1, BL 2, BL 4, BL 5
Module III: Market Segmentatio n, Targeting & Positioning (STP) for Sustainable Strategy	Segmentation: Meaning—Perquisites/ bases for sound segmentation — Target marketing strategies — Product positioning, meaning and steps involved. Meaning, Concept, Types, Importance, Benefits Difference in between Marketing & Green Marketing, Green Marketing Mix, Green Marketing Adoption Strategies.	Saxena, Rajan: Marketing Management, Tata McGraw Hill	14	BL 1, BL 2, BL 3, BL 4, BL 5
Module IV: Building Customer value, Satisfaction and loyalty	Meaning of consumer behaviour – Factors influencing Consumer behaviour – Buying decision process and its stages. Customer Value- Customer satisfaction. Changing profile of consumers.	Saxena, Rajan: Marketing Management, Tata McGraw Hill	12	BL 2, BL 4, BL 5

Textbook

- Saxena, Rajan: Marketing Management, McGraw Hill
- Philip Kotler, Gary Armstrong, Prafulla Agnihotri, Principles of Marketing; Pearson Education

Reference Book

• Ramaswamy and Namakumari -Marketing Management- Indian Context -Global Perspective, Sage Publications India Pvt Ltd; Sixth Edition 2018

Recommended Study Material:

- Introduction to Marketing, Theory & Practice, Adrian Palmer, OXFORD
- Basic Marketing: A Global Managerial Approach, Willam D Perrault & E Jerome Macarthy, McGraw-Hill
- Marketing Management: Text & Cases, K.S.Chandrasekar, McGraw-Hill
- Case Studies in Marketing Management, S. Ramesh Kumar, Pearson
- Gupta Prachi, Marketing Management (Indian Cases), Pearson

CO & PO Mapping:

СО	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8
BBABB303_CO1	2	3	2	3	2	2	2	3
BBABB303_CO2	3	2	3	2	3	2	3	2
BBABB303_CO3	3	3	2	3	2	2	2	3
BBABB303_CO4	3	3	2	3	2	3	2	2

^{*3=} Strong 2=Average 1=Weak

PO 1: Assessment of Choices						
Competency	Indicators					
1.1 Demonstrate competencies in Business	1.1.1. Ability to take up analytical approach for					
Construction Model & Decision- Making Model	problem solving,					
	1.1.2. Ability to take into consideration minute					
	details and factors that influences a business.					
	1.1.3 Ability to weigh the pros and cons of each of					
	the alternatives or options available to a functional					
	area of a business.					
PO 2: Identification of the Nature of a Problem A	rea					
Competency	Indicators					
2.1. Demonstrate an ability to identify an area that	2.1.1 Ability to contribute towards problem solving					
requires problem solving.	methods,					
2.2 Demonstrate an ability to assess the business	2.1.2 Understanding a problem or issue belongs to					
environment and understand their impact on the	which of the specialized areas- Finance, HR or					
business.	marketing.					
	2.2.1 To be able to identify the different factors that					

	influences the business.
PO 3: Decision Making Skills	
Competency	Indicators
3.1. To be able to demonstrate the different aspects	3.1.1. Capability of implementation of a decision
that can get influenced by the decision taken within	after proper assessment.
the business.	3.1.2. Follow up the changes that are occurring due
	to the implementation (situation analysis methods
	can be of use)
PO4: Communication Skills	· · · · · · · · · · · · · · · · · · ·
Competency	Indicators
4.1 To Demonstrate the ability to make effective	4.1.1. Ability to choose appropriate words when
business communication.	making verbal communication,
	4.1.2. To be able to select proper language and
	words when making written communication.
PO5: Team Work	
Competency	Indicators
5.1 Students will develop the capability of	
functioning efficiently within the teams.	group and deciding a common goal.
•	5.1.2. The ability to apply the behavioral science
	when functioning within the group.
PO 6: Integration of Functions	
Competency	Indicators
6.1 Demonstration of the ability to identify gaps in	6.1.1. Continuation of Professional development and
a business strategy, and to be able to close these	observation skills,
gaps.	6.1.2. Using rational approach towards an issue.
6.2 Demonstrate the identification of changing	6.2.1. Ability to study the changes in preferences of
trends in a business and operation of the functional	customers and
areas accordingly.	6.2.2. Study in the changes in political &
	technological environment.
PO 7: Deployable Skill set	
Competency	Indicators
7.1 Demonstrating the ability to identify the nature	7.1.1 Acknowledgement of the existence of a
of a problem appearing during the course of	problem,
business.	7.1.2 Deciding the overall nature of the problem and
7.2 Demonstrating the ability to apply the learned	its minor details.
skill set as when required.	7.2.1. Ability to implement the required knowhow
	as when necessity arises.
PO 8: Moral Sensitivity	
Competency	Indicators
8.1 To Demonstrate the ability to identify that there	8.1.1. The ability to identify the confusion or the
is a moral dilemma.	dilemma that is in existence
8.2 Demonstration of the ability to solve the moral	8.2.1. Ability to select the best path that will serve to
	8.2.1. Ability to select the best path that will serve to a bigger interest of the stakeholders and the society

Course code	BBA	BBABB304						
Course title	Emp	Employability and Practitioners Skill						
Scheme and Credits	L	Т	P	S	Credits	Semester-		
	1	1	0		2	III		
Pre-requisite (if any)	Basic knowledge of Organizational Behavior.							

- 1. Students will learn to apply personality development theory to solve workplace communication issues.
- 2. Students will learn to demonstrate the interpersonal skills required in the workplace.
- 3. Students will learn to manage resources effectively and efficiently in a professional context.
- 4. Students will learn to impart the correct practices of the strategies of effective business interactions.

Course Outcomes:

1	Students will develop abilities as critical thinkers and dynamic managers.
2	Students will Improves communication and leadership skills.
3	Students will use critical thinking as it pertains to using these tools for effective attitude in a professional setting.
4	Students will gain information-seeking skills and strategies necessary for sustaining in professional/ corporate workplace.

Course content:

Modules	Serial of Module	Text Book as per Syllabus	CO
		·	

Understanding People at Work: Individual Differences and Perception	The interactionist perspective, individual differences (Values and Personality), Perception. The role of Ethics and National Culture, using science to match candidates to jobs. Case Study	Organizational Behavior: Text and Cases Avinash K. Chitale, Rajendra Prasad Mohanty, Nishith Rajaram Dubey PHI Learning Pvt Ltd	CO1
Individual Attitudes and Behaviours, Theories and Motivation	Work attitudes, work behaviours, rebounding from defeat, Need based theories of motivation, Process based theories, Motivation in action, Case Study	Organizational Behavior: Text and Cases Avinash K. Chitale, Rajendra Prasad Mohanty, Nishith Rajaram Dubey PHI Learning Pvt Ltd	CO4
Personality and Goal setting	Introduction, Nature, shaping of Personality, Personality Traits, Determinants of Personality, Measuring Personality, SWOT analysis & Goal setting, Case Study	Organizational Behavior: Text and Cases Avinash K. Chitale, Rajendra Prasad Mohanty, Nishith Rajaram Dubey PHI Learning Pvt Ltd	CO3
Learning and Learning Theories	Introduction, Nature, Principles, Adults learning theories, Shaping Behaviour, Reinforcement of strategies, schedules and theory, Case Study	Organizational Behavior: Text and Cases Avinash K. Chitale, Rajendra Prasad Mohanty, Nishith Rajaram Dubey PHI Learning Pvt Ltd	CO2
Managing Stress and Emotion	What is stress, avoiding and managing stress, what are emotions? Emotion at work, Getting Emotional: Case Study	Organizational Behavior: Text and Cases Avinash K. Chitale, Rajendra Prasad Mohanty, Nishith Rajaram Dubey PHI Learning Pvt Ltd	
Conflicts and Negotiations, Making Decisions	Understanding Conflict, Causes and outcomes of conflict, Conflict Management, Negotiations, Case Study.	Organizational Behavior: Text and Cases Avinash K. Chitale, Rajendra Prasad Mohanty,	

Nishith Rajarar	n Dubey
PHI Learning F	Pvt Ltd

Recommended Books:

Textbooks	
Sl. No.	
1	Organizational Behavior: Text and Cases
	Avinash K. Chitale, Rajendra Prasad Mohanty, Nishith Rajaram Dubey
	PHI Learning Pvt Ltd

References	
Sl. No.	
1	The Art and Science of Business Communication
2	Transformational Leadership by Edward J Shelton

CO-PO Mapping:

СО	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8
BBABB304 .1	3	3	3					2
BBABB304 .2	2	3	3					3
BBABB304 .3	3	3	2					2
BBABB304 .4	3	3	2					3

³⁼ Strong 2=Average 1=Weak (Kindly mention the Number only)

PO & PI Mapping:

PO 1 : Students will develop the capability to assess alternate managerial choices and come up with optimal solutions.

