

VIRUDHUNAGAR HINDU NADARS' SENTHIKUMARA NADAR COLLEGE

(An Autonomous Institution Affiliated to Madurai Kamaraj University)

Virudhunagar – 626 001.

Course Name : Bachelor of Business Administration (For those who joined in June 2023 and after)

Semester	Part	Subject	Hours	Credit	Int + Ext =Total	Local	Regional	National	Global	Professional Ethics	Gender	Human Values	Environment & Sustainability	Employability	Entrepreneurshi	Skill Development	Subject Code	Revised / New / No Change / Interchanged & Percentage of revision
	PART I	Tamil	6	3	25+75=100												U24PT31	Interchanged from II semester
	PART II	English	6	3	25+75=100												U24PE31	New
	CORE 5	Operations Management	4	4	25+75=100				\checkmark				~			~	U24BAC31	Interchanged from 1V and Revised 20%
III	CORE 6	Marketing Management	5	4	25+75=100				\checkmark				\checkmark	\checkmark			U24BAC32	Interchanged from IV
	CORE 7	Management Accounting	5	4	25+75=100				\checkmark							\checkmark	U24BAC33	Mark Change
	ALLIED 3	Business Statistics	4	3	25+75=100												U24MAAB31	Revised 25%
	SL	Value Education		3	25+75=100												U24VE31	New
		Total	30	24														
	PART I	Tamil	6	3	25+75=100												U24PT41	Interchanged from III semester
	PART II	English	6	3	25+75=100												U24PE41	New
	CORE 8	Financial Management	6	4	25+75=100				\checkmark							\checkmark	U24BAC41	Mark Change
IV	CORE 9	Research Methodology	6	4	25+75=100				\checkmark	~		\checkmark		\checkmark			U24BAC42	Interchanged from V and Revised 20%
	SBE 3	Personality Development	2	1	25+75=100				\checkmark			\checkmark					U24BAS41	Interchanged from VI and Revised 80%
	ALLIED 4	Business Mathematics	4	3	25+75=100												U24MAAB41	Revised 25%
	SL	Environmental Studies		2	25+75=100												U24ES41	New
		Total	30	20														

II Year BBA



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Year	Part	Subject	Credit	Int = Total	Code
I & II	Part V	NSS / NCC / Physical Education/ YRC / RRC	3	100 = 100	U22NS4 / U22NC4 / U22PS4 / U22YR4 / U22RR4

Semester	Part	Subject	Hours	Credits	Int+Ext = Total	Subject Code	Changed / Un changed
	CORE 11	BUSINESS LAW	5	4	25+75=100		
	CORE 12	Human Resource Management	5	4	25+75=100		
	CORE 13	OFFICE DOCUMENTATION PACKAGES	5	4	25+75=100		
v	CORE 14	BUSINESS ANALYTICS	6	4	25+75=100		
	ELECTIVE 1	RETAIL MANAGEMENT	4	3	25+75=100		
	ELECTIVE 2	FINANCIAL SERVICES	4	3	25+75=100		
	SBE 4	EMPLOYABILITY SKILLS	1	1	25+75=100		
	SBE 5	INTERNSHIP	-	1	40+60=100		
	SLC	GOODS AND SERVICES TAX	-	2	0+100=100		

Semester	Part	Subject	Hours	Credits	Int+Ext = Total	Subject Code	Changed / Un changed
	CORE 15	ORGANIZATIONAL BEHAVIOUR	5	4	25+75=100		
	CORE 16	LOGISTICS AND SUPPLY MANAGEMENT	4	4	25+75=100		
	CORE 17	BANKING LAW & PRACTICE	4	4	25+75=100		
VI	CORE 18	ENTREPRENEURSHIP	4	4	25+75=100		
VI	ELECTIVE 3	SALES MANAGEMENT	4	3	25+75=100		
	ELECTIVE 4	INDIAN CAPITAL MARKET	4	3	25+75=100		
	SBE 6	PROJECT	5	3	40+60=100		



SEMESTER - III

Course Title : Operations Management	Total Hours : 60 Hours
Course Code : U24BAC31	Total Credits : 4

Course Outcomes:

COs	CO Statement
CO1	Enlighten on various functions of production management and manufacturing
	Practices.
CO2	List out the factors affecting plant location and the principles of plant layout.
CO3	Describe material management with its objections, functions and its importance.
CO4	Understand concepts materials handling and production planning and control.
CO5	Impart knowledge about Quality control, Quality circles and TQM.

