



Dr. N.G.P. ARTS AND SCIENCE COLLEGE

(An Autonomous Institution, Affiliated to Bharathiar University, Coimbatore)
 Approved by Government of Tamil Nadu and Accredited by NAAC with 'A++' Grade (3rd Cycle-3.64 CGPA)
 Dr. N.G.P. - Kalapatti Road, Coimbatore-641048, Tamil Nadu, India
 Web: www.drngpasc.ac.in | Email: info@drngpasc.ac.in | Phone: +91-422-2369100

REGULATIONS 2026-27 for Under Graduate Programme (Outcome Based Education model with Choice Based Credit System)

B.B.A. (Logistics and Supply Chain Management) Degree (For the students admitted during the academic year 2026-27)

Programme : B.B.A.(Logistics and Supply Chain Management)

Eligibility

A candidate who has passed in Higher Secondary Examination with any Academic Stream or Vocational Stream as one of the subjects under Higher Secondary Board of Examination and as per the norms set by the Government of Tamil Nadu or an Examination accepted as equivalent there to by the Academic Council, subject to such conditions as may be prescribed there to are permitted to appear and qualify for the **Bachelor of Business Administration with Logistics and Supply Chain Management Degree Examination** of this College after a Programme of study of three academic years.

Programme Educational Objectives

The Curriculum is designed to attain the following learning goals which students shall accomplish by the time of their graduation:

1. Demonstrate ability to adapt to a rapidly changing logistics environment and acquiring needed competencies.
2. Acquire the information from logistics industry and other relevant sources in solving the problem through modern logistics practices and demonstrate professionalism and ethical values in the relevant field.
3. Prepare knowledgeable and industry relevant quality graduates who possess managerial skills and critical thinking skills in serving the domestic and global community in the area of business.

PROGRAMME OUTCOMES:

On the successful completion of the program, the following are the expected outcomes.

PO Number	PO Statement
PO1	Adapt to the latest tools and techniques used to develop domain based innovative solutions with the acquired technical and operational skills.
PO2	Incorporate advanced digital skills in designing, developing, managing and deploying in media and technical field.
PO3	Follow ethical principles and commit to professional responsibilities for a relevant technical practice.
PO4	Acquire leadership skills in core areas including supervising, purchasing, inventory control, supply chain, production, and retail aspects of the business.
PO5	Understand and apply knowledge gained on global logistics management.

Credit Distribution

B.B.A. (Logistics and Supply Chain Management)

Part	Subjects	No.of Papers	Credit	Semester No.
I (12 Credits)	Tamil / Hindi / French/Malayalam	4	4 x 3 = 12	I to IV
II (12 Credits)	English	4	4 x 3 = 12	I to IV
III (108 Credits)	Core (Credits 2,3,4,5)	20	70	I to VI
	Inter Departmental Course (IDC)	4	4 x 4 =16	I to IV
	Discipline Specific Elective (DSE)	3	3 x 4 =12	V & VI
	Skill Enhancement Course (SEC)	4	4 x 2 = 8	III, IV, V & VI
	Industrial Training	1	2	V
IV (8 Credits)	Environmental Studies(AECC)	1	2	I
	Basic Tamil/ Advance Tamil /Human Rights & Women's Rights(AECC)	1	2	II
	Innovation & IPR/Innovation, IPR & Entrepreneurship (AECC)	1	2	VI
	Generic Elective(GE) (AECC)	1	2	V
V (2 Credits)	NSS/NCC/YRC/RRC/Yoga/Sports/Clubs/ Health and Wellness	-	2	I -II
TOTAL CREDITS			142	