Competency	Indicators
1.1 Demonstrate an ability to plan/manage managerial activities	1.1.1 Identify the tasks required to complete the managerial aspects of a management activity, and the resources required to complete the tasks.1.1.2 Ability to weigh the pros and cons of each of the alternatives or options available to a functional area of a business.

PO 2: Students will be able to apply their conceptual understanding of marketing, finance and

human resources in the real world.				
Competency	Indicators			
2.1. Demonstrate an ability to identify an area that requires problem solving.	2.1.1 Ability to contribute towards problem solving methods			
2.2 Demonstrate an ability to assess the business environment and understand their impact on the	2.1.2 Understanding a problem or issue belong to which of the specialized areas Finance, HR or marketing.			
business.	2.2.1 To be able to identify the different factors that influence the business.			
PO 3: : Students will develop decision thinking ability.	making skills with the help of analytical and critical			
Competency	Indicators			
3.1 To be able to demonstrate the different aspects that can get influenced by the decision taken within the business.	3.1.1 Capability of implementation of a decision after proper assessment			
3.2 To be able to demonstrate the optimal solution or close to an optimal solution to a given managerial	3.1.2 Follow up the changes that are occurring due to the implementation (situation analysis methods can be of use)			
problem.	3.2.1 Reaching to a solution and evaluating it after observing the changes (Case study method can be implemented)			
	pability to demonstrate increased level of sensitivity oral addressing during the course of business.			
Competency	Indicators			
8.1 To Demonstrate the ability to identify that there is a moral dilemma.	8.1.1. The ability to identify the confusion or the dilemma that is in existence			
8.2 Demonstration of the ability to solve the moral dilemma.	8.2.1. Ability to select the best path that will serve to a bigger interest of the stakeholders and the society			
Submitted by : Suchana Roy				
(Name) Received by : Dr. Rabin Mazumder	(Signature & Date) Rabin Mazunder			
(HOD)	(Signature& Date)			

Course code	BBA	BBABB305							
Course title	Business Ethics								
Scheme and Credits	L	L T P S Credits Semester-							
	4 4 3								
Pre-requisite (if any)	Basi	Basic Concept of Management							

- 1. Students can distinguish between values and skills and understand the need, basic guidelines, content and process of value education.
- 2. Students can initiate a process of dialog with themselves to know what they "really want to be" in their life and profession.
- 3. Students can understand the meaning of happiness and prosperity for a human being.
- 4. To facilitate students in applying the understanding of harmony in existence in their profession and lead an ethical life.

Course Outcome:

- CO 1: Students understand the significance of inputs in a classroom, distinguish between values and skills, understand the need, basic guidelines, content and prosperity and process of value education, explore the meaning of happiness and prosperity.
- CO 2: Students can distinguish between the Self and Body, they can understand the meaning of Harmony in the Self and co-existence of Self and Body.
- CO 3: Students can understand the value of harmonious relationship based on trust, respect and other naturally acceptable feelings in human-human relationships and explore their in ensuring a harmonious society.
- CO 4: Distinguish between ethical and unethical practices, and start working out the strategy to actualize a harmonious environment wherever they work.

Course content:

Modules	Topic	Text Book as	CO
		per Syllabus	
Module 1	Understanding the need basic guidelines, content and process for Value Education; Self-Explorationits content and process; Happiness and Prosperity—A basic Human Aspirations.		CO1
Module 2	Co-existence of the sentient 'I' and the material 'Body', Understanding the needs of Self (I) and 'Body", Understanding the harmony of 'I' with the Body.		CO2
Module 3	Understanding harmony in the family, Understanding values in human-human relationship, meaning of <i>Nyaya</i> , Trust(<i>Vishwas</i>) and Respect(<i>Samman</i>) as the foundational values, Understanding the harmony in the society.		CO3
Module 4	National acceptance of human values, Ethical Human Conduct, Humanistic Constitution and Humanistic Universal Order, Competence in Professional Ethics: a) Ability to utilize the professional competence for augmenting universal human order, b)Ability to identify the scope and characteristics of people-friendly and eco-friendly production systems technologies and management models, Socially and Ecologically responsible engineers, managers, technologists etc, Mutualiy enriching institutions and organizations.		CO4

Recommended Books:

Text Book:

1.

2.

References:

1.

2.

CO-PO Mapping:

СО	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8
BBABB305_CO1		3				2	2	3
BBABB305_CO2		3				3	2	3
BBABB305_CO3		3				2	3	3
BBABB305_CO4		3				2	2	3

3= Strong 2=Average 1=Weak (Kindly mention the Number only)

PO 2: Students will be able to apply their conceptual understanding of marketing, finance and human resources in the real world

Competency	Indicators
2.1. Demonstrate an ability to identify an area that requires problem solving	2.1.1 Ability to contribute towards problem solving methods
	2.1.2 Understanding a problem or issue belong to which of the specialized areas Finance, HR or marketing
2.2 Demonstrate an ability to assess the business environment and understand their impact on the business	2.2.1 To be able to identify the different factors that influence the business

PO 6 : Students will be able to integrate functional areas of management for planning, implementation and control of business decisions.

Competency	Indicators
6.1 Demonstration of the ability to identify gaps in a business strategy, and to be able to close these gaps.	6.1.1. Continuation of Professional development and observation skills.6.1.2. using rational approach towards an issue.
6.2 Demonstrate the identification of	
changing trends in a business and operation of	

the functional a	reas accordingly.	preferences of customers.
		6.2.2. Study in the changes in political &
		technological environment.
PO 7 : Students	will develop deployable skills	parallel to the chosen functional/specialized
area.	will develop deployable similar	parametric the enotes ranctional opecialized
Competency		Indicators
7.1 Demonstrati	ng the ability to identify the	7.1.1 Acknowledgement of the existence of a
nature of a probl	lem appearing during the	problem
course of busine	ess.	7.1.2 deciding the overall nature of the
		problem and its minor details.
7.2 Demonstrati	ng the ability to apply the	7.2.1. Ability to implement the required
learned skill set	as when required.	knowhow as when necessity arises.
	will develop the capability to de e ethical and moral addressing	emonstrate increased level of sensitivity towards during the course of business.
Competency		Indicators
8.1. To Demons	strate the ability to identify	8.1.1. The ability to identify the confusion or
that there is a mo	oral dilemma.	the dilemma that is in existence.
8.2. Demonstrati moral dilemma.	ion of the ability to solve the	8.2.1. Ability to select the best path that will serve to a bigger interest of the stakeholders and the society.
Submitted by:	(Nome)	(Signatura & Data)
	(Name)	(Signature& Date)
Received by:		
_	(HOD)	(Signature& Date)

Session: 2023-2027

aCourse Code	BBABB306								
Course Title	Fundamental of Cost Accounting								
Scheme and Credits	L	L T P S Credits Semester							
	0 4 0 0 4 III								
Pre-requisite (if any)	Basic	Basic knowledge of cost and revenue							

- 1. To make the students understand the basic cost concepts.
- 2. To help students understand the method of accounting for material, labour and overhead
- 3. To introduce the fundamentals of a cost sheet
- 4. To emphasize the need for cost ascertainment in process costing.

Course Outcome: Student will be able

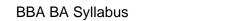
- CO1: Learn the fundamental concepts of cost.
- CO2: Understand the value and importance of cost and revenue in a business
- CO3: Be able to apply the fundamentals of cost to understand how cost of material, labour and overheads are ascertained in a product.
- CO4: Be able to prepare, analyze and evaluate cost sheet and calculate the cost of a process.
- CO5: Be able to evaluate the impact of any STRATEGIC decision w.r.t cost.
- CO6: Be able to prepare strategy pertaining to a product and its cost.



