



ST. VINCENT PALLOTTI COLLEGE OF ENGINEERING & TECHNOLOGY, NAGPUR

(An autonomous institution affiliated to Rashtrasant Tukadoji Maharaj Nagpur University)

B. Tech. Scheme of Examination & Syllabus 2026-27

INFORMATION TECHNOLOGY

Annexure – I CREDIT FRAMEWORK STRUCTURE

Semester		I	II	III	IV	V	VI	VII	VIII	Total Credits
Basic Science Course	BSC/ESC	7	7	-	-	-	-	-	-	14
Engineering Science Course		6	6	-	-	-	-	-	-	12
Program Core Course (PCC)	Program Courses	2	2	13	10	7	4	6		44
Program Elective Course (PEC)		-	-	-	-	4	6	6	4	20
Multidisciplinary Minor (MDM)	Multidisciplinary Courses	-	-	2	3	3	3	3	-	14
Open Elective (OE) Other than a particular program		-	-	-	-	2	3	3	-	08
Vocational and Skill Enhancement Course (VSEC)	Skill Courses	-	2	1	1	2	2	-	-	08
Ability Enhancement Course (AEC -01, AEC-02)	Humanities Social Science and Management (HSSM)	1	1	-	-	2	-	-	-	04
Entrepreneurship/Economics/Management Courses		-	-	2	2	-	-	-	-	04
Indian Knowledge System (IKS)		2	-	-	-	-	-	-	-	02
Value Education Course (VEC)		-	-	2	2	-	-	-	-	04
Research Methodology	Experiential Learning Courses	-	-	-	-	-	-	-	4	04
Comm. Engg. Project (CEP)/ Field Project (FP)		-	-	-	2	-	-	-	-	02
Project		-	-	-	-	-	2	2	-	04
Internship/OJT		-	-	-	-	-	-	-	12	12
Co-curricular Courses (CC)	Liberal Learning Courses	2	2	-	-	-	-	-	-	04
Total Credits (Major)		20	20	20	20	20	20	20	20	160

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INFORMATION TECHNOLOGY

FIRST SEMESTER

Sr No	Course Category	Course Code	Course Title	Hours per Week			Credits	Maximum Marks				Minimum Passing Marks	No of Hours for ESE
				L	T	P		Mid-Sem Examination	Continual Assessment	End Sem Examination	Total		
1	BSC	26IT101T	Engineering Chemistry	2	-	-	2	10	10	30	50	23	1.5
2	BSC	26IT101P	Engineering Chemistry Lab	-	-	2	1	-	25	25	50	25	-
3	BSC	26IT102T	Linear Algebra and Calculus	3	-	-	3	20	20	60	100	45	3
4	BSC	26IT102P	Linear Algebra and Calculus Lab	-	-	2	1	-	25	25	50	25	-
5	ESC	26IT103T	Basis of Python Programming	2	-	-	2	10	10	30	50	23	1.5
6	ESC	26IT104T	Logic building with C	3	-	-	3	20	20	60	100	45	3
7	ESC	26IT104P	Logic building with C Lab	-	-	2	1	-	25	25	50	25	-
8	PCC	26IT105P	Software Lab - I	-	-	4	2	-	25	25	50	25	-
10	AEC	26IT106P	Business Communication Skills – I Lab	-	-	2	1	-	25	25	50	25	-
11	IKS	26IT107T	Indian Knowledge Systems #	2	-	-	2	10	10	30	50	23	1.5
12	CC	26IT108P	Co-curricular Courses - I	-	-	4	2	-	50	-	50	25	-
Total				12	-	16	20	70	245	335	650	-	-