CURRICULUM

B.B.A. (LOGISTICS AND SUPPLY CHAIN MANAGEMENT) PROGRAMME

Course Code	Course Category	Course Name	L	T	P	Instruction Hours		Exam (h)	Max Marks			Credits
						Week	Total		CIA	ESE	Total	
First Semester												
Part - I												
26TLU1TA	Language - I	Tamil - I	4	1	-	5	60	3	25	75	100	3
26TLU1HA		Hindi - I										
26TLU1MA		Malayalam - I										
26TLU1FA		French - I										
Part - II												
26ELU1EA	Language - II	English - I	4	-	1	5	60	3	25	75	100	3
Part - III												
26BLU1CA	Core - I	Principles of Management	4	-	-	4	48	3	25	75	100	4
26BLU1CB	Core - II	Fundamentals of Logistics	4	-	-	4	48	3	25	75	100	4
26BLU1CP	Core Practical - I	PC Software - MS Office	-	-	4	4	48	3	40	60	100	2
26MTU1IF	IDC-I	Mathematics and Statistics for Management	5	1	-	6	72	3	25	75	100	4
Part - IV												
26CEU1AA	AECC - I	Environmental Studies	2	-	-	2	24	-	50	-	50	2
Part - V												
26BLU1XA	Extension Activity	NSS/NCC/YRC/RRC/Yoga/Sports/Club	-	-	-	-	-	-	50	-	50	1
Total			23	2	5	30	360				700	23

Course Code	Course Category	Course Name	L	T	P	Instruction Hours		Exam (h)	Max Marks			Credits
						Week	Total		CIA	ESE	Total	
Second Semester												
Part - I												
26TLU2TA	Language - I	Tamil - II	4	1	-	5	60	3	25	75	100	3
26TLU2HA		Hindi - II										
26TLU2MA		Malayalam - II										
26TLU2FA		French - II										
Part - II												
26ELU2EA	Language - II	English - II	4	-	1	5	60	3	25	75	100	3
Part - III												
26BLU2CA	Core - III	Financial Accounting	4	1	-	5	60	3	25	75	100	4
26BLU2CB	Core - IV	Materials Management	4	1	-	5	60	3	25	75	100	4
26BLU2CP	Core Practical - II	Financial Accounting Package - Tally	-	-	4	4	48	3	40	60	100	2
26CRU2IA	IDC - II	Business Law	4	-	-	4	48	3	25	75	100	4
Part - IV												
26TLU2AA/ 26TLU2AB/ 26CMU2AA	AECC - II	Basic Tamil/ Advanced Tamil /Human Rights and Women's Rights	2	-	-	2	24	-	50	-	50	2
Part - V												
26BLU2XA	Extension Activity	NSS/NCC/ YRC/RRC/ Yoga/Sports/ Club/Health and Wellness	-	-	-	-	-	-	50	-	50	1
Total			22	3	5	30	360				700	23

Course Code	Course Category	Course Name	L	T	P	Instruction Hours		Exam (h)	Max Marks			Credit
						Week	Total		CIA	ESE	Total	
Third Semester												
Part – I												
26TLU3TA	Language - I	Tamil - III	3	1	-	4	48	3	25	75	100	3
26TLU3HA		Hindi - III										
26TLU3MA		Malayalam - III										
26TLU3FA		French - III										
Part – II												
26ELU3EA	Language - II	English - III	3	1	-	4	48	3	25	75	100	3
Part – III												
26BLU3CA	Core – V	Organizational Behaviour	4	1	-	5	60	3	25	75	100	4
26BMU3CB	Core - VI	Marketing Management	4	-	-	4	48	3	25	75	100	4
26BLU3CB	Core - VII	Container Operations Management*	3	-	-	3	36	3	25	75	100	2
26BLU3CC	Core - VIII	Foreign Trade Management*	3	-	-	3	36	3	25	75	100	2
26BLU3SV	SEC – I	Office Fundamentals	-	-	3	3	36	3	40	60	100	2
26IBU3IA	IDC – III	Introduction to Shipping	4	-	-	4	48	3	25	75	100	4
Total			24	3	3	30	360				800	24

*Courses will be handled by Industry Experts.

Course Code	Course Category	Course Name	L	T	P	Instruction Hours		Exam (h)	Max Marks			Credits
						Week	Total		CIA	ESE	Total	
Fourth Semester												
Part – I												
26TLU4TA	Language - I	Tamil - IV	3	1	-	4	48	3	25	75	100	3
26TLU4HA		Hindi - IV										
26TLU4MA		Malayalam - IV										
26TLU4FA		French - IV										
Part – II												
26ELU4EA	Language - II	English - IV	3	1	-	4	48	3	25	75	100	3
Part – III												
26BMU4CA	Core - IX	Human Resource Management	5	-	-	5	60	3	25	75	100	5
26BLU4CA	Core - X	Supply Chain Management - I	4	-	-	4	48	3	25	75	100	4
26BLU4CB	Core - XI	Sea and Air Freight Forwarding*	3	-	-	3	36	3	25	75	100	2
26BLU4CC	Core - XII	Customs Procedure*	3	-	-	3	36	3	25	75	100	2
26BLU4SV	SEC - II	Campus to Corporate	-	-	3	3	36	3	40	60	100	2
26IBU4IB	IDC - IV	Documentation of Exports and Imports	4	-	-	4	48	3	25	75	100	4
Total			25	2	3	30	360				800	25

*Courses will be handled by Industry Experts.