Modules M-I:	 Serial of Modules Nature and scope of cost accounting; Cost concepts and classification: direct, 	Text Book as per Syllabus Basu & Das: Cost & Management	Total hour s of teach ing	Bloo ms Level BL1, BL2,
Introduc tion	 indirect, Element wise, function wise, Behaviour wise. Essentials of a good cost accounting system: Difference between cost and Management accounting: Concept of Cost Audit. Preparation of cost sheet & estimation. 	Accounting, Rabindra Library		BL2, BL3
M-II: Account ing for Material	 Economic Order Quantity, ABC analysis (selective inventory concept): Various stock levels: JIT purchase: Selective methods of Material control; pricing of material issues - FIFO, LIFO, Weighted average 	M. N Arora: Cost Accounting – Principles and Practice,	12	BL2, BL3 BL4,
M-III: Accounti ng for Labour	 Labour turnover; Idle time and overtime; Methods of wage payment-time and piece rates; Incentive schemes 	M. N Arora: Cost Accounting – Principles and Practice,	5	BL1, BL2, BL3, BL4, BL5
M-IV: Accounting for Overheads	 Absorption, Allocation and apportionment of Overheads: Determination of overhead rates; Under and over absorption and its treatment, Primary and secondary distribution of overhead. 	M. N Arora: Cost Accounting – Principles and Practice,	5	BL3, BL4, BL5, BL6
M-V: Cost Ascertainm ent	Process costing	• M. N Arora: Cost Accounting – Principles and Practice,	8	BL5, BL6

Recommended Study Material:

- Basu & Das: Cost & Management Accounting, Rabindra Library.
- Dr. C.H Sengupta & B. G Chowdhury: Cost and Management Accounting, Dey Book Concern.
- Bhabatosh Banerjee: Cost Accounting-Theory & Practice, Prentice Hall of India Ltd. New Delhi.
- M. N Arora: Cost Accounting Principles



CO & PO Mapping:



CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8
BBABB306 –CO1		3	2				2	2
BBABB306 –CO2		2	3			3	2	
BBABB306 - CO3		3				2	3	2
BBABB306 - CO4		2	3			3	2	
BBABB306 –CO5			2			3	3	2
BBABB306 –CO6		3	3				2	2

^{*3=} Strong 2=Average 1=Weak

PO 2: Identification of the Nature of a Problem	Area			
Competency	Indicators			
2.1. Demonstrate an ability to identify an area that requires problem solving.2.2. Demonstrate an ability to assess the business environment and understand their impact on the business.	solving methods, 2.2.1To be able to identify the different			
PO 3: Decision Making Skills				
Competency	Indicators			
3.1. To be able to demonstrate the different aspects that can get influenced by the decision taken within the business.3.2 To be able to demonstrate the optimal solution or close to an optimal solution to a given managerial problem.	 3.1.1. Capability of implementation of a decision after proper assessment. 3.1.2. Follow up the changes that are occurring due to the implementation. (situation analysis methods can be of use) 3.2.1 Reaching to a solution and evaluating it after observing the changes (Case study method can be implemented). 			
PO 6: Integration of Functions				
Competency	Indicators			
6.1 Demonstration of the ability to identify gaps in a business strategy, and to be able to close these gaps. 6.2	6.1.1. Continuation of Professional development and observation skills, 6.1.2. Using rational approach towards an issue. 6.2.1.			
PO 7: Deployable Skill set				
Competency	Indicators			
7.1 Demonstrating the ability to identify the nature of a problem appearing during the course of business.7.2 Demonstrating the ability to apply the learned skill set as when required	7.1.1 Acknowledgement of the existence of a problem, 7.1.2 Deciding the overall nature of the problem and its minor details. 7.2.1. Ability to implement the required knowhow as when necessity arises.			

Minimum 4 PO to be mapped for each CO



PO 8: Moral Sensitivity	
Competency	Indicators
8.1 To Demonstrate the ability to identify that	8.1.1. The ability to identify the confusion or the
there is a moral dilemma.	dilemma that is in existence
8.2 Demonstration of the ability to solve the	8.2.1. Ability to select the best path that will
moral dilemma.	serve to a bigger interest of the stakeholders
	and the society

Submitted by:	Ajanta Ghosh	Spants floor		
_		06.07.2023		
	(Name)	(Signature & Date)		
Received by:				
	(HOD)	(Signature & Date)		

Course code		BBABB501						
Course title	Conten	Strategic Management Contents Strategic Management for business professionals.						
Scheme and Credits	L	L T P S Credits Semester						
	3	3 1 0 4 V						
Pre-requisite (if any)		Basic knowledge of Management						

Course Objectives:

- 1. To enable the students to understand the fundamental concept of strategy in business.
- **2.** To enable the students to understand the fundamental techniques of formulating strategy.
- **3.** To enable the students to understand the relevance of strategy to sustain in a competitive scenario.
- **4.** To understand the logic of designing an effective strategy for effective growth of a corporate.

Course Outcomes:

- 1. Students can able examine the fundamentals of strategic issues of business.
- 2. Students can assess the various techniques of business.
- 3. Students can analyze the importance and logic of formulation of the business strategy.
- 4. Students can apply and implement strategy in corporate for business growth.

Modules	Serial of Modules	Text Book as per	Total	CO
		Syllabus	hours	
			of	
			teachi	
			ng	
Module I:	Definition and meaning of strategy & strategic	1. Kazmi, Azhar:	6	CO1,
Introduction	management; Objectives & role of strategic management.	Business Policy		CO2
, Strategic	Benefits and importance of strategic	and Strategic Management,		
Intent -	management; Causes for failure of strategic management; the strategic management	Tata McGraw Hill		
Vision,	process.			
Mission &	• Vision – concept & importance; Mission			
Objectives	- concept & relevance; Objectives &			



(VMO)	goals – concept & relevance;			
	Components of mission statement,			
	• Formulation of mission & objectives and their specificity; Examples of VMO.			
Module II:	• Concept of environment, environmental	1. Kazmi, Azhar:	11	CO1,
Environmen	analysis and appraisal,	Business Policy and		CO2,
tal Analysis	• Need for & component of external environment analysis;	Strategic Management, Tata		CO3
	• Tools & techniques of environment	McGraw Hill		
	analysis – PESTEL, ETOP; Porter's Five Forces Model			
	• Concept of Internal analysis; Value			
	chain analysis; Factors of internal analysis;			
	• Strategic & Situational Analysis –			
	SWOT Analysis, TOWS Matrix			
Module III:	Meaning & Stages of Strategic Planning;	1. Kazmi, Azhar:	9	CO4,
Strategic	Corporate goal setting, functional goal setting, managerial goal setting,	Business Policy and Strategic		CO5,
Planning:	positioning organization	Management, Tata		CO6
	Strategy Formulation I - Corporate level	McGraw Hill		
	strategies: Concept, scope, types and			
	significance of corporate level strategies; Generic Growth/expansion			
	strategies - characteristics, forms,			
	applicability; Ansoff matrix			
	• Strategy Formulation II - Business level strategies: Concept of business level			
	strategies; Competitive advantage and			
	Core competencies; Cost leadership,			
	differentiation & focus; Porter's			
	framework of competitive strategies; Concept of SBU			
Module IV:	• Concept of strategic analysis and	1. Kazmi, Azhar:	9	CO4,
Strategic	choice; BCG Matrix & GE-Nine Cell	Business Policy and		CO5,
Analysis, Choice and	Planning grid.Issues in strategy implementation,	Strategic Management, Tata		CO6
implementatio	Integrating the functional plan and	McGraw Hill		
n	policies; Role of managers, Leadership,			
	strategic control system &			
	measurement; Strategic Actions - Mergers, Acquisitions &			
	Diversification			



Module V:	• Evaluation of strategy and strategic	1. Kazmi, Azhar: 5	CO4,
Strategic	control, Need for strategic evaluation;	Business Policy and	CO5,
Evaluation and	• Criteria for evaluation and the	Strategic	CO6
Control	evaluation process; strategic control	Management, Tata	
	 Process & types of external controls 	McGraw Hill	

Suggested Readings:

BBA BA Syllabus

- 1. Pearce & Robinson: Strategic Management AITBS
- 2. Bhattacharya. and Venkataraman: Managing Business Enterprise: Strategies, Structures and Systems, Vikas Publishing House
- 3. Budhiraja, S. B. and Athreya, M. B: Cases in Strategic Management, Tata McGraw Hill
- 4. Subbarao: Strategic Management, Himalaya Publication
- 5. Thompson & Strickland: Strategic management Concept & Cases, Tata McGraw Hill,

CO-PO Mapping:

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8
BBABB5601.1	3	3	2	2				
BBABB601.2			3		3	3	3	
BBABB601.3		3	3				2	1
BBABB601.4		3			3	2	2	1