UNIT-1

[12 Hours]

[12 Hours]

Operations management: Meaning – scope - production systems - continuous production, Intermittent production ,mass & flow production, Batch production, Job order production.

UNIT-2

Plant location: Importance – Factors affecting plant location. Plant layout –Process layout, product layout, Fixed position layout.

UNIT-3

[12 Hours]

Material management: Classification of Materials - Objectives –Functional areas of Materials Management. Production Planning and Control: meaning and importance - Stages of Production Planning and Control.

UNIT-4

[12 Hours]

Plant Maintenance: Importance - Areas of maintenance- Types - Breakdown maintenance, Preventive Maintenance and predictive maintenance. Material Handling: Principles of Material Handling-Types of Material Handling Equipments.

UNIT-5

[12 Hours]

Quality control: Need and importance. Quality Circles and its benefits. TQM and its benefits. ISO 9000 series: Objectives – benefits – Steps in ISO 9000 Registration.

TEXT BOOK:

Production and Materials Management – P.Saravanavel, S.Sumathi, Margham Publications

Unit –I – 1.1-1.8,2.1-2.10. Unit –II –8.1-8.4,11.1-11.18 Unit –III –13.1-13.10,25.1-25.10,34.1-34.5 Unit –IV –32.1-32.10,16.1-16.15,22.1-22.10 Unit –V – 39.1-39.15,40.1-40.20.



REFERENCE BOOKS:

- 1. Production and Operations Management Dr.S.Anil Kumar, N.Suresh, New Age International Publishers.
- 2. Production and Operation Management- Dr.B.S.Goel, Pragati , Prakashanpublications.

e- Resources:

- 1. <u>https://youtu.be/tdZOjBODtE4</u>
- 2. https://youtu.be/2WRwXBhNN84
- 3. <u>https://youtu.be/VmXPqF9T7JQ</u>
- 4. <u>https://youtu.be/2Yd2HhKIsiE</u>
- 5. <u>https://youtu.be/JnFqveMoI-8</u>
- 6. <u>https://youtu.be/C4MHnVY-_rQ</u>

Course Title : Marketing Management	Total Hours : 75 Hours
Course Code : U24BAC32	Total Credits : 4

Course Outcomes:

COs	CO Statement
CO1	To facilitate the students to acquire knowledge of concepts of marketing.
CO2	To equip the students about product planning and pricing methods
CO3	To provide an information about channel members and promotional tools
CO4	To develop the knowledge on promotional aspects
CO5	To familiarize the students on services marketing concepts

Unit - 1:

[15 Hours]

[15 Hours]

[15 Hours]

[15 Hours]

Marketing: Definition – Nature of Marketing – Functions of marketing – Evolution of marketing concept - Concept of marketing mix. Market: Meaning – Classification of Markets. Product – Definition – Features of product – Classification of Product. Product policies: Product mix and product line. Product life cycle stages.

Unit - 2:

Branding: Meaning – Functions. Packaging: Meaning – Functions. Labeling: Meaning – Functions. Pricing – Objectives – Factors affecting price of a product – Kinds of pricing – Special problems in pricing – Price Discrimination.

Unit - 3:

Channels of distribution: Meaning – Importance – Factors influencing the selection of distribution channel. Middlemen: Meaning – Functions – Kinds. Wholesaler: Meaning – Services. Retailer: Meaning – Types–Services.