Course Code	Course Category	Course Name	L	T	P	Instruction Hours		Exam (h)	Max Marks			Credits	
						Week	Total		CIA	ESE	Total		
Fifth Semester													
Part – III													
26BMU5CA	Core - XIII	Research Methods for Management	5	1	-	6	72	3	25	75	100	5	
26BMU5CB	Core – XIV	Cost and Management Accounting	5	1	-	6	72	3	25	75	100	5	
26BLU5CA	Core - XV	Taxation Law and Practice	5	1	-	6	72	3	25	75	100	4	
26BLU5SA	SEC - III	Warehousing and Distribution Operations	4	-	-	4	48	3	25	75	100	2	
26BLU5DA	DSE – I	Warehouse Automation	5	1	-	6	72	3	25	75	100	4	
26BLU5DB		Management Information Systems for Logistics											
26BLU5DC		Entrepreneurship and Small Business Management											
26BLU5TA	IT	Industrial Training	-	-	-				40	60	100	2	
Part – IV													
	GE		-	-	2	2	24		50	-	50	2	
Total			24	4	2	30	360				650	24	

Course Code	Course Category	Course Name	L	T	P	Instruction Hours		Exam (h)	Max Marks			Credits
						Week	Total		CIA	ESE	Total	
Sixth Semester												
Part - III												
26BLU6CA	Core - XVI	Financial Management	5	1	-	6	72	3	25	75	100	4
26BLU6CB	Core - XVII	Transportation and Distribution Management	4	1	-	5	60	3	25	75	100	3
26BLU6CV	Core - XVIII Project	Project And Viva Voce	-	-	6	6	60	3	40	60	100	4
26BLU6SV	SEC - IV	Soft Skills for Business	3	-	-	3	36	3	40	60	100	2
26BLU6DA	DSE - II	Cargo Management	4	-	-	4	48	3	25	75	100	4
26BLU6DB		Supply Chain Management - II										
26BLU6DC		Courier Express and Parcel Services										
26BLU6DD	DSE - III	International Logistics Management	4	-	-	4	48	3	25	75	100	4
26BLU6DE		Agricultural Logistics and Supply Chain Management										
26BLU6DF		Industry 4.0										
Part - IV												
26CIU6AA	AECC-III	Innovation and IPR	2	-	-	2	24	-	50	-	50	2
Total			22	2	6	30	360				650	23
*Grand Total											4300	142

DISCIPLINE SPECIFIC ELECTIVE

Students shall select the desired course of their choice in the listed elective course during Semesters V & VI

Semester V (Elective I)

List of Elective Courses

S. No.	Course Code	Name of the Course
1	26BLU5DA	Warehouse Automation
2	26BLU5DB	Management Information Systems for Logistics
3	26BLU5DC	Entrepreneurship and Small Business Management

Semester VI (Elective II)

List of Elective Courses

S. No.	Course Code	Name of the Course
1	26BLU6DA	Cargo Management
2	26BLU6DB	Supply Chain Management - II
3	26BLU6DC	Courier Express and Parcel Services

Semester VI (Elective III)

List of Elective Courses

S. No.	Course Code	Name of the Course
1	26BLU6DD	International Logistics Management
2	26BLU6DE	Agricultural Logistics and Supply Chain Management
3	26BLU6DF	Industry 4.0

GENERIC ELECTIVE COURSE (GE)

The following course is offered under Generic Elective

Semester V (GE)

S. No.	Course Code	Course Name
1	26BLU5GP	E-Commerce Logistics

EXTRA CREDIT COURSES

The following are the courses offered under Self Study to earn extra credits

Semester III

S. No.	Course Code	Course Name
1	26BLUSSA	Business Communication
2	26BLUSSB	Digital Marketing


BoS Chairman/HoD
 Department of Management Studies
 Dr. N. G. P. Arts and Science College
 Coimbatore - 641 048