3= Strong 2=Average 1=Weak

Competency	Indicators			
PO1: Assessment of Choices				
1.1. Demonstrate competencies in	1.1.1. Ability to take up analytical approach for			
Business Construction Model &	problem solving,			
Decision- Making Model	1.1.2. Ability to take into consideration minute			
1.2. Demonstrate competencies in	details and factors that influences a			
evaluation of each of the	business.			
alternatives	1.1.3. Ability to weigh the pros and cons of each			
	of the alternatives or options available to a			
	functional area of a business.			
Competency	Indicators			
PO2: Identification of the Nature of a P	roblem Area			
2.1. Demonstrate an ability to identify an	2.1.1. Ability to contribute towards problem			
area that requires problem solving.	solving methods.			
2.2 Demonstrate an ability to assess the	2.1.2. Understanding a problem or issues belong			
business environment and understand	to which of the specialized areas- Finance, HR or			
their impact on the business.	marketing.			
	2.2.3. To be able to identify the different factors			
	that influence the business.			
PO 3: Decision Making Skills				
3.1. To be able to demonstrate the	3.1.1. Capability of implementation of a decision			

BBA BA Syllabus Ses	ssion: 2023-2027
different aspects that can get influenced by the decision taken within the business. 3.2. To be able to demonstrate the optimal solution or close to an optimal solution to a given managerial problem.	3.1.2. Follow up the changes that are occurring due to the implementation (situation analysis
Competency	Indicators
PO5: Team Work	
5.1. To understand Group Formation and Group Cohesiveness 5.2. To be able to demonstrate the importance of adjustment and the importance of concentrating other group members' opinion.	5.1.1. Ability to understand the objective of the group and deciding a common goal. 5.2.1. The ability to apply the behavioral science when functioning within the group.
PO6: Integration of Functions	
 6.1. Demonstration of the ability to identify gaps in a business strategy, and to be able to close these gaps. 6.2 Demonstrate the identification of changing trends in a business and operation of the functional areas accordingly. 	and observation skills, 6.1.2. Using rational approach towards an issue. 6.2.1. Ability to study the changes in preferences of customers.

Submitted by:	Dr. Soumik Gangopadhyay	Sounik gangopalhyay. 27.07.23
-	(Name)	(Signature & Date)
Received by:		
_	(HOD)	(Signature & Date)

Course code	BBABB502							
Course title	Data Analytics Skills for Managers							
Scheme and Credits	L	L T P S Credits Semester-						
	4 0 0 0 4 v							
Pre-requisite (if any)	E	Basic knowledge of mathematical function, differentiation						



1. To enable the students to understand fundamental concepts, terms and terminologies involved in data analytics, and to relate themselves with importance, role and application of data analytics in business domain.

Session: 2023-2027

- 2. To help the students understand data collection and data pre-preprocessing strategies through the incorporation of case studies.
- 3. To enable students to identify three core types data analytical techniques i.e. exploratory, descriptive, and causal along with its nature and application.
- 4. To enable the students classify the application of appropriate analytical techniques in appropriate situation.

Course Outcome:

- CO1: Students will learn the basic & fundamental concepts of Data Analytics and its applications in different domains of business.
- CO2: Students will be able to understand the intricacies of Data Analytics such ashow it works, different statistical methods of Data Analytics, identify three core types of data analytical techniques i.e. exploratory, descriptive, and causal along with their application, how to deal with the critical issues related to data.
- CO3: Students will be able to apply their knowledge of Data Analytics in dealing with the contemporary real world business problems effectively.
- CO4: Students will be able to analyze business problems involving Data Analytics.
- CO5: Students will be able to evaluate real world data to take efficient business decisions.
- CO6: Students will be able to create newer ideas while dealing with the issues of Data Analytics and will also be able to ensure their overall development.

Course content:

Modules	Serial of Modules	Text Book as per	Total	CO
		Syllabus	hours of	
			teaching	
M I:	Data, Information, Knowledge, and	1. Big Data	10	CO1
Introduction	Wisdom; Types of Data – Qualitative-	Analytics		,
to Data	Nominal-Ordinal and Quantitative	Applications in		CO2
Analytics	Continuous – Discrete; Dimensions of	Business and		
	Data Quality- Accuracy – Completeness –	Marketing:		
	Consistency – Timeliness – Uniqueness –	KiranChaudhary		
	Validity; Data Science; Big Data –	and MansafAlam-		
	Sources, Types of Big Data–Structured –	CRC Press.		

	Unstructured – Semi-structured –	2. Big Data		
	Metadata; Characteristics of Big Data –	Fundamentals		
	Volume – Velocity – Variety – Veracity –	Concepts Drivers		
	Value; Data Analytics – Descriptive –	and Techniques:		
	Diagnostic – Predictive – Prescriptive;	Thomas Erl,		
	Applications of Data Analytics in	WajidKhattak and		
	Business –Production and Inventory	Paul Buhler-		
	Management – Sales and Operations	Prentice Hall.		
	Management – Finance and Investment –	3. Business		
	Marketing Research –Human Resource	Analytics A		
	Management.	Management		
		Approach: Richard		
		Vidgen, Sam		
		Krishner and Felix		
		Tan- Macmilan		
		International		
		Higher Education (
		Red Globe Press)		
	Data Collection Strategies; Data Pre-	1. Data Mining	10	CO2
M II:	Processing Overview – Need for Data	Concepts and		,
Data	Pre-processing - Data Pre-processing	Techniques - Jiawei		CO3
Collection	Methods - Data Cleaning - Data Objects	Han, Micheline		,
and Data	and Attributes –Filling up Missing	Kamber and Jian		CO4
Pre-	Values; Noisy Data – Binning –	Pei - Morgan		
Processing	Regression – Clustering; Data Integration	Kaufmann		
	– Entity Identification Problem –	Publishers (Imprint		
	Redundancy and Correlation – Chi-square	of Elsevier)		
	test- correlation coefficient – covariance –	2. Data Mining and		
	Data Value Conflict Detection and	Warehousing		
	Resolution; Data Transformation – Data	Principals and		
	Transformation Strategies Overview –	Practical		

BBA BA Syllabus Session: 2023-2027

	Data Transformation by Normalization;	Techniques –		
	Data Reduction – Overview of Data	Parteek Bhatia -		
	Reduction Strategies – Principal	Cambridge		
	Component Analysis – Attribute Subset	University Press		
	Selection.	3. Fundamentals of		
		Machine Learning		
		for Predictive Data		
		Analytics – The		
		MIT Press: John D.		
		Kelleher, Brian		
		Mac Namee, and		
		Aoife D'Arcy.		
		4. A Hands –on		
		Introduction to		
		Data Science –		
		Cambridge		
		University Press:		
		Chirag Shah		
	Stem andLeaf Diagram, Calculation of	1. Business	10	CO3
M III:	Mean for Ungrouped and Grouped Data	Mathematics		,
Exploratory	-Assumed Mean Method- Step	and statistics -		CO4
Data	Deviation Method; Calculation of	Asim Kumar		,
Analytics	Median, Mode and Quartiles; Mean	Manna -		CO5
and	Deviation from Mean and Median of	McGraw Hill		
Descriptive	Ungrouped and Grouped Data;	Education (India)		
Statistics	Calculation of Variance and Standard			
	Deviation from Ungrouped and Grouped	2. Business		
	Data; Skewness – Meaning – Measures	StatisticsProblems		
	of Skewness -Karl Pearson and	and Solutions – J K		
	Bowley's Coefficient of Skewness;	Sharma – Pearson		
	Analysis of Variance.			



		3. Business		
		Mathematics		
		and Statistics -		
		(Late) N G Das and		
		J K Das - Tata		
		McGraw Hill		
		Education Private		
		Limited		
	Scatter Diagram, KarlPearson's	1. Principles of	10	CO2,
M IV:	Correlation Coefficient – Spearman Rank	Econometrics,		CO3,
Correlation	Correlation Coefficient; SimpleLinear	Sankar Kumar		CO4,
and Regression	Regression: Introduction - Overview -	Bhaumik, Oxford		CO5
	Importance -Least Square Method-	University Press		
	Normal Equations - Calculation of	2. Basic		
	Regression Coefficients - Properties of	Econometrics -		
	Regression Line – Uses of Regression;	D.N. Gujarati and		
	MultipleLinear Regression: Overview –	D.C. Porter, Tata		
	Importance - Least Square Method	McGraw Hill.		
	Normal Equations – Calculation of	3. Introduction to		
	Regression Coefficients - Properties of	Econometrics –		
	OLS Regression Line – Properties of OLS	GMK Madnani –		
	Estimators – BLUE Properties –	Oxford and IBH		
	Measuring Goodness of FIT –Adjusted R	Publishing Co Pvt		
	square – Testing Overall Significance of	Ltd		
	Regression – Testing Relevance of an			
	Additional Explanatory Variable			

Recommended Study Materials:

- 1. Big Data Analytics Applications in Business and Marketing: Kiran Chaudhary and Mansaf Alam- CRC Press.
- 2. Big Data Fundamentals Concepts Drivers and Techniques: Thomas Erl, Wajid Khattak and Paul Buhler- Prentice Hall.