Unit - 4:

Promotion: Meaning – Objectives. Advertising: Meaning – Objectives – Kinds of advertising. Media of advertising: Kinds of advertising media. Sales promotion: Meaning – Importance -Types.

II – B.B.A.



Unit - 5:

[15 hours]

Marketing of Services: Definition of Services – Types of Services – Characteristics of Services – Difference between Goods and Services – Elements of Services marketing mix.

Text Book:

1) Marketing management – Dr.C.B.Gupta & Dr.N.Rajan Nair, Sultan Chand & Sons, New Delhi.

Unit - 1	1.4-1.19, 2.4-2.6, 5.15-5.18, 7.4-7.12 and 8.7-8.9
Unit - 2	7.14-7.25 and 9.5-9.20
Unit - 3	10.4-10.13 and 10.25-10.41
Unit - 4	12.4-12.7, 15.2-15.8, 13.2-13.5 and 13.13-13.19

2) Services Marketing – Vasanthi Venugopal and V.N.Raghu by Himalaya Publishing House.

Unit - 5	5-13 and 77-84	

Reference Books:

- 1) Marketing Management Philip kotler, Pearson Education, NewDelhi.
- 2) Marketing Management R.S.N Pillai & Bhagawathi, S.Chand Publications, NewDelhi.

e – Resources:

- 1. http://sdeuoc.ac.in/sites/default/files/sde_videos/B.Com-%20Marketing%20Management%202019%20Admn.pdf.
- 2. https://ddceutkal.ac.in/Syllabus/MCOM/Marketing_Management.pdf.
- 3. <u>https://ddceutkal.ac.in/Syllabus/MCOM/Marketing_Management.pdf</u>.
- 4. <u>https://www.youtube.com/watch?v=TL0K0AhI7kE</u>.
- 5. <u>https://www.youtube.com/watch?v=HK1N7JBP560</u>

Course Title : Management Accounting	Total Hours : 75 Hours
Course Code : U24BAC33	Total Credits : 4

Course Outcomes:

004100	c outcomes:			
Cos	CO Statement			
CO1	To impart basic and clear understanding of various concepts of management			
	accounting.			
CO2	To develop management reporting skill among the students.			
CO3	To educate the students on various management accounting tools and techniques.			
CO4	To expand the decision making and strategic planning skill using techniques like			
04	marginal costing, standard costing, budgeting etc			
CO5	To impart analytical skills among the students.			

Management Accounting: Meaning, nature, functions, advantages and disadvantages, Differences between Management Accounting and Financial accounting - Financial statement analysis - comparative, common size and trend percentages.

Unit II

Unit I

Ratio Analysis: meaning, merits and demerits - classification of ratios - Profitability ratios, Turnover ratios and financial ratios.

Unit III

Fund Flow statement: meaning, merits and demerits - Preparation of fund flow statement. Cash Flow statement: meaning, uses - Differences between Fund Flow statement and Cash Flow statement (Only theory).

Unit IV

Marginal costing: meaning, merits and demerits. Break-even analysis: Assumptions - Profit Volume ratio, Margin of Safety, Maintaining a desired level of profit. Standard Costing: meaning, merits and demerits - Material, Labour & Overheads only - Variance analysis.

Unit V

Budgetary Control: Meaning, objectives, merits and demerits - Classification of Budgets -(Problems only from Cash budget and Flexible budget).

Note: 60% marks for problems and 40% marks for theory.

Text Book:

1. "Management Accounting" R.S.N.Pillai and Bagavathi, S. Chand & Company Ltd., 2010

Unit I	Pg no 12-19; 41-54;
Unit II	Pg no 55 – 158;
Unit III	Pg no 179-261; 262 – 267;
Unit IV	Pg no 362-399; 431-454
Unit V	Pg no 465 – 512; 536-563

Reference Books:

1. Management Accounting., T.S.Reddy and Hariprasath Reddy

e- Resources:

- 1. <u>https://www.youtube.com/watch?v=O1SFesOJsxE</u>
- 2. https://www.youtube.com/watch?v=GoKIZqSFMIE
- 3. https://www.youtube.com/watch?v=GoKIZqSFMIE&list=RDCMUCe83jLdZ3PuqVwAHe6 B3U2A&index=1
- 4. https://www.youtube.com/watch?v=ROqkmlVuXKU&list=RDCMUCe83iLdZ3PuqVwAHe6 B3U2A&index=2
- 5. https://www.youtube.com/watch?v=BCaoQNkeoy0&list=RDCMUCe83jLdZ3PuqVwAHe6B 3U2A&index=3
- 6. https://www.youtube.com/watch?v=MTq7HuvoGck



15 Hours

15 Hours

15 Hours

15 Hours

15 Hours



- 7. <u>https://learn.financestrategists.com/explanation/management-accounting/what-is-und-flow-statement/</u>
- 8. <u>https://www.youtube.com/watch?v=mZBjsIYrLvM</u>
- 9. <u>https://www.youtube.com/watch?v=T0Gdvq7th64</u>
- 10. https://www.youtube.com/watch?v=6S4N08BmRMs
- 11. https://www.youtube.com/watch?v=INnPo0QPXf4
- 12. https://accountlearning.com/budgetary-control-objectives-advantages-disadvantages/

Course Title : BUSINESS STATISTICS	Total Hours : 60 Hours	
Course Code : U24MAAB31	Total Credits : 3	

Course Outcomes:

COs	CO Statement
CO1	To introduce data tabulation and graphical representation of Data
CO2	To inculcate the knowledge on measures of central tendency
CO3	To develop the knowledge of measures of deviation
CO4	To introduce to the basic concepts of skewness and Kurtosis
CO5	To understand the correlation

Unit–I

Collection of Data: Primary and secondary data - Classification and tabulation: meaning–Types of classification–tabulation of data–Difference between classification and tabulation-Rules of tabulation -Types of tables–Diagrammatic representation: Types of diagram.

Unit–II

Arithmetic mean-simple arithmetic average(Direct method only) –Geometric mean – Harmonic mean(Weighted method excluded) –median –mode.

Unit-III

Range – Quartile deviation – mean deviation (using only mean & median) – standard deviation: Individual Series (using actual mean) Discrete Series, Continuous Series (using step deviation method only Charlier's Check of Accuracy not included)

Units-IV

Relative measures of Skewness - Karl Pearson's Co-efficient of Skewness-Bowley's Co-efficient of Skewness - Kurtosis–Co-efficient of Kurtosis.

Units-V

Karl Pearson's Co-efficient of correlation(use only one formula r =

$\sum xy/ \sqrt{\sum x^2 \sum y^2} -$

RankCorrelation:Ranksaregiven&Ranksarenotgiven(ConcurrentDeviationmethodexcluded)

Text Book: Statistics Theory and Practice - R.S.N. Pillai, Bagavathi, S Chand and Company limited, New Delhi.(Reprint 2017)

Unit I - Chapter 4 (Pg Nos: 27 to 32), Chapter 6 (Pg Nos: 50 to 53 and 66 to 70) Chapter 7 (Pg Nos: 83 to 93)

12 Hours

12 Hours

12 Hours

12 Hours

12 Hours



Unit II - Chapter 9(Pg Nos: 126 to 133, 145 to 154 and 166 to 180) Unit III - Chapter 10(Pg Nos: 244 to 273) Unit IV - Chapter 11 (Pg Nos: 341 to 355and 361 to 363) Unit V - Chapter 12 (Pg Nos 399 to 411 and 417 to 420)

Reference Book: Business Statistics - P.R.Vital

SEMESTER IV

Course Title : Financial Management	Total Hours : 90 Hours
Course Code : U24BAC41	Total Credits : 4

Course Outcomes:

COs	CO Statement
CO1	Acquire the knowledge of various functions of financial management, financial
	decisions, investment decisions and dividend decisions.
CO2	Understand the overall role and importance of the finance Function
CO3	Understand the determinants and estimations of working capital and also Cash
	management.
CO4	Analyze the cost of capital, cost of Debt and cost of equity.
CO5	Describe the capital budgeting, forms of dividend and factors affecting dividend
	policy.