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SECOND SEMESTER

Sr. No	Course Category	Course Code	Course Title	Hours per Week			Credits	Maximum Marks				Minimum Passing Marks	No of Hours for ESE
				L	T	P		Mid-Sem Examination	Continual Assessment	End Semester Examination	Total		
1	BSC	26IT201T	Engineering Physics and Materials Science	2	-	-	2	10	10	30	50	23	1.5
2	BSC	26IT201P	Engineering Physics and Materials Science Lab	-	-	2	1	-	25	25	50	25	-
3	BSC	26IT202T	Statistics and Probability	3	-	-	3	20	20	60	100	45	3
4	BSC	26IT202P	Statistics and Probability Lab	-	-	2	1	-	25	25	50	25	-
5	ESC	26IT203T	Object Oriented Programming	3	-	-	3	20	20	60	100	45	3
6	ESC	26IT203P	Object Oriented Programming Lab	-	-	2	1	-	25	25	50	25	-
7	ESC	26IT204T	Digital Logic Design	2	-	-	2	10	10	30	50	23	1.5
8	PCC	26IT205P	Software Lab - II	-	-	4	2	-	25	25	50	25	-
9	AEC	26IT206P	Business Communication Skills – II Lab	-	-	2	1	-	25	25	50	25	-
10	SEC	26IT207T	Design Thinking #	2	-	-	2	10	10	30	50	23	1.5
11	CC	26IT208P	Co-curricular Courses – II	-	-	4	2	-	50	-	50	25	-
Total				12	-	16	20	70	245	335	650	-	-

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INFORMATION TECHNOLOGY

SEMESTER I

Course Code	Course Name	Th	Tu	Pr	Credits	Evaluation		
						CA	ESE	Total
26IT101P	Engineering Chemistry Lab	-	-	2	1	25	25	50
Course Objectives		Course Outcomes						
1. To Make the students aware about various techniques available for Analysis of Material. 2. To Impart the skill of handling chemicals and apparatus.		1. Prepare chemical compounds, materials, and standard solutions using conventional laboratory techniques and demonstrate good laboratory practices. 2. Utilize electrochemical and conductometric methods for the quantitative estimation of chemical substances such as acids and metals. 3. Analyze industrial effluents to determine the concentration of pollutants using quantitative chemical analysis methods 4. Interpret water quality parameters and estimate metal concentrations through virtual simulations and demonstration-based experiments.						

Expt. No.	Experiments based on Performance (Any SIX)
1	Synthesis urea Formaldehyde resin
2	Synthesis of Conducting polymer (Polyaniline).
3	Determination of heavy metal from industrial effluent by complexometry method.
4	Determination of heavy metal from industrial effluent by colorimeter
5	Preparation of Natural fibre reinforcement Composite material
6	Determination of strength of the given acid Conductometrically
7	Determine electrochemical equivalent of Cu metal using Faradays law
8	Preparation of different solutions (Molar, Normal & Percent solution)
	Virtual Experiment - Any ONE
9	Determination of Hardness from Tap water/ Well water/ Sea water
10	Determination of Alkalinity of Water Sample using Warder method
	Demonstration - Any ONE
11	Determination of turbidity from industrial effluent.
12	Determination of pH by using different methods.
	Activity - Any ONE
1	Visit to e-waste recycling plant
2	Study of Air /Water Pollution Level at different Sites in Nagpur City.
3	Study of nearby industrial chemicals and safety measures

Text Books

S.N	Title	Authors	Edition	Publisher
1	A Textbook on experiment and calculation in engineering chemistry	S.S. Dara	9th	S.Chand

Reference Books

S.N	Title	Authors	Edition	Publisher
1	Applied Chemistry theory and practical	O.P. Virmani and A.K. Narular	1st	New Age International
2	Laboratory Manual on Engineering Chemistry	Dr. Subdharani	1st	Dhanpat Rai Publishing

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INFORMATION TECHNOLOGY

SEMESTER I

Course Code	Course Name	Th	Tu	Pr	Credits	Evaluation			
						MSE	CA	ESE	Total
26IT101T	Engineering Chemistry	2	-	-	2	10	10	30	50