BBA BA Syllabus



3. Business Analytics A Management Approach: Richard Vidgen, Sam Krishner and Felix Tan-Macmilan International Higher Education (Red Globe Press)

Session: 2023-2027

- 4. Data Mining Concepts and Techniques Jiawei Han, Micheline Kamber and Jian Pei Morgan Kaufmann Publishers (Imprint of Elsevier)
- Data Mining and Warehousing Principals and Practical Techniques Parteek Bhatia -Cambridge University Press
- 6. Fundamentals of Machine Learning for Predictive Data Analytics The MIT Press: John D. Kelleher, Brian Mac Namee, and Aoife D'Arcy.
- 7. A Hands –on Introduction to Data Science Cambridge University Press: Chirag Shah.
- 8. Business Mathematics and statistics Asim Kumar Manna McGraw Hill Education (India)
- 9. Business StatisticsProblems and Solutions J K Sharma Pearson
- 10. Business Mathematics and Statistics (Late) N G Das and J K Das Tata McGraw Hill Education Private Limited
- 11. Principles of Econometrics, Sankar Kumar Bhaumik, Oxford University Press
- 12. Basic Econometrics D.N. Gujarati and D.C. Porter, Tata McGraw Hill.
- 13. Introduction to Econometrics GMK Madnani Oxford and IBH Publishing Co Pvt Ltd

CO-PO Mapping:

СО	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8
BBABB502.1	3	3	3			3	2	
BBABB502.2	3	3	3			3	2	
BBABB502.3	3	3	3			3	3	
BBABB502.4	3	3	3			3	3	
BBABB502.5	3	2	3			3	3	
BBABB502.6	2	2	3			3	3	

3= Strong 2=Average 1=Weak (Kindly mention the Number only)

11 8	
PO1: Assessment of Choices	
Students will develop the capability to assess al	Iternate managerial choices and come up with
optimal solutions.	
Competency	Indicators
1.1 Demonstrate competencies in Business	1.1.1. Ability to take up analytical approach
Construction Model & Decision Making	for problem solving

Construction Model & Decision- Making	for problem solving,
Model	1.1.2. ability to take into consideration
	minute details and factors that influences a
1.2 Demonstrate competencies in evaluation	business.
of each of the alternatives	1.2.1 Ability to weigh the pros and cons of
	each of the alternatives or options available to

BBA BA Syllabus Session: 2023-2027 a functional area of a business. PO 2: Identification of the Nature of a Problem Area Students will be able to apply their conceptual understanding of marketing, finance and human resources in the real world. **Competency Indicators** 2.1. Demonstrate an ability to identify an area 2.1.1 Ability to contribute towards problem that requires problem solving. solving methods, 2.1.2 Understanding a problem or issue 2.2 Demonstrate an ability to assess the business environment and understand their belongs to which of the specialized areas of data analytics- Descriptive, Diagnostic, impact on the business. Predictive and Prescriptive. 2.2.1 To be able to identify the different factors that influences the business. **PO 3: Decision Making Skills:** Students will develop decision making skills with the help of analytical and critical thinking ability. Competency **Indicators** 3.1 To be able to demonstrate the different 3.1.1 Capability of suggesting a decision aspects that can get influenced by the decision after proper assessment taken within the business. 3.2 To be able to demonstrate the optimal 3.2.1 Reaching to a solution and evaluating it solution or close to an optimal solution to a after observing the changes (Case study method can be implemented) given managerial problem. **PO6: Integration of Functions:** Students will be able to integrate functional areas of management for planning, implementation and control of business decisions. Competency **Indicators** 6.1 Demonstration of the ability to identify 6.1.1. Continuation of Professional gaps in a business strategy, and to be able to development and observation skills, close these gaps. 6.1.2. Using rational approach towards an 6.2 Demonstrate the identification changing trends in a business and operation of 6.2.1. Ability to study the changes in the functional areas accordingly. preferences of customers. PO 7: Deployable Skill set: Students will develop deployable skills parallel to the chosen functional/ specialized area Competency **Indicators** 7.1 Demonstrating the ability to identify the 7.1.1 Acknowledgement of the existence of a nature of a problem appearing during the problem. course of business. 7.2 Demonstrating the ability to apply the 7.1.2. Ability to implement the required learned skill set as when required knowhow as when necessity arises. Submitted by: Prof. Arindam Roy

(Signature & Date)

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(Name)



Received by:			
	(HOD)	(Signature & Date)	

Course Code	BBABB503					
Course Title				Business	s Law	
Scheme and Credits	L	T	P	S	Credits	Semester
	6	0	0	0	6	
Pre-requisite (if any)	Basic Concept of Legal Framework in Business Operation					

- 1. To make the students understand the fundamental concepts of various Laws applicable in Business.
- **2.** To familiarize the students with Agreements, Contracts and their differences.
- **3.** Students to know the legalities involved in efficient & effective operation of business.
- 4. Students to be made aware about the rights & privileges due to the employees.
- 5. Students to understand the importance of consumers and their rights.

Course Outcome:

- CO1: Students would be proficient and knowledgeable about legalities involved in the business arena.
- CO2: Students would be capable to bring in discipline in the operation by providing legitimate benefits to the workforce.
- CO3: Students would ensure customers' protection.
- CO4: Students would be familiar to conduct company's operation by maintaining proper regulations & norms.
- CO5: Students would be capable to bring about a healthy and congenial business environment by operating within the stipulated legal framework.
- CO6: Students would reap benefits of Digital Business Transformation. Should also be conversant with up-to-date cyber law.

			Total	Blooms
M - J1	Carial af Madalan	Text Book as	hours of	Level
Modules	Serial of Modules	per Syllabus		
			g	

MI:	Law of Contract (Indian Contract Act,1872). Introduction / Meaning of Contract / Classification of contract / Essentials of a valid contract / Performance of contract / Quasi contracts / Breach of contract & its remedies Special Contract : Indemnity; Guarantee; Bailment and pledge; Agency. Sale of Goods Act,1930. Contract of Sale of Goods / Conditions and warranties / Transfer of Property / Performance of Contract of sale / Rights of unpaid seller.	Tulsian : Business Law, TMH.	20	CO1 CO2 CO3 CO4 CO5 CO6
MII:	Negotiable Instruments Act, 1881. Negotiable Instruments / Parties to Negotiable Instruments / Negotiations of Negotiable Instruments / Dishonour and Discharge of Negotiable Instruments / Crossing and Bouncing of cheques. Arbitration and Conciliation Act, 1996. General Provisions Regarding Arbitration / Arbitral Tribunal / Arbitration Proceedings / Conciliation / Enforcement of certain Foreign Awards.	Tulsian : Business Law, TMH.	16	CO1 CO2 CO3 CO4 CO5 CO6
MIII:	Consumer Protection Act, 1986. Workmen Compensation, ESI. Information Technology Act (Cyber Law), 2000.	Tulsian : Business Law, TMH.	12	CO1 CO2 CO3 CO4 CO5
MIV:	The Companies Act, 1956 The Company's Act and its Administration / The Company: Its Nature and kinds / Formation of a Company / Memorandum of Association / Articles of Association / Prospectus / Allotment of Shares / Shares and Share Capital / Share Certificate and Share Warrant / Shareholders or Members / Transfer and Transmission of Shares / Calls and Forfeiture of Shares / Company Management / Meetings and Resolution / Borrowing powers and Methods / Dividends / Accounts and Audit / Prevention of Oppression and Mismanagement / Compromise, Arrangements, Reconstruction and Amalgamation.	Tulsian : Business Law, TMH.	12	CO1 CO2 CO3 CO4



Reference:

1. Sen & Mitra: Commercial Law, World Press.

2. Pathak: Legal Aspect of Business, TMH.

3. Tejpal Sheth: Business Law, 3/e, Pearson.

4. Das & Ghosh: Business Regulatory Framework, Ocean Publication, Delhi.

5. Pillai & Bagavathi: Business Law, S Chand

6. Tulsian: Business Law, TMH.

7. Business Law by N. D. Kapur

CO & PO Mapping:

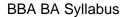
Course Outcomes	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8
BBABB503.1	3	3	2	1		1	2	1
BBABB503.2	2	3	2	1	2	2	2	
BBABB503.3	3	3	2	1	2	1	2	
BBABB503.4	3	3	2	1	1	1	3	1

^{*3=} Strong 2=Average 1=Weak

Submitted by: Shaibal Kumar Sen	25.07.2023
(Name)	(Signature & Date)
Received by:	
(HOD)	(Signature & Date)

Specialization: BUSINESS ANALYTICS

Course code	BBABA504
Course title	Programming in Python





Scheme and Credits	L	Т	P	S	Credits	Semester-	
	4	0	0	0	4	V	
Pre-requisite (if any)	Basic knowledge of Computer programming in Python for Business Analytics purposes						

Course Objectives:

- **5.** To enable the students to understand the fundamental concepts of programming
- **6.** To enable the students to understand the fundamental concepts of programming language in business analytics
- **7.** To enable the students to understand the relevance of python as a programming language in commercial organization.
- **8.** To understand the logic of designing an effective language skill in a corporate.