UNIT-1:

[18Hours]

[18Hours]

[18Hours]

[18Hours]

Financial Management: Definition - Objectives of the firm : Profit maximization Vs wealth maximization - Functions of finance. Financial Decisions - Investment decision-Financing Decision and Dividend decision - Organization of the finance function - Controller Vs Treasurer.

UNIT-2:

Sources of Capital: Long term, intermediate term and short term - types of securities - Debt, Equity and Preferred Stock. Leverage: Meaning - Types - Operating leverage, Financial leverage, Combined leverage (only theory). Capital structure: Forms - Importance - Factors determining capital structure - Theories of capital structure (only Theory) - Problems on EBIT - EPS analysis.

UNIT-3:

Working capital Management: Concept of working capital - Kinds of working capital -Significance of working capital - Determinants of working capital - Estimation of Working Capital (Problem). Cash Management: Motives for holding cash. Receivables management: Objectives - Credit Policy - Credit Period (Only theory).

UNIT-4:

Cost of capital: Meaning and Definition - Significance - Classification of cost- Determination of Cost of Capital - Cost of Debt - Cost of Equity - Cost of Preference Shares- Weighted average cost of capital (Theory & Problems).

UNIT-5:

Capital budgeting: Techniques – Investment evaluation methods: Payback Period, Accounting

[18Hours]



rate of return – Net present Value and Internal rate of return (problem on IRR to be excluded). Dividend policy: factors affecting dividend policy – Forms of dividends - Stock dividend and stock split(Theory only).

NOTE: Question must be asked 40% on theory 60% on problems.

Text Book:

1. Financial Management, Shashi K. Gupta & R.K. Sharma Kalyani Publishers, New Delhi

Unit I – P.No.1.1 to 1.22 Unit II –P.No. 2.1 to 2.47, 6.1 to 6.18, 5.1 to 5.30 Unit III – P. No. 8.1 to 8.36, 8.41 to 8.43, 9.1 to 9.4, 9.12 to 9.16 Unit IV –P.No. 7.1 to 7.30 Unit V –P.No. 11.1 to 11.18, 12.10 to 12.14.

Reference Books:

- 1. **Financial Management** Principles & Practice Dr.S.N.Maheswari, Sultan Chand & Sons, New Delhi.
- 2. Financial Management Text and Problems M.Y.Khan&P.K.Jain.
- 3. **Financial management**, Dr.A.Murthy, Margham Publications, Chennai. Reprint edition, 2019.

e-Resources:

1. Introduction to FM :https://youtu.be/WNm ez1h7Tc 2. Evolution of FM :https://youtu.be/CKikJJEno9A 3. Role and functions :https://youtu.be/0RHqiYBrzWg 4. Sources of finance :https://youtu.be/OmwjKTYtLiA 5. Leverage :https://youtu.be/KWQcPpJSkl0 6. EBIT – EPS analysis :https://youtu.be/jG0pd7bFMbM 7. Capital structure : https://youtu.be/xO20sAjwbq4 8. Working capital Mgt : https://youtu.be/mRTgkZc0S7g 9. Receivables Mgt :https://youtu.be/hYEhZ310WNo 10. Cash management : https://youtu.be/XUVhuqlg6G0 : https://youtu.be/lSrBOa0FdcM 11. Cost of Capital 12. Capital Budgeting : https://youtu.be/CO8LDV2sO6M : https://voutu.be/O02E3TaS-O8 13. Dividend policy

Course Title : Research Methodology	Total Hours : 90 Hours
Course Code : U24BAC42	Total Credits : 4

Course Outcomes:

Cos	CO Statement
CO1	To provide basic theoretical framework of the concepts of Research Methodology.
CO2	To impart knowledge about sampling objectives, characteristics and sampling methods



CO3	To make the students understand various methods of data collection and the
	requisites of a good questionnaire.
CO4	To make them understand data processing: Editing, coding, tabulation and
	interpretation of data
CO5	To make them understand the essentials of report writing and steps in report writing
	with its contents.