Course Objectives	Course Outcomes
<p>This course is intended</p> <ol style="list-style-type: none"> To acquaint the students with the basic phenomenon, concepts, knowledge and understanding of the fundamental principles of chemistry. To develop necessary skills and abilities to succeed in engineering education, research, Industry, environment and social context. 	<p>Students will be able to</p> <ol style="list-style-type: none"> Develop innovative ideas for use of advanced materials in sustainable development. Evaluate the role of nanotechnology in industrial applications such as energy storage, medicine, electronics, and environmental remediation. Apply the Basic concepts of Electrochemistry in engineering Evaluate the performance and advantages of Li-Ion battery, fuel cell and photochemical cell in terms of efficiency, working mechanism, and applications. Apply the concept of e-waste management and analyze its environmental impact

Unit I Advanced Material

[10 Hrs]

Introduction-Need for Development, Biodegradable polymers- PLA, PCL - Synthesis, Properties and Applications, Conducting Polymer Polypyrrole, PANI Synthesis, Properties and Applications, Liquid Crystal Polymers- Types, Properties and Applications, Composite Material Constituents- Matrix & Reinforcement, Classification of composite, Advantages & Industrial Applications of Composite materials, Nanomaterials Definition, Carbon Nanotubes, Industrial Applications of Nanotechnology

Unit II Electrochemical Phenomenon & Battery Technology

[10 Hrs]

Introduction- brief idea about Electrochemical & Galvanic series, Electrolytic & Electrochemical Cell, Battery- Primary, Secondary & Reserve batteries- Advantages & Applications, Li Ion Battery, H₂O₂ Fuel Cell, Photochemical Cell - Construction, Working, Advantages & Applications. Electrolysis of water to produce hydrogen

Unit III Chemistry of Electronic waste

[10 Hrs]

Introduction. E- Waste; composition and generation. Types of E-waste, E waste hazardous properties, Effects of pollutant (E-waste) on human health and surrounding environment, Basic principles of E waste management, Component of E waste management- Domestic e-waste disposal, E-waste Control measures- Reduction of waste at source, Segregation & Recycling, Sustainable material recovery & its applications

Text Books

S.N	Title	Authors	Edition	Publisher
1	Text Book of Engineering Chemistry	S.S. Dara,	New	S. Chand and Company Ltd. New Delhi.
2	Textbook of Engineering Chemistry	P.C. Jain and Monica Jain	Sixth	Dhanpat Rai and Sons, New Delhi.
3	E-waste Recycling and Management	Anish Khan, Inamuddin, Abdullah M. Ansiri	Ist	Springer

Reference Books

S.N	Title	Authors	Edition	Publisher
1	A Text book of Engineering Chemistry	Shashi Chawla	Ist	Dhanpat Rai & Sons, New Delhi
2	Applied Chemistry	N. Krishnamurthy: P. Vallinavagam. And K. Jeysubramanian	Ist	TMH

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INFORMATION TECHNOLOGY

FIRST SEMESTER

Course Code	Course Name	Th	Tu	Pr	Credits	Evaluation		
						CA	ESE	Total
26IT102P	Linear Algebra and Calculus Lab	--	--	2	1	25	25	50

Course Objectives	Course Outcomes
<p>This Course is intended to:</p> <ol style="list-style-type: none">To develop students' computational proficiency in solving problems related to linear algebra, calculus, and differential equations using SageMath with an emphasis on symbolic computation and numerical methods.To enable students to apply SageMath for solving and visualizing problems in vector calculus through effective use of graphical and analytical tools.	<p>Students will be able to:</p> <ol style="list-style-type: none">Apply fundamental matrix operations and solve systems of linear equations using Sage Math.Apply concepts of linear algebra to compute eigenvalues and eigenvectors of matrices using SageMath.Evaluate partial derivatives of multivariable functions and solve first and higher-order ordinary differential equations using SageMath.Analyze and visualize vector calculus operations including gradient, divergence, curl, and evaluate line and surface integrals using SageMath.