 Dr.N.G.P. Arts and Science College		
APPROVED		
BoS- 1/4/26	AC -	GB -

Semester – I CORE I: PRINCIPLES OF MANAGEMENT							
Semester	Course Code	Course Name	Category	L	T	P	Credits
I	26BLU1CA	PRINCIPLES OF MANAGEMENT	CORE	48	-	-	4

Preamble	This course has been designed for students to learn and understand - To inculcate the students with the Knowledge and Understanding of the principles of management and to enable the students to gain valuable insight into the working of business. - To review the evolution of management thoughts, functions and practices through the focus on Indian experiences, approaches and cases.
Prerequisite	Knowledge on Management

Course Outcomes (Cos)		
CO Number	Course Outcomes (COs) Statement	Bloom's Taxonomy Knowledge Level
CO1	Examine and explain the management evolution and how it will affect future managers.	K1
CO2	Estimate the conceptual framework of planning and decision-making in day-to-day life.	K2
CO3	Explain the various managerial functions to achieve the goals and objectives of the organization.	K1
CO4	Analyse the theories of motivation, leadership and communication in a variety of circumstances and management practices in organizations.	K4
CO5	Identify and explain the importance of the Control and identify some of the key skills required for the contemporary management practice.	K3

Mapping with Program Outcomes:					
Cos / POs	PO1	PO2	PO3	PO4	PO5
CO1	S	S	M	S	S
CO2	S	M	S	S	M
CO3	S	M	S	M	S
CO4	S	M	S	M	M
CO5	S	S	M	S	M

26BLU1CA | PRINCIPLES OF MANAGEMENT

Syllabus

Unit	Content	Hrs	Resources
I	Functions of Management Overview of Management: Definition -Nature and Scope of Management-Importance - Skills of Managers-Levels of Management-Functional Areas of Management- Evolution of Management Thoughts: Contribution of F.W. Taylor, Henri Fayol, Elton Mayo, Peter F. Drucker's - Foundational Principles in Ancient Texts - Management: A Science or an Art.	10	Text Book
II	Planning Planning: Definition -Nature and purpose - Planning process - Importance of Planning -Types of Plan - Decision Making - Definition - Steps and Process and Various Types of Decisions - Automated Decision Systems (ADS). Case Study on Decision Making	9	Text Book
III	Organizing Organizing: Definition - Types of Organization - Organizational Structure -Span of Control - Use of Staff Units and Committees. Delegation: Delegation and Centralization. Centralization and Decentralization - Staffing: Definition- Sources of Recruitment - Selection - Definition - Process Training - Definition - Types. Case Study on Delegation	10	Text Book
IV	Directing Directing: Definition - Nature and Purpose of Directing - Principles -Elements of Direction - Importance and Techniques of Direction - Communication: Definition - Importance of Communication - Methods of Communication - Types - Barriers. Case Study on Direction	10	Text Book
V	Controlling Controlling: Meaning and Importance of Controlling - Control Process - Budgetary and Non-Budgetary Control Techniques - Requisites of an Effective Control System- Relationship between Planning and Controlling - Need for Co-ordination.	9	Text Book
	Total	48	

Note: Case studies related to the above topics to be discussed (Examined)

Internal only)

Text book	1.	Prasad L.M., 2025, "Principles and Practice of Management", Eleventh Revised Edition, Sultan Chand & Sons, New Delhi.
	2.	Dinkar Pagare ,2018, "Principles of Management", Sixth Edition, Sultan Chand & Sons, New Delhi.
Reference Books	1.	Govindarajan. M., 2019. "Principles of Management", Ninth Edition, PHI Publications, New Delhi.
	2.	RamaswamyT, 2019, "Principles of management", Eighth Edition, Himalaya Publishing Home Pvt Ltd, Mumbai.
	3.	Tripathi P C& Reddy P N, 2017, "Principles of Management", Sixth Edition, McGraw Hill Education and New Delhi..
	4.	Mitra J.K, 2018, "Principles of Management", Revised First Edition, Oxford University Press,UK.