Unit – I:

Research Methodology: Introduction – Meaning – Objectives – Types – Significance. Research Process - Problems encountered by Researchers in India - Criteria of Good research. Research Design – Meaning - Need and Importance.

Unit – II:

[18 Hours] Sampling: Definition – Characteristics – Probability and Non-Probability Sampling methods. Scaling: Definition - Scale Classification bases - Scaling Techniques. [18 Hours]

Unit – III:

Data Collection: Types of data – Data Sources – Methods of Collection of Primary Data and Secondary data. Questionnaire: Meaning - Collection of data through questionnaire -Questionnaire vs Schedule.

Unit – IV:

[18 Hours]

[18 Hours]

Data Processing: Editing, Coding, Classification and Tabulation. Analysis of Data – Meaning - Importance - Role of statistics in research. Interpretation of data: Meaning - Essentials and Precautions. Hypothesis: Meaning - Null and Alternate hypothesis only.

Unit – V:

[18 Hours]

Report writing: Meaning – Types of report – Steps in writing report – Layout of Research report. Role of Computer and internet in Research.

TEXT BOOK:

1.Research Methodology, Methods & Techniques - Kothari - Wiley Easter Ltd., Publications, 2008

Unit I	Page No. 1-23
Unit II	Page No. 55-68 & 76-92
Unit III	Page No. 95-112
Unit IV	Page No. 122-131 & 344-346 & 184-186
Unit V	Page No. 346-353 & 361-365

REFERENCE BOOK:

- Research Methods in Social Sciences Dr.S.Nakkiran & Dr.R.Selvaraju Himalaya 1. Publishing House.
- Research Methodology by P.PanneerSelvam. 2.

e-RESOURCES:

- 1. https://ccsuniversity.ac.in/bridge-library/pdf/Research-Methodology-CR-Kothari.pdf
- 2. https://dhsgsu.edu.in/images/Reading-Material/Commerce/Econtent/RM-SELF-

LEARNING.pdf

3. https://www.drnishikantjha.com/papersCollection/Research%20Methodology%20.pdf



4. <u>https://ccsuniversity.ac.in/bridge-</u>

library/pdf/MPhil%20Stats%20Research%20Methodology-Part1.pdf

5. https://sist.sathyabama.ac.in/sist_coursematerial/uploads/SBAX1023.pdf

Course Title : Personality Development	Total Hours :30 Hours
Course Code : U24BAS41	Total Credits : 1

Course Outcomes:

COs	CO Statement
CO1	To make the learner understand the common personality and psychological
	factors.
CO2	To develop knowledge on personality theories.
CO3	To develop implications on personality traits and perception.
CO4	To make the learner understand the various forms of inter-personal behaviour.
CO5	To analyze the self-management techniques like yoga, asanas, etc.,

Unit-I`

[6 Hours]

Personality : Meaning – Determinants of Personality – Theories of Personality – Types of Personalities – How Personality influences organizational Behaviour.

Unit-II

[6 Hours]

Perception: Meaning – Nature – Importance – The Perception Process – Factors influencing the perception – Application of perception in organisation.

Unit-III

Attitude: Concept of attitude – Formation and Types – Values - Concept of Values – Formation and Types.

Unit-IV

[6 Hours]

[6 Hours]

Emotions and Mood: Types of Emotions – Sources of Emotions and Moods – Emotional intelligence and Emotional Quotient - its Applications.

Unit-V

[6 Hours]

Transactional Analysis: Meaning – Analysis of EGO states (Parent Ego, Adult Ego and Child Ego) – Types of Transactions.