List of Experiments:-


Experiment No.	List of Experiment
1	To Implement basic matrix operations using SageMath's symbolic computation tools.
2	To check the consistency of a system of linear equations using augmented matrices and SageMath.
3	To solve systems of linear equations using various within the SageMath environment.
4	To determine eigenvalues and eigenvectors of matrices using built-in SageMath functions.
5	To implement and validate the Cayley-Hamilton Theorem with the aid of SageMath.
6	To compute partial derivatives of various orders for multivariable functions using SageMath.
7	To solve first-order and higher-order differential using SageMath's differential equation solvers.
8	To find maxima and minima of functions of two variables using partial derivatives and the second derivative test implemented in SageMath.
9	To compute and visualize vector differential operations using SageMath.
10	To compute vector integrals in SageMath.

Text Books

S.N	Title	Authors	Edition	Publisher
1	Computational Mathematics with SageMath	Paul Zimmermann	1st	SIAM Publications Library.
2	Basics of SageMath : Mathematics(Practicals)	Varun Kumar	1st	Amazon KDP

Reference Books

S.N	Title	Authors	Edition	Publisher
1	Mathematics-SageMath Software System	Indrajeet Varhadpande & Dr. Kirti Sahu	1 st	Himalaya Publication
2	Applied Mathematics Using SageMath	Dr. Kirti Sahu & Dr. Sajid Anwar	1 st	Himalaya Publication

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INFORMATION TECHNOLOGY

FIRST SEMESTER

Course Code	Course Name	Th	Tu	Pr	Credits	Evaluation			
						MSE	CA	ESE	Total
26IT102T	Linear Algebra and Calculus	3	-	-	3	20	20	60	100

Course Objectives	Course Outcomes
<p>This course is intended to</p> <ol style="list-style-type: none"> Develop students' conceptual understanding and computational skills in Matrix Algebra and Differential Equations for solving mathematical problems. Enable learners to apply Multivariate and Vector Calculus for analyzing functions of several variables and modeling physical phenomena. 	<p>Students will be able to</p> <ol style="list-style-type: none"> Apply matrix concepts to solve and analyze linear systems. Analyze and solve engineering problems involving eigenvalues, eigenvectors, and functions of matrices. Solve multivariate calculus problems involving partial derivatives, Jacobians, and optimization. Apply first order and higher order differential equations to solve problems in engineering. Evaluate vector calculus operations and their physical applications.
Unit I	[9Hrs]
Matrix Algebra: Introduction to matrices, Rank of a matrix, Consistency of system of linear equations, Linear and orthogonal transformations, Linear dependence of vectors.	
Unit II	[9Hrs]
Matrices: Characteristics equation, Cayley- Hamilton Theorem, Eigen values and Eigen vectors, Reduction to diagonal form, Reduction of quadratic form to canonical form by orthogonal transformation, Sylvester's theorem.	
Unit III	[9Hrs]
Multivariate Calculus: Functions of several variables and their partial derivatives, Chain rule and total differential coefficient, Jacobians and its properties, Maxima –Minima of functions of two variables, Lagrange's method of undetermined multipliers.	
Unit IV	[9Hrs]
Differential Equations: First order and first degree differential equations: Linear, Higher order differential equations with constant coefficients, Method of variation of parameters, Cauchy's homogeneous linear equation, Applications of differential equations.	
Unit V	[9Hrs]
Vector Calculus: Vector differentiation, Gradient, Directional derivatives, Divergence and Curl with their physical interpretation Solenoidal and Irrotational motions, Scalar potential, Line integral & Work done.	