Journal and Magazines	Principles Of Management Academy of Management Journal (aom.org)
E-Resources and Website	Infosys Springboard: Digital Learning and Reskilling Programs Principles of Management Coursera

Learning Method	Chalk and Talk/Assignment/Seminar/ Group Discussion/ Case Study
Focus of the Course	Skill Development/ Employability/ Entrepreneurial Development

Semester - I CORE II: FUNDAMENTALS OF LOGISTICS							
Semester	Course Code	Course Name	Category	L	T	P	Credits
I	26BLU1CB	FUNDAMENTALS OF LOGISTICS	CORE	48	-	-	4

Preamble	This course has been designed for students to learn and understand - To develop competencies and knowledge of students to become logistics professionals. - To orient students in the field of Logistics. - To help Students to understand Fundamentals of Logistics.
Prerequisite	Knowledge on Logistics

Course Outcomes (Cos)		
CO Number	Course Outcomes (COs) Statement	Bloom's Taxonomy Knowledge Level
CO1	Recognize the competencies and knowledge of students to become logistics professional.	K2
CO2	Understand the field of Logistics and Customer Service.	K2
CO3	Illustrate on Global Logistics.	K3
CO4	Discriminate the Logistics Allied Concepts.	K4
CO5	Evaluate on Logistics Policy.	K5

Mapping with Program Outcomes:

Cos/POs	PO1	PO2	PO3	PO4	PO5
CO1	S	M	S	M	S
CO2	S	M	M	S	M
CO3	S	S	S	M	S
CO4	S	M	M	S	S
CO5	S	S	S	S	S

26BLU1CB FUNDAMENTALS OF LOGISTICS

Syllabus

Unit	Content	Hrs	Resources
I	Introduction to Logistics History of Logistics - Need for logistics - Cost and Productivity - Cost Saving & Productivity Improvement. Logistics Cost - Reduction in Logistics Cost - Benefits of Efficient Logistics - Principles of Logistics - Technology & Logistics - Informatics - Logistics optimization. Listing of Sub-sectors of Logistics.	9	Text Book
II	Logistics and Customer Service Definition of Customer Service - Elements of Customer Service- Phases in Customer Service - Customer Retention - Procurement and Outsourcing - Definition of Procurement/Outsourcing - Benefits of Logistics Outsourcing - Critical Issues in Logistics Outsourcing. Case Study on Outsourcing	9	Text Book
III	Global Logistics Global Supply Chain - Organizing for Global Logistics - Strategic Issues in Global Logistics - Forces driving Globalization - Modes of Transportation in Global Logistics - Barriers to Global Logistics - Markets and Competition - Financial Issues in Logistics Performance - Integrated Logistics - Need for Integration - Activity Centres in Integrated Logistics. Role of 3PL & 4PL. Case Study on Global Logistics	10	Text Book
IV	Logistics Allied Concepts Warehouse: Meaning, Types of Warehouses Benefits of Warehousing. Transportation: Meaning - Types of Transportations - Efficient Transportation System - Benefits of Efficient Transportation Systems. Courier/Express - Meaning - Categorization of Shipments - Courier Guidelines - Pricing in Courier - Express Sector for International and Domestic Shipping. E-Commerce - Meaning - Brief on Fulfilment Centers - Reverse Logistics in E-Commerce Sector. Case Study on Warehouse	12	Text Book
V	Logistics Policy EXIM: Brief on EXIM/FF & CC - Multi-modal transportation - Brief on Customs Clearance - Bulk Load Handling and Brief on Trans-shipment - Supply Chain - Cold Chain - Liquid Logistics - Rail Logistics - Traditional Logistics.	8	Text Book
Total		48	

	Note: Case studies related to the above topics to be discussed (Examined Internal only)
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Text book	1.	Ailawadi, Satish C., Singh, P. Rakesh, 2022, " Logistics and Supply Chain Management", Third Edition, PHI Learning, New Delhi.
	2.	K. Shridhara Bhat, 2023, "Logistics Management", Second Edition, Himalaya Publishing House Pvt. Ltd., Mumbai.
Reference Books	1.	Saikumari V., Purushothaman S, 2023, "Logistics and Supply Chain Management", Second Revised Edition, Sultan Chand & Sons, New Delhi.
	2.	Debasish Mukherjee, 2022, "Fundamentals of Logistics", First Edition, Paramount Publishing House, Hyderabad.
	3.	David B. Grant, 2006 "Fundamentals of Logistics Management ", First Edition, McGraw-Hill, New Delhi.
	4.	Douglas Lambert, James R Stock, Lisa M. Ellram, 1998, "Fundamentals of Logistics Management", First Edition, McGraw hill, New Delhi.