Course Outcomes:

CO1: Students can apply visualization tools in corporate

CO2: Students can apply basic principles of computers

CO3: Students can apply the binary computation

CO4: Students can implement the programming basics (operations, control structures, data types, etc.)

Course Content:

Modules	Serial of Modules	Text Book as	Total	CO
		per Syllabus	hours	
			of	
			teachi	
			ng	
Introducti	Introduction	2. Atanu Das ,	8	CO
on To	Relationship between computers and	Rajkumar Patra		1
programm	programs	-Python		
_	Basic principles of computers	Programming		
ing	File systems	for Computer		
language	Using the Python interpreter	Science and		
	Introduction to binary computation	Application		
	Input /Output			
	Data types and control structures	1.Atanu Das ,	8	CO
Data	Operators (unary, arithmetic, etc.)	Rajkumar Patra -		2
	Data types, variables, expressions, and	Python		
Types and	statements	Programming for		
Control	Assignment statements	Computer		
Structures	Strings and string operations	Science and		



	Control Structures: loops and decision	Application		
Classes	Modularization and Classes Standard modulesPackages Defining ClassesDefining functionsFunctions and arguments(signature)	1.Atanu Das , Rajkumar Patra - Python Programming for Computer Science and Application	8	CO 3
Exception Handling	Exceptions and data structures Data Structures (array, List, Dictionary) Error processing Exception Raising and Handling	1.Atanu Das , Rajkumar Patra - Python Programming for Computer Science and Application	8	CO 3
Object Oriented Design	Object oriented designProgramming typesObject Oriented Programming Object Oriented DesignInheritance and Polymorphism	1.Atanu Das , Rajkumar Patra - Python Programming for Computer Science and Application	8	CO4

Suggested Readings:

1. Atanu Das , Rajkumar Patra - Python Programming for Computer Science and Application

CO-PO Mapping:

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8
BBABA504.1			2	3			1	2
BBABA504.2			2	3			2	2
BBABA504.3			1	1			1	2
BBABA504.4			1	1			3	3

3= Strong 2=Average 1=Weak

Competency	Indicators
PO3: Decision Making Skills	
3.1. To be able to demonstrate the	3.1.1. Capability of implementation of a decision
different aspects that can get influenced	after proper assessment.

by the decision taken within the business.	3.1.2. Follow up the changes that are occurring		
3.2. To be able to demonstrate the	due to the implementation (situation analysis		
optimal solution or close to an optimal	methods can be of use)		
solution to a given managerial problem	3.2.1 Reaching to a solution and evaluating it after		
	observing the changes (Case study method can be		
	implemented)		
Competency	Indicators		
PO4: Communication Skills			
4.1. To Demonstrate the ability to make	4.1.1. Ability to choose appropriate words when		
effective business communication.	making verbal communication,		
	4.1.2. To be able to select proper language and		
	words when making written communication.		
Competency	Indicators		
DO7. Deployable Civil get			
PO7: Deployable Skill set			
7.1. Demonstrating the ability to identify	7.1.1. Acknowledgement of the existence of a		
the nature of a problem appearing during	problem.		
the course of business.	7.1.2. Deciding the overall nature of the problem		
7.2. Demonstrating the ability to apply	and its minor details.		
the learned skill set as when required.	7.2.1. Ability to implement the required knowhow		
	as when necessity arises.		
PO8: Moral Sensitivity			
8.1. To Demonstrate the ability to	8.1.1. The ability to identify the confusion or the		
identify that there is a moral dilemma.	dilemma that is in existence.		
	8.2.1. Ability to select the best path that will serve		
8.2. Demonstration of the ability to solve	to a bigger interest of the stakeholders and the		
the moral dilemma.	society.		
Submitted by: Prof. Sayan Karmakar			
<u> </u>			
(Name)	(Signature & Date)		
Received by:			
10001104 09 .			
(HOD)	(Signature & Date)		

Course code	BBABA591
Course title	Programming in Python





Scheme and Credits	L	Т	P	S	Credits	Semester-
	0	0	2	0	2	V
Pre-requisite (if any)	Basi	Basic knowledge of Computer programming in for Business Analytics purposes				

Course Objectives:

- 1. To enable the students to understand the fundamental concepts of programming
- **3.** To enable the students to understand the fundamental concepts of programming language in business analytics
- **4.** To enable the students to understand the relevance of python as a programming language in commercial organization.
- **5.** To understand the logic of designing an effective language skill in a corporate.

Course Outcomes:

CO1: Students can apply visualization tools in corporates

CO2: Students can apply basic operations of computer programming

CO3: Students can apply the binary computation

CO4: Students can implement the programming basics (operations, control structures, data types, etc.)

Modules	Serial of Modules	Text Book as per	Tota	CO
		Syllabus	1	
		-	hour	
			s of	
			teac	
			hing	
Introductio	Using the Python interpreter	3. Atanu Das ,	4	CO
n To	Introduction to binary computation	Rajkumar Patra -		1
programmi	Input /Output	Python		
•		Programming for		
ng		Computer		
language		Science and		
		Application		
	Data types and control structures	1.Atanu Das ,	4	CO
Data Types	Operators (unary, arithmetic, etc.)	Rajkumar Patra -		2
	Data types, variables, expressions, and	Python		_
and	statements	Programming for		
Control	Assignment statements	Computer Science		
Structures	Strings and string operations	and Application		



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	Control Structures: loops and decision			
Classes	Modularization and Classes Standard modulesPackages Defining ClassesDefining functions	1.Atanu Das , Rajkumar Patra - Python Programming for Computer Science	4	3
	Functions and arguments(signature)	and Application		
Exception Handling	Exceptions and data structures Data Structures (array, List, Dictionary) Error processing Exception Raising and Handling	1.Atanu Das , Rajkumar Patra - Python Programming for Computer Science and Application	4	CO 3
Object Oriented Design	Object oriented designProgramming typesObject Oriented Programming	1.Atanu Das , Rajkumar Patra - Python Programming for Computer Science and Application	4	CO4

Suggested Readings:

1. Atanu Das, Rajkumar Patra - Python Programming for Computer Science and Application

CO-PO Mapping:

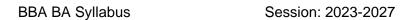
11 0								
CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8
BBABA591.1			2	3			1	2
BBABA591.2			2	3			2	2
BBABA591.3			1	1			1	2
BBABA591.4			1	1			3	3

3= Strong 2=Average 1=Weak

Competency	Indicators				
PO3: Decision Making Skills					
3.1. To be able to demonstrate the	3.1.1. Capability of implementation of a decision				
different aspects that can get influenced	after proper assessment.				
by the decision taken within the business.	3.1.2. Follow up the changes that are occurring				
3.2. To be able to demonstrate the	due to the implementation (situation analysis				
optimal solution or close to an optimal	methods can be of use)				
solution to a given managerial problem	3.2.1 Reaching to a solution and evaluating it after				
	observing the changes (Case study method can be				

	implemented)		
Competency	Indicators		
PO4: Communication Skills			
4.1. To Demonstrate the ability to make	4.1.1. Ability to choose appropriate words when		
effective business communication.	making verbal communication,		
	4.1.2. To be able to select proper language and		
	words when making written communication.		
Competency	Indicators		
PO7: Deployable Skill set			
7.1. Demonstrating the ability to identify	7.1.1. Acknowledgement of the existence of a		
the nature of a problem appearing during	problem.		
the course of business.	7.1.2. Deciding the overall nature of the problem		
7.2. Demonstrating the ability to apply	and its minor details.		
the learned skill set as when required.	7.2.1. Ability to implement the required knowhow		
	as when necessity arises.		
PO8: Moral Sensitivity			
8.1. To Demonstrate the ability to	8.1.1. The ability to identify the confusion or the		
identify that there is a moral dilemma.	dilemma that is in existence.		
	8.2.1. Ability to select the best path that will serve		
8.2. Demonstration of the ability to solve	to a bigger interest of the stakeholders and the		
the moral dilemma.	society.		
Submitted by : Prof. Sayan Karmakar			
(Name)	(Signature & Date)		
Received by:			
(HOD)	(Signature & Date)		
	-		

Course code	BBABA505						
Course title	Data Visualization						
Scheme and Credits	L	L T P S Credits Semester-					
	4	0	0	0	4	V	



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<i>×</i>			
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2	SCHOOL SEC	- 1 L	
-	_		

Pre-requisite (if	Basic knowledge of visualization tools for Business Analytics
any)	purposes

Course Objectives:

- **9.** To enable the students to understand the fundamental concepts of visualization
- **10.** To enable the students to understand the fundamental concepts of visualization tools in business analytics
- 11. To enable the students to understand the relevance of data visualization in commercial organization.
- **12.** To understand the logic of designing an effective visualization dashboard in a corporate.