Text Books

S.N	Title	Authors	Edition	Publisher
1	Higher Engineering Mathematics	B. S. Grewal	38th	Khanna Publishers, New Delhi.
2	Higher Engineering Mathematics	H. K. Das & Er. Rajnish Verma	1st	S. Chand & CO. Pvt. Ltd., New Delhi

Reference Books

S.N	Title	Authors	Edition	Publisher
1	Higher Engineering Mathematics	B.V. Ramana,	11th reprint, 2010.	Tata McGraw Hill New Delhi
2	A Text Book of Engineering Mathematics	Peter O' Neil	8 th	Thomson Asia Pvt. Ltd., Singapore.

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**SECOND SEMESTER**

Course Code	Course Name	Th	Tu	Pr	Credits	Evaluation			
						MSE	CA	ESE	Total
26IT103T	Basics of Python Programming	2	-	-	2	10	10	30	50

Course Objectives	Course Outcomes
<p>This course is intended</p> <ol style="list-style-type: none"> To introduce Python programming language and its features. To provide exercises and projects to practice writing and using functions and modules. To teach manipulation techniques for lists, tuples, dictionaries, and sets. To introduce the concepts of object-oriented programming (OOP). 	<p>Students will be able to:</p> <ol style="list-style-type: none"> Develop problem-solving skills through hands-on programming exercises using functions and their role in modular programming. Gain proficiency in using list comprehensions and other Pythonic techniques to learn how to read from and write to files using Python. Understand the principles of object-oriented programming (OOP).

Unit I : Introduction to Python	[10 Hrs]
<p>Overview of Python programming language, setting up Python environment (interpreter, IDEs), Basic syntax and data types (numbers, strings, lists, tuples, dictionaries), Writing and executing Python scripts, Introduction to control structures (if, else, loops)</p> <p>Functions and Modules: Introduction to functions, defining functions with parameters and return values, Scope and lifetime of variables, Built-in functions and modules, Creating and using user-defined modules.</p>	
Unit II: Data Structures and File	[10 Hrs]
<p>Overview of data structures (lists, tuples, sets, dictionaries), Manipulating lists and tuples (slicing, indexing, built-in functions), Working with dictionaries (key-value pairs, methods), Introduction to list comprehensions, Basic operations on sets (union, Intersection, difference). File Handling: Reading from and writing to files, File modes (read, write, append), Working with text and binary files</p>	
Unit III: Introduction to Object-Oriented Programming (OOP)	[10 Hrs]
<p>Understanding OOP concepts (classes, objects, inheritance, polymorphism), Defining classes and objects in Python, Encapsulation, and abstraction, Implementing inheritance and polymorphism,</p>	

Text Books

Sr. No.	Title	Authors	Edition	Publisher
1	Python Crash Course	Eric Matthes	2nd	No Strech Press
2	Python Programming: An Introduction to Computer Science	John Zelle	2nd	Franklin, Beedle & Associates Inc
3	Problem Solving with Algorithms and Data Structures using Python	Bradley N. Miller and David L. Ranum	2nd	Franklin, Beedle & Associates Inc

Reference Books

Sr. No.	Title	Authors	Edition	Publisher
1	Python Data Structures and Algorithms	Benjamin Baka	1st	Packt
2	Think Python: How to Think Like a Computer Scientist	Allen B. Downe	1st	O'Reilly Media
3	Introduction to Computation and Programming Using Python"	John V. Guttag	3rd	MIT Press

Online Resources

1	https://www.w3schools.com/python/python_intro.asp
2	https://www.programiz.com/python-programming
3	https://www.python.org/
4	https://www.geeksforgeeks.org/python-programming-language/

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**SEMESTER I**

Course Code	Course Name	Th	Tu	Pr	Credits	Evaluation		
						CA	ESE	Total
26IT104P	Logic building with C Lab	-	-	2	1	25	25	50