Journal and Magazines	The International Journal of Logistics Management
E-Resources and Website	<u>Logistics Management - TOC Infosys Springboard</u>

Learning Method	Chalk and Talk/ Assignment/Seminar/ Group Discussion/Case Study
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Focus of the Course	Skill Development/ Employability/ Entrepreneurial Development
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Semester - I CORE PRACTICAL -I: PC SOFTWARE - MS OFFICE							
Semester	Course Code	Course Name	Category	L	T	P	Credits
I	26BLU1CP	PC SOFTWARE - MS OFFICE	CORE PRACTICAL	-	-	48	2

Preamble	This course has been designed for students to learn and understand - To create a document in Microsoft Word with formatting that complies with the APA guidelines. - To know the functions in Microsoft Excel to perform basic calculations. - To create a presentation in Microsoft PowerPoint that is interactive and legible content.
Prerequisite	Practical Knowledge on accounting software

Course Outcomes (Cos)		
CO Number	Course Outcomes (COs) Statement	Bloom's Taxonomy Knowledge Level
CO1	To create and manage professional documents using word.	K1
CO2	Demonstrate the preparation of the document to be sent as an invitation.	K2
CO3	Analyse, manage and present data using excel.	K3
CO4	Create and manage presentation using Power Point.	K5
CO5	Evaluate the preparation of table and database.	K5

Mapping with Program Outcomes:					
Cos / POs	PO1	PO2	PO3	PO4	PO5
CO1	S	S	S	S	S
CO2	S	M	S	S	M
CO3	S	S	S	M	S
CO4	S	S	S	S	S
CO5	S	M	M	S	M

26BLU1CP	PC SOFTWARE - MS OFFICE
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S.No

List of Programs

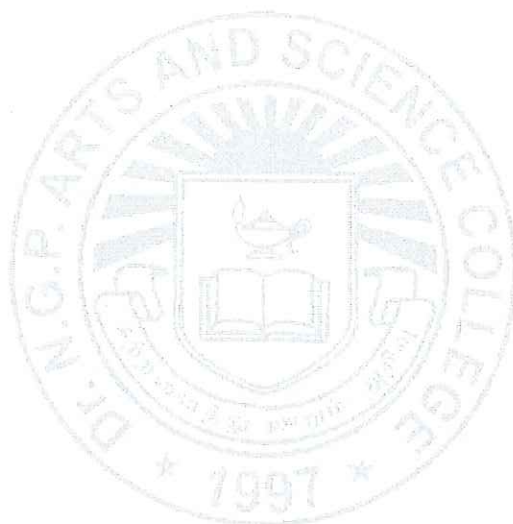
- Preparation of Chairman's speech in MS Word and perform the following font operations, Paragraph operations, and perform the Header Footer & Page Setup operations:
- 1
 - Bold, Underline, Italic, Font Size, Strikethrough, Double strike through
 - Superscript, Subscript, Small caps, All Caps, Font color Background color,
 - Text color, Line spacing,
 - Alignment Left -Right -Center- Justified
 - Line Space -Line Space Before - Line Space After.
 - Insert Page Number
 - Page size - Orientation - Columns - Page Borders - Watermark
 - 2 Preparation of Shareholders meeting letter for 10 members using mail merge operation in MS Word.
 - 3 Preparation of mark list of your class (minimum of 5 subjects) and perform the following operations using MS Excel: Sum, Average, Count, Round, Min, Max, Rank.
 - 4 Conditional Formatting: Manage Rules, Data Bars, Color Scales, Icon Sets, New Rule, Find Duplicates, Shade Alternate Rows, and Compare Two Lists, Conflicting Rules, and Checklist.
 - 5 Drawing the different type of charts (Line, Pie, Bar) to illustrate year-wise performance of sales, purchase, profit of a company by using chart wizard in MS Excel.
 - 6 Prepare a Product Life Cycle which should contain the following stages: Introduction, Growth, Maturity, Saturation, and Decline.
 - 7 Creating Pivot Table to analyse the sales report.
 - 8 Outlining Data and Advanced filtering with Multi Criteria-including vlookup and hlookup.
 - 9 Prepare Bank Loan Statement by using PMT and IPMT Functions.
 - 10 Prepare Sales Report by using Power Functions (Count IF & Sum IF).
 - 11 Designing presentation slides using MS PowerPoint for a product of your choice. The slides must include name, brand name, type of product, characteristics, special features, price, special offer etc. Add different Themes. The presentation should work in manual mode.