Course Outcomes:

CO1: Students can apply visualization tools in corporate

CO2: Students can connect the history of data visualization and its connection with computer graphics

CO3: Students can understand various types of data types

CO4: Students can examine the visualization of structured data

Modules	Serial of Modules	Text Book as per	Tot	CO
		Syllabus	al	
			hou	
			rs	
			of	
			tea	
			chi	
			ng	
Introductio	Introduction	4. Sharada	8	CO
n	What is Data visualization? Why do we have to visualize data? How do we visualize? Seven stages of visualizing data Usage of visualization Types of charts Common chart selection questions Introductiontobinary computation Input /Output	Singeswara, Tiwari, U. Dinesh Kumar- Data Visualization: Storytelling using data		1
Visualizatio n best practices	 - Importance of data visualization - Data types - effectiveness of visual encodings - color 	Sharada Singeswara, Tiwari, U. Dinesh Kumar- Data Visualization:	8	CO 2
practices	- Edward Tufte's Design principles Can chart junk be useful?	Storytelling using data		



Visualizatio	Exploratory analysis	Sharada Singeswara,	8	CO
n of	Modelling	Tiwari, U. Dinesh		3
structured	Visualisation during deployment	Kumar- Data		5
	Business operation dashboard	Visualization:		
data		Storytelling using data		
Visualizatio	Importance of text data visualization	Sharada Singeswara,	8	CO
n of	Challenges of text data visualization	Tiwari, U. Dinesh		3
Unstructure	Various form of text data	Kumar- Data		3
	Text data pre-processing pipeline	Visualization :		
d data	Visualization text data	Storytelling using		
	Visualizing conversations	data		
Storytelling	Why storytelling matters?	Sharada Singeswara,	8	CO4
framework	Science behind storytelling	Tiwari, U. Dinesh		
	Presentation types	Kumar- Data		
	Storytelling frameworks	Visualization:		
	Data storytelling	Storytelling using data		
	Analytics board			

Suggested Readings:

BBA BA Syllabus

1. Sharada Singeswara, Tiwari, U. Dinesh Kumar- Data Visualization: Storytelling using data

CO-PO Mapping:

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8
BBABA592.1			2	3			1	2
BBABA592.2			2	3			2	2
BBABA592.3			1	1			1	2
BBABA592.4			1	1			3	3

³⁼ Strong 2=Average 1=Weak

10 & 11 Mapping.	
Competency	Indicators
PO3: Decision Making Skills	
3.1. To be able to demonstrate the	3.1.1. Capability of implementation of a decision
different aspects that can get influenced	after proper assessment.
by the decision taken within the business.	3.1.2. Follow up the changes that are occurring
3.2. To be able to demonstrate the	due to the implementation (situation analysis
optimal solution or close to an optimal	methods can be of use)
solution to a given managerial problem	3.2.1 Reaching to a solution and evaluating it after
	observing the changes (Case study method can be
	implemented)
Competency	Indicators
PO4: Communication Skills	
4.1. To Demonstrate the ability to make	4.1.1. Ability to choose appropriate words when
effective business communication.	making verbal communication,
	4.1.2. To be able to select proper language and

(Signature & Date)

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	words when making written communication.
Competency	Indicators
PO7: Deployable Skill set	
7.1. Demonstrating the ability to identify the nature of a problem appearing during the course of business.7.2. Demonstrating the ability to apply the learned skill set as when required.	7.1.1. Acknowledgement of the existence of a problem.7.1.2. Deciding the overall nature of the problem and its minor details.7.2.1. Ability to implement the required knowhow as when necessity arises.
PO8: Moral Sensitivity	
8.1. To Demonstrate the ability to identify that there is a moral dilemma.8.2. Demonstration of the ability to solve the moral dilemma.	8.1.1. The ability to identify the confusion or the dilemma that is in existence.8.2.1. Ability to select the best path that will serve to a bigger interest of the stakeholders and the society.
Submitted by: Prof. Sayan Karmakar	
(Name)	(Signature & Date)
Received by:	

Course code		BBABA592				
Course title		Data Visualization				
Scheme and Credits	L	Т	P	S	Credits	Semester-
	0	0	2	0	2	V
Pre-requisite (if any)		Basic knowledge of visualization tools for Business Analytics purposes				

Course Objectives:

1. To enable the students to understand the fundamental concepts of visualization

(HOD)



- **6.** To enable the students to understand the fundamental concepts of visualization tools in business analytics
- **7.** To enable the students to understand the relevance of data visualization in commercial organization.
- **8.** To understand the logic of designing an effective visualization dashboard in a corporate.

Course Outcomes:

CO1: Students can apply visualization tools in corporate

CO2: Students can connect the history of data visualization and its connection with computer graphics

CO3: Students can understand various types of data types

CO4: Students can examine the visualization of structured data

Modules	Serial of Modules	Text Book as per	Tot	CO
		Syllabus	al	
			hou	
			rs	
			of	
			tea	
			chi	
			ng	
Introductio n	Usage of visualization - Types of charts Common chart selection questions Introductiontobinary computation Input /Output	5. SharadaSingeswara, Tiwari, U. Dinesh Kumar- Data Visualization: Storytelling using data	4	CO 1
Visualizatio n best practices	- Data types- effectiveness of visual encodings- color	SharadaSingeswara, Tiwari, U. Dinesh Kumar- Data Visualization: Storytelling using data	4	CO 2
Visualizatio n of structured data	Exploratory analysis Modelling Visualisation during deployment Business operation dashboard	SharadaSingeswara, Tiwari, U. Dinesh Kumar- Data Visualization: Storytelling using data	4	CO 3
Visualizatio n of Unstructure d data	Various form of text data Text data pre-processing pipeline Visualization text data Visualizing conversations	SharadaSingeswara, Tiwari, U. Dinesh Kumar- Data Visualization : Storytelling using data	4	CO 3



Storytelling	Science behind storytelling	SharadaSingeswara,	4	CO4
framework	Presentation types	Tiwari, U. Dinesh		
	Storytelling frameworks	Kumar- Data		
	Data storytelling	Visualization:		
	Analytics board	Storytelling using data		

Suggested Readings:

BBA BA Syllabus

1. Sharada Singeswara, Tiwari, U. Dinesh Kumar- Data Visualization : Storytelling using data

CO-PO Mapping:

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8
BBABA592.1			2	3			1	2
BBABA592.2			2	3			2	2
BBABA592.3			1	1			1	2
BBABA592.4			1	1			3	3

³⁼ Strong 2=Average 1=Weak

Competency	Indicators
PO3: Decision Making Skills	
3.1. To be able to demonstrate the	3.1.1. Capability of implementation of a decision
different aspects that can get influenced	after proper assessment.
by the decision taken within the business.	3.1.2. Follow up the changes that are occurring
3.2. To be able to demonstrate the	due to the implementation (situation analysis
optimal solution or close to an optimal	methods can be of use)
solution to a given managerial problem	3.2.1 Reaching to a solution and evaluating it after
	observing the changes (Case study method can be
	implemented)
Competency	Indicators
PO4: Communication Skills	
4.1. To Demonstrate the ability to make	4.1.1. Ability to choose appropriate words when
effective business communication.	making verbal communication,
	4.1.2. To be able to select proper language and
	words when making written communication.
Competency	Indicators
PO7: Deployable Skill set	
7.1. Demonstrating the ability to identify	7.1.1. Acknowledgement of the existence of a
the nature of a problem appearing during	problem.
the course of business.	7.1.2. Deciding the overall nature of the problem
7.2. Demonstrating the ability to apply	and its minor details.
the learned skill set as when required.	7.2.1. Ability to implement the required knowhow
	as when necessity arises.
PO8: Moral Sensitivity	





8.1. To Demonstrate the ability to 8.1.1. The ability to identify the confusion or the identify that there is a moral dilemma. dilemma that is in existence. 8.2.1. Ability to select the best path that will serve 8.2. Demonstration of the ability to solve to a bigger interest of the stakeholders and the the moral dilemma.

society.