Course Objectives	Course Outcomes
This course is intended 1. To Understand the basic concept of programming. 2. To Learn the basics of C. 3. To Implement concept of array, functions and pointer and user defined data type 4. To understand the concept of file handling & dynamic memory allocation.	Students will be able to 1. Implement the concept of control structure statement in C programming 2. Develop the program using 1D & 2D array and perform appropriate operation 3. Demonstrate the use of function & pointer 4. Design the program for user defined data type like structure & union 5. Implement the program using file handling & dynamic memory

Sr. No.	Experiments based on
1	Conditional Control Statement & Looping Statement
2	Menu driven program (Switch Control Statement)
3	One-Dimensional (1-D) array
4	Two-Dimensional (2-D) array
5	Function, call by value; call by reference
6	Structure; Union
7	File Handling operations
8	Dynamic memory allocation
9	Micro Project

Text Books

Sr.No.	Title	Authors	Edition	Publisher
1	Let Us C	Yashavant Kanetkar	17 th	BPB Publications
2	Programming with C	Byron Gottfried	3 rd	McGraw Hill
3	Programming in ANSI C	E. Balagurusamy	8 th	McGraw Hill Education

Reference Books

Sr. No.	Title	Authors	Edition	Publisher
1	The Complete Reference C	Herbert Schildt	4	Tata Mc-Graw Hill
2	The 'C' programming language	Kernighan and Ritchie	1	Prentice Hall
3	Programming and Problem Solving	M. Sprankle	2	Pearson Education

Online Resources

1	https://cstutorialpoint.com/c-language-notes/#google_vignette
2	https://www.freecodecamp.org/news/the-c-programming-handbook-for-beginners
3	https://www.w3schools.com/c/index.php
4	https://www.programiz.com/c-programming

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**SEMESTER I**

Course Code	Course Name	Th	Tu	Pr	Credits	Evaluation			
						MSE	CA	ESE	Total
26IT104T	Logic building with C	3	-	-	3	20	20	60	100

Course Objectives	Course Outcomes
This course is intended 1. To Learn the basics of C. 2. To Implement concept of array, functions and pointer and user defined data type 3. To understand the concept of file handling & dynamic memory allocation.	Students will be able to 1. Apply control structures appropriately to solve problems 2. Construct code involving arrays for performing operation on homogeneous data 3. Ability to understand functional code organization 4. Implement code involving structures and union concepts 5. Demonstrate file handling through programs
Unit I: Basics of C Programming	[9Hrs]
Fundamentals of C: C Character Set, Identifiers, Keywords, Data Types, Constants, Variables, Declarations, Expressions, Statements, Symbolic Constants. Operators and Expressions: Arithmetic Operators, Unary Operators, Relational and Logical Operators, Assignment Operators the Conditional Operator, Hierarchy of operations. Control structure statement-Conditional, looping, and switch.	
Unit II: Array	[9Hrs]
Array: one dimensional array, Declaration of array, initialization of array. Operation on array like searching; sorting. 2-D array, Declaration of 2-D array, initialization of 2D- array. Operation on 2D-array like addition , multiplication ,substraction , transpose of 2D matrix etc.	
Unit III: Function, & Pointers	[9Hrs]
Introduction to functions, why use function, Scope rule of function, call by value, call by reference, recursion, Iterative versus recursive style. Pointers, Declaration; initialization of pointers. Advantages of pointers.	
Unit IV: & User-defined data type in C	[9Hrs]
Structure definitions - Initializing structures - Accessing structure members - Array of structures - Pointers to structures - Using structures with functions - Self referential structures - typedef - Unions - Bitwise operators - Bit fields - Enumeration constants	
Unit V: File handling & dynamic memory allocation	[9Hrs]
Console and File I/O: file operation, file opening modes, file copy programming, Text file and binary file, file pointers, Command line argument. Dynamic memory allocation and Malloc(), Calloc(), free(), realloc(), Sizeof() operator.	