Text Book:

1. Organisational Behaviour (Text and Cases) – Dr.S.S.Khanka, Sultan Chand and Sons – 2019

Unit I	Pg no 48 – 61
Unit II	Pg no 69 – 79
Unit III	Pg no 86 – 100
Unit IV	Pg no 156 -175
Unit V	Pg no 184 – 199



Reference Books:

- 1. Organisational Behaviour Fred Luthans, McGraw Hill Publication (9th Edition).
- 2. Organisational Behaviour K.Aswathappa, Himalaya Publication (9th Edition).
- 3. Organisational Behaviour Shashi K.Gupta and Rosy Joshi, Kalyani Publishers (First Edition).

e-Resources:

- 1. <u>https://www.youtube.com/watch?v=YkPlcbYumTk&t=35s</u>
- 2. https://www.verywellmind.com/the-myers-briggs-type-indicator-2795583
- 3. <u>https://www.verywellmind.com/personality-development-2795425</u>
- 4. https://psychcentral.com/health/what-is-personality
- 5. <u>https://www.psychologytoday.com/us/blog/click-here-happiness/202006/personal-development-9-skills-tips-and-examples</u>
- 6. <u>https://www.verywellmind.com/the-big-five-personality-dimensions-2795422</u>
- 7. https://www.truity.com/test/big-five-personality-test
- 8. <u>https://www.geektonight.com/perception/#google_vignette</u>
- 9. <u>https://pressbooks.online.ucf.edu/lumenpsychology/chapter/reading-what-is-perception/</u>
- 10. https://www.simplypsychology.org/transactional-analysis-eric-berne.html
- 11. https://www.matrrix.in/blogs/transactional-analysis
- 12. https://www.simplypsychology.org/psychoanalysis.html
- 13. https://psychotreat.com/argyris-theory-of-changes-from-immaturity-to-maturity/
- 14. https://www.humanmetrics.com/personality
- 15. https://thepleasantrelationship.com/interpersonal-relationships/

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Course Title : BUSINESS MATHEMATICS	Total Hours : 60 Hours
Course Code : U24MAAB41	Total Credits : 3

Course Outcomes:

COs	CO Statement
CO1	To introduce the set theory
CO2	To inculcate the knowledge of interest calculation.
CO3	To develop the knowledge of working in matrices.
CO4	To introduce Determinants concepts.
CO5	To understand the solving of transportation and assignment problem

Unit–I

12 Hours

12 Hours

12 Hours

Theory of sets – Definition – Finite and infinite sets –set operation: union of sets – intersection of sets-difference of sets-complement of a set – using venn diagram only.

Unit–II

Simple interest–compound interest.

Units-III

Matrices: Definition–order–Types–Symmetric–Skew systematic operations on matrix: addition, subtraction– product of two matrices.



Units-IV

12 Hours

Determinant of a matrix: Definition –expansion of a determinant –minors and cofactors–(Singular &Non Singular, properties of determinants excluded) – inverse of matrix.

Unit–V

12 Hours

Transportation Problems: Introduction - Mathematical formulation of transportation problem-Solution of transportation problem and Initial basic feasible solution using North west corner rule, Row minima, Column minima, VogelsApproximation method (Dual of a Transportation problem, Least cost method excluded).

Text Book1: Business Mathematics -M. Manoharan,C.Elanco K.L.Eswaran, Palani paramount publication, 2009.

Text Book 2:Topics in Operations Research Linear Programming –Arumugam Isaac, New Gamma Publishing House, Palayamkottai

UnitI-**Text Book 1-**Chapter1:1.1–1.3,1.9,1.12 -1.20 UnitII-**Text Book 1-**Chapter4: 4.1, 4.2 UnitIII-**Text Book 1-**Chapter8:8.1,8.1.1,8.1.2 UnitIV –**Text Book 1-**Chapter8: 8.2,8.4 Unit V- **Text Book 2-** Chapter 4 : 4.0,4.1 (Upto Pg No 4-30)

Reference Book: Business Mathematics, P.R.Vital, Margham Publication, edition 2005