Submitted by: Prof. Sayan Karmakar (Name) (Signature & Date) Received by: (Signature & Date) (HOD)

Course code	BBABA506					
Course title	BUSINESS FORECASTING TECHNIQUES Contents Forecasting Techniques of Business					
Scheme and Credits	L	Т	P	S	Credits	Semester-
	6	0	0	0	6	V
Pre-requisite (if any)	Basic knowledge of Mathematics and Statistics					

Course Objective:

- 1. To enable the students to understand the fundamental concepts of forecasting.
- 2. To enable the students to understand the methods of forecasting in predicting future demands of a product or service.
- 3. To enable the students to understand the strategic relevance of the different forecasting methods in commercial organization.
- 4. To emphasize the need for a new strategic decision-making approach within a firm based on the Business Forecasting Orientation.

Course Outcome: Student will

- CO1: Learn the fundamental concepts of 'Business Forecasting'.
- CO2: Understand the value of Business Forecasting asdecision making tools in increasing the business revenue.



CO3: Be able to apply the fundamentals to understand how to reach to the 'Perceived choice' – consumer's purchase decision, producer's decision.

CO4: Be able to analyze the underlying causes related to any changes impacting a business.

CO5: Be able to evaluate the impact of any strategic decision made using Business Forecasting methods.

CO6: Be able to prepare future strategy pertaining to a product and its market.

Modules	Serial of Modules	Text Book as per Syllabus	Total hours of teachin	Blooms Level
Fundamenta Is of Business Forecasting	Introduction, Need and scope of forecasting, Time series and cross sectional data, Graphical summaries – Time plots and time series patterns, Seasonal plots, Scatter plots, Univariatestatistics - MAD,MSD, Variance, Standard Deviation, Bivariate Statistics – Covariance, Correlation coefficient, Autocovariance and Autocorrelation coefficients, Measuring Forecast Accuracy – ME, MAE, MSE, MPE, MAPE.	6. Spyros Makridakis, Steven C. Wheelwright and Rob J Hyndman: FORECASTING METHODS AND APPLICATIONS:, Wiley India Editions, 3rd edition 7. John E Hanke, Dean W Wichern: Business Forecasting, PHI (old edition)	10	CO1, CO2, CO3
Time Series Smoothing Techniques	Principle of decomposition of time series, Moving Average Methods – Smiple, Centred and Double Moving Average; Exponential Smoothing Methods – Single Exponential Smoothing, Holt's linear methods, Holt Winters' trend and seasonality method, Exponential smoothing – Pegels' classifications	9. Spyros Makridakis, Steven C. Wheelwright and Rob J Hyndman: FORECASTING METHODS AND APPLICATIONS:, Wiley India Editions, 3rd edition. 10. John E Hanke, Dean W Wichern: Business Forecasting, PHI (old edition)	15	CO2, CO3, CO4

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Linear	Stochastic Process, Stationary	1. Sankar Kumar	20	CO1,
Time Series	Stochastic Process, Non-Stationary	Bhaumik: Principles of		CO2,
Models	Stochastic Process (Random Walk),	Econometrics, Oxford		CO3,
	Random Walk without Drift, Random	University Press		CO4,
	Walk with Drift, Tests for Stationarity	2. Robert S Pindyck&		CO5
	– Box-Pierce Test, Ljung-Box Test,	Daniel L Rubinfeld:		
	Unit Root Test.	ECONOMETRIC		
	Simple AR Models – AR(1), AR(2), AR(p) , , Properties of AR Models- Variance, Covariances (k-lag), ACF, Stationarity, Yule-Walker	MODELS AND ECONOMIC FORECASTS, McGRAW Hill International Editions		
	equations.	3. Jonathan D Cryer,		
	Simple MA Models – MA(1), MA(2),	Kung Sik Chan: Time		
	MA(q), Properties of MA Models-	Series Analysis with		
	Variance, Covariances(k-lag),	Applications in R,		
	ACF.Stationarity	Springer		
	Dual relationship between AR(p) and			
	MA(q) process.			
	Simple ARMA Models -ARMA(p,q),	1. Rubey S Tsay:	15	CO3,
ARMA &	1	Analysis of Financial		CO4,
ARIMA	Variance, Covariances(k-lag), ACF	Time Series, John Wiley		CO5,
	Backward shift operator, Non	and Sons		CO6
	Seasonal ARIMA Models-	2.Spyros Makridakis,		
	ARIMA(p,d,q) Models with examples,	Steven C. Wheelwright		
	Seasonal ARIMA Models –	and Rob J Hyndman:		
	ARIMA(p,d,q)(P,D,Q)s	FORECASTING		
		METHODS AND		
		APPLICATIONS:,		
		Wiley India Editions,		
		3rd edition		
		3. Jonathan D Cryer, Kung Sik Chan: Time		
		Series Analysis with		
		Applications in R,		
		Springer III IX,		

Suggested Readings:

- 1. Spyros Makridakis, Steven C. Wheelwright and Rob J Hyndman: FORECASTING METHODS AND APPLICATIONS:, Wiley India Editions, 3rd edition
- 2. Jonathan D Cryer, Kung Sik Chan: Time Series Analysis with Applications in R, Springer
- 3. Sankar Kumar Bhaumik: Principles of Econometrics, Oxford University Press
- 4. Robert S Pindyck& Daniel L Rubinfeld: ECONOMETRIC MODELS AND ECONOMIC FORECASTS, McGRAW Hill International Editions
- 5. Rubey S Tsay: Analysis of Financial Time Series, John Wiley and Sons



6. George E P Box, G M Jenkins, G M Ljung, G C Reinsel: Time Series Analysis and Control, John Wiley and Sons

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7. John E Hanke, Dean W Wichern: Business Forecasting, PHI (old edition)

CO-PO Mapping:

CO	PO1	PO2	PO3	PO4	PO5	PO	PO7	PO8
						6		
BBABA506 .1		3	2			2	2	
BBABA506 .2		2	3			2	3	
BBABA506 .3		3	2			2	2	
BBABA506 .4		3	3			3	2	
BBABA506 .5		3	3			3	3	
BBABA506 .6		3	3			3	3	

*3= Strong 2=Average 1=Weak

PO 2: Identification of the Nature of a Problem	Area			
Competency	Indicators			
2.1. Demonstrate an ability to identify an area that requires problem solving.2.2 Demonstrate an ability to assess the business environment and understand their impact on the business.	2.1.1 Ability to contribute towards problem solving methods,2.1.2 Understanding a problem or issue belongs to which of the specialized areas- Finance, HR or marketing.2.2.1 To be able to identify the different factors			
	that influences the business.			
PO 3: Decision Making Skills				
Competency	Indicators			
3.1. To be able to demonstrate the different aspects that can get influenced by the decision taken within the business.	3.1.1. Capability of implementation of a decision after proper assessment.			
3.2. To be able to demonstrate the optimal solution or close to an optimal solution to a given managerial problem.	3.2.1 Reaching to a solution and evaluating it after observing the changes.			
PO 6: Integration of Functions	T 1 4			
Competency 6.1 Demonstration of the ability to identify gaps in a business strategy, and to be able to close these gaps. 6.2 Demonstrate the identification of changing trends in a business and operation of the functional areas accordingly.	Indicators 6.1.1. Continuation of Professional development and observation skills, 6.1.2. Using rational approach towards an issue. 6.2.1. Ability to study the changes in preferences of customers			
PO 7: Deployable Skill set				
Competency	Indicators			
7.1 Demonstrating the ability to identify the nature of a problem appearing during the course of business.	7.1.1 Acknowledgement of the existence of a problem, 7.1.2 Deciding the overall nature of the problem			

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(Name) (HOD)		(Signature & Date) (Signature & Date)	
	Prof. Arindam Roy (Name)	Prof. Arindam Roy (Name)	