- 12 Designing slides using MS PowerPoint for the headlines News of a popular TV Channel. The Presentation Should contain the following transactions:
Top down, Bottom up, Zoom in and Zoom out - The presentation should work in custom mode.

Text Books	1.	Curtis D. Frye, Joan Lambert, 2023, "Microsoft Office Step by Step", First Edition, Pearson Education, New Delhi.
	2.	Bittu Kumar, 2017, "Mastering MS Office", First Edition, V&S Publishers, New Delhi.

Learning Method	Demonstration/ Hands on Experiments
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Focus of the Course	Skill Development/ Employability
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Semester - I IDC: MATHEMATICS AND STATISTICS FOR MANAGEMENT							
Semester	Course Code	Course Name	Category	L	T	P	Credits
I	26MTU1IF	MATHEMATICS AND STATISTICS FOR MANAGEMENT	IDC	72	-	-	4

Preamble	This course has been designed for students to learn and understand - the characteristics of different types of matrices - the requirements for a good average and differentiate between average and dispersion - the concept of time series and index numbers.
Prerequisite	Knowledge on basics of Mathematics

Course Outcomes (Cos)		
CO Number	Course Outcomes (COs) Statement	Bloom's Taxonomy Knowledge Level
CO1	Solve systems of linear equations using the concept of matrix.	K3
CO2	Understand the basics of sets and interests.	K2
CO3	Understand the basic concepts of mean, median and mode.	K2
CO4	Compute and interpret the coefficient of correlation and regression.	K4
CO5	Discuss the construction of various types of index numbers.	K5

Mapping with Program Outcomes:					
Cos / POs	PO1	PO2	PO3	PO4	PO5
CO1	M	M	S	S	S
CO2	M	S	M	M	S
CO3	M	M	M	S	M
CO4	M	M	S	S	M
CO5	S	S	M	M	M

26MTU1IF	MATHEMATICS AND STATISTICS FOR MANAGEMENT
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Syllabus

Unit	Content	Hrs	Resources
I	Matrices Definition - importance - notation - order - types of matrices - matrix operations - properties - system of linear equations - determinants - inverse of a matrix - solving system of linear equations by Cramer's rule and matrix method.	14	Text Book
II	Set Theory and Mathematics of Finance Definition - notation - methods of description of sets - Venn diagram - Set operations. Mathematics of Finance - Simple and Compound Interest. (Simple problems only)	14	Text Book
III	Statistical methods Origin and growth of Statistics - meaning - definitions of Statistics - Scope and uses - Limitations. Collection of data - primary data and secondary data - Classification and Tabulation - Diagrams and Graphs. Measures of Central tendency - Arithmetic Mean, Median and Mode.	15	Text Book
IV	Measures of Variation Measures of Variation: Range - Quartile deviation - standard deviation - coefficient of variation. Simple Correlation - Karl Pearson's coefficient of correlation - Spearman's rank correlation coefficient - simple linear regression.	15	Text Book
V	Analysis of Time Series and Index Numbers Analysis of Time Series: Components - Secular Trend Methods of Measuring Trend. Index numbers: characteristics - simple or unweighted aggregatives method - simple or unweighted averages method - weighted aggregatives method - Tests of consistency and adequacy - fixed base - chain base - cost of living index.	14	Text Book
Total		72	

Note: Distribution of marks 80% Problem and 20% Theory
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Text book	1.	Navnitham PA, 2021, "Business Mathematics and Statistics", Jai Publishers, Trichy.
Reference Books	1.	Gupta S.P, 2018, "Statistical Methods", Sultan Chand and Sons Educational Publishers, New Delhi.
	2.	Richard Levin & David Rubin, 2008, "Statistics for management", Prentice Hall, New Delhi.
	3.	Das, N.G & Das J.K, 2012, "Business Mathematics and Statistics", First Edition, Mc Graw Hill Education Private Limited, New Delhi.
	4.	Asim Kumar Manna, 2018, "Business Mathematics and Statistics", First Edition, McGraw Hill Education Private Limited, New Delhi.

Journal and Magazines	https://www.worldscientific.com/worldscinet/bms
E-Resources and Website	<u>Matrices: Definition, Properties, Types, Formulas, and Examples</u> (geeksforgeeks.org) https://nptel.ac.in

Learning Method	Chalk and Talk/ Assignment/Seminar/ Group Discussion
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Focus of the Course	Skill Development/ Employability
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