Text Books

Sr.No.	Title	Authors	Edition	Publisher
1	Let Us C	Yashavant Kanetkar	17 th	BPB Publications
2	Programming with C	Byron Gottfried	3 rd	McGraw Hill
3	Programming in ANSI C	E. Balagurusamy	8 th	McGraw Hill Education

Reference Books

Sr. No.	Title	Authors	Edition	Publisher
1	The Complete Reference C	Herbert Schildt	4 th	Tata Mc-Graw Hill
2	The 'C' programming language	Kernighan and Ritchie	1 st	Prentice Hall
3	Programming and Problem Solving	M. Sprankle	2 nd	Pearson Education

Online Resources

1	https://cstutorialpoint.com/c-language-notes/#google_vignette
2	https://www.freecodecamp.org/news/the-c-programming-handbook-for-beginners
3	/https://www.w3schools.com/c/index.php
4	https://www.programiz.com/c-programming

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**SEMESTER - I**

Course Code	Course Name	Th	Tu	Pr	Credits	Evaluation		
						CA	ESE	Total
26IT105P	Software Lab – I	-	-	2	1	25	25	50

Course Objectives	Course Outcomes
This course is intended 1. To provide fundamental knowledge and practical skills in MS-DOS, Microsoft Word, and Microsoft Excel for effective document creation and data management. 2. To develop the ability to apply advanced features of Word and Excel, including statistical functions, data visualization, and Mail Merge, for real-life problem solving and reporting.	Students will be able to 1. Execute basic MS-DOS internal and external commands 2. Create and format professional documents 3. Apply formulas, functions, and charts in Microsoft Excel for data analysis and visualization 4. Integrate Word and Excel using Mail Merge and develop a mini project

Expt. No.	Experiments based on
1	Introduction to MS-DOS
2	Practical's based on Executing MS-DOS Internal and External Commands
3	Practical's based on Executing MS-DOS External Commands (Copy and its types)
4	Practical's based on Introduction to Microsoft Word
5	Practical's based on Introduction to Microsoft Excel (basic)
6	Practical's based on Introduction to Microsoft Excel (advanced)
7	Practical's based on Statistical function in excel.
8	Experiment based on Introduction to Mail Merge
9	Mini Project based on Word or Excel

Text Books

S N	Title	Authors	Edition	Publisher
1	The Quick Reference Guide to M. S.DOS Commands	Van Wolverton	1st	
2	Microsoft Word 2021 Step by Step	Joan Lambert	First Edition (2021)	Microsoft Press

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FIRST SEMESTER

Course Code	Course Name	Th	Tu	Pr	Credits	Evaluation		
						CA	ESE	Total
26IT106P	Business Communication Skills – I Lab	-	-	2	1	25	25	50

Course Objectives	Course Outcomes
To develop students' ability to apply, analyze, and evaluate LSRW skills in business and professional communication settings.	Students will be able to: 1. Apply effective pronunciation, grammar, and voice modulation in professional communication. 2. Analyze spoken and written texts using listening and reading comprehension skills for professional and competitive contexts. 3. Create clear and professional business correspondence using appropriate format, tone, and language. 4. Evaluate communication strategies to demonstrate confidence and clarity in structured presentations and group discussions.

Expt. No.	Title of the experiment
1	Pronunciation and Voice Modulation
2	Self-Introduction
3	Grammar
4	Business Correspondence
5	Reading Comprehension for Competitive Exam
6	Listening Skills (Speeches of great Personalities)
7	Presentation Skills
8	Group Discussion

Reference Books:

S. N	Title	Authors	Edition	Publisher
1	Communication Skills for Engineers	C. Muralikrishna & Sunita Mishra	2nd Edition, 2011	Pearson India Education Services
2	Communication Skills	Dr. L. Bisen, Dr. B. Agrawal & Dr. N. T. Kalyani	1st Edition, 2021	Himalaya Publishing House
3	Barron's IELTS Superpack	Lin Lougheed	2012	Barrons Educational Series

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Chairman - BoS	Dean – Academics	Date of Release	Version	