



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

ARTIFICIAL INTELLIGENCE

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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Sr. No.	Course Category	Course Code	Course Title	Hours per Week			Credits	Maximum Marks				Minimum Passing Marks	Duration No. of Hrs for ESE
				L	T	P		Mid-Sem Examination	Continual Assessment	End Sem Examination	Total		
1.	BSC	26AI101T	Engineering Chemistry	2	-	-	2	10	10	30	50	23	1.5
2.	BSC	26AI101P	Engineering Chemistry Lab	-	-	2	1	-	25	25	50	25	-
3.	BSC	26AI102T	Linear Algebra and Calculus	3	-	-	3	20	20	60	100	45	3
4.	BSC	26AI102P	Linear Algebra and Calculus Lab	-	-	2	1	-	25	25	50	25	-
5.	ESC	26AI103T	Logic building and Problem Solving with C	2	-	-	2	10	10	30	50	23	1.5
6.	ESC	26AI103P	Logic building and Problem Solving with C Lab	-	-	2	1	-	25	25	50	25	-
7.	ESC	26AI104T	Digital Electronics	2	-	-	2	10	10	30	50	23	1.5
8.	ESC	26AI104P	Digital Electronics Lab	-	-	2	1	-	25	25	50	25	-
9.	PCC	26AI105P	AI Workshop - I	-	-	4	2	-	25	25	50	25	-
10.	AEC	26AI106P	Business Communication Skills - I Lab	-	-	2	1	-	25	25	50	25	-
11.	IKS	26AI107T	Indian Knowledge Systems [#]	2	-	-	2	10	10	30	50	23	1.5
12.	CC	26AI108T	Co-Curricular Courses – I	-	-	4	2	-	50	-	50	23	-
Total				11	0	18	20	60	260	330	650		

Course to be conducted online through NPTEL.

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Course Code	Course Name	Th	Tu	Pr	Credits	Evaluation			
						MSE	CA	ESE	Total
26AI101T	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 Polymers 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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Course Code	Course Name	Th	Tu	Pr	Credits	Evaluation		
						CA	ESE	Total
26AI101P	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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FIRST SEMESTER

Course Code	Course Name	Th	Tu	Pr	Credits	Evaluation			
						MSE	CA	ESE	Total
26AI102T	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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Course Code	Course Name	Th	Tu	Pr	Credits	Evaluation		
						CA	ESE	Total
26AI102P	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.	Title 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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Course Code	Course Name	Th	Tu	Pr	Credits	Evaluation			
						MSE	CA	ESE	Total
26AI103T	Logic Building and Problem-Solving with C	2	-	-	2	10	10	30	50

Course Objectives	Course Outcomes
<p>This course is intended</p> <ol style="list-style-type: none"> To Develop a strong base in algorithms, flowcharts, and the structure of C programs, along with control structures and operators.. To learn to design modular programs using functions, arrays, strings, and pointers for efficient problem-solving. 	<p>Students will be able to</p> <ol style="list-style-type: none"> Analyze and construct C programs using control structures, operators, and input/output functions to solve computational problems. Design and implement modular programs utilizing functions, arrays, strings for efficient problem-solving Develop and integrate advanced programming techniques including structures, unions to build robust applications.

I: Foundations, Problem Solving, and Control Structures	(10 Hours)
Introduction to Algorithms, Flowcharts, Overview of Programming Languages, Introduction to Compilers, Interpreters, Assemblers, Structure of a C Program, Keywords, Identifiers, Constants, Variables, Data Types, Input/Output using `printf()` and `scanf()`, Operators (Arithmetic, Relational, Logical, Decision Making Statements: `if`, `if-else`, `else-if` Ladder, Nested `if`, `switch-case`, Iterative Statements: Loops (`while`, `do-while`, `for`), Nested Loops, Loop Control Statements: `break`, `continue`..	
Unit II Functions, Arrays, Strings, and Pointers	(10 Hours)
. Functions :User-defined and Library Functions, Function Declaration, Definition & Calling, Parameter Passing: Call by Value and Call by Reference, Recursion (Factorial and Fibonacci examples), Introduction to Storage Classes : `auto`, `static`, `extern`, `register` Arrays : One- dimensional and Two-dimensional Arrays, Array Memory Representation, Array Operations, Strings : String Declaration, Initialization, Input (`fgets()`), Output (`puts()`), String Handling Functions (`strlen`, `strcmp`, `strcpy`, `strcat`), Manual String Manipulation, Introduction to Pointers: Declaration, Initialization	
Unit III User-Defined Data Types, Dynamic Memory, and File Handling	(10 Hours)
Structures : Declaration, Initialization, Accessing Members, Unions ,Difference between Structures and Unions, Dynamic Memory Allocation : `malloc()`, `calloc()`, Introduction to File Handling : File Modes, `fopen()`, `fclose()`, `fprintf()`, File Operations (File Copying), Command-line Arguments.	

Text Books

Sr.No	Title	Authors	Edition	Publisher
1	The C Programming Language	Brian W. Kernighan, Dennis M. Ritchie	2nd Edition	Prentice Hall
2	Programming in ANSI C	E. Balagurusamy	8th Edition	McGraw Hill
3	Let Us C	Yashavant Kanetkar	16th Edition	BPB Publications

Reference Books

Sr.No	Title	Authors	Edition	Publisher
1	How to Solve it by Computer	R.G.Dromey	1st	PHI
2	C Programming: A Modern Approach	K. N. King	2nd Edition	W. W. Norton & Company
3	Data Structures Using C	Reema Thareja	2nd Edition	Oxford University Press

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Course Code	Course Name	Th	Tu	Pr	Credits	Evaluation		
						CA	ESE	Total
26AI103P	Logic Building and Problem Solving Lab	-	-	2	1	25	25	50

Course Objectives	Course Outcomes
This course is intended to 1. Apply fundamental programming concepts 2. Develop modular and structured programs. 3. Integrate advanced features	Students will be able to 1. Design and implement application using control structures, functions, and arrays to manage structured data. 2. Construct and manipulate complex data models. 3. Develop and integrate file handling and dynamic memory techniques

Sr. No.	Title of Experiment
1.	Student Grade Calculator: Develop a program to accept marks of multiple subjects, calculate total, average, and assign grades based on conditions. (Topics: Input/Output, Operators, if-else, else-if Ladder)
2.	Electricity Bill Generator: Write a program to calculate electricity bills based on units consumed using slab rates and display the total amount. (Topics: Arithmetic Operators, Decision Making, switch-case)
3.	Multiplication Table Generator : Create a program to display multiplication tables for a given number and range using loops. (Topics: Loops – for, while, Nested Loops)
4.	Bank Account Simulation: Design a menu-driven program for basic banking operations like deposit, withdrawal, and balance inquiry. (Topics: Functions, switch-case, Call by Value)
5.	Student Record Management using Arrays: Store and display details (name, marks) of multiple students and find the topper. (Topics: Arrays – 1D/2D, Array Operations)
6.	String-Based Password Validator: Create a program to validate a password based on rules (length, character types, etc.). (Topics: Strings, strlen, strcmp, Manual String Handling).
7.	Employee Database using Structures: Develop a program to store and display employee details (ID, name, salary) and search for an employee. (Topics: Structures, Arrays of Structures, Pointers basics)
8.	File-Based Data Storage System: Write a program to store user data in a file and retrieve it later (e.g., saving and reading customer details). (Topics: File Handling – fopen, fprintf, fclose, File Operations)
9.	Mini Project: Student Information and Result Management System : Design and develop a C program to manage student records, calculate results, validate inputs, and store/retrieve data using files. The system should be menu-driven and modular.

Reference Books

S.N	Title	Authors	Edition	Publisher
1	C Programming: A Modern Approach	K. N. King	2nd Edition	W. W. Norton & Company

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Course Code	Course Name	Th	Tu	Pr	Credits	Evaluation			
						MSE	CA	ESE	Total
26AI104T	Digital Electronics	2	-	-	2	10	10	30	50

Course Objectives	Course Outcomes
This course is intended to <ol style="list-style-type: none">1. Introduce the basic concepts of digital electronics and number systems.2. Illustrate logic gates and simple digital circuits.3. Explain the fundamentals of sequential circuits used in digital systems.	Students will be able to <ol style="list-style-type: none">1. Perform binary number conversions and solve simple binary arithmetic problems.2. Analyse and design basic combinational logic circuits using logic gates.3. Explain the working of flip-flops, registers, and counters in digital systems.

Unit I: Basics of Digital Electronics and Number Systems	[10 Hrs]
Introduction to digital electronics, digital versus analog systems, applications of digital systems, binary, octal, decimal and hexadecimal number systems, number system conversions, binary arithmetic, complements, basic logic gates (AND, OR, NOT, NAND, NOR, XOR, XNOR), truth tables, introduction to Boolean algebra, simple Boolean expressions and De Morgan's theorem.	
Unit II: Boolean Algebra and Combinational Circuits	[10Hrs]
Simplification of Boolean expressions, Karnaugh map for simple functions, SOP and POS forms, introduction to combinational circuits, half adder and full adder, half subtractor and full subtractor, multiplexers, demultiplexers, encoders and decoders, simple applications of combinational circuits.	
Unit III: Sequential Circuits and Digital Applications	[10Hrs]
Introduction to sequential circuits, latches and flip-flops (SR, JK, D and T), basic operation of registers and shift registers, synchronous and asynchronous counters, simple digital applications, introduction to memory elements and programmable logic devices.	

Text Books

S.N	Title	Authors	Edition	Publisher
1.	Digital Design,	M. Morris Mano and Michael D. Ciletti	6 th Edition	Pearson Education, 2018.
2.	Digital Fundamentals	Thomas L. Floyd,	11th Edition	Pearson Education, 2015.2018.

Reference Books

S.N	Title	Authors	Edition	Publisher
1.	Digital Electronics: Principles and Integrated Circuits	Anil K. Maini,	Ist Edition	Anil K. Maini, 2015.2018.

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						CA	ESE	Total
26AI104P	Digital Electronics Lab	-	-	2	1	25	25	50

Course Objectives	Course Outcomes
This course is intended 1. Apply basic digital electronics and logic design concepts 2. Design combinational and sequential digital circuits 3. Develop practical skills in implementation and testing of digital systems.	Students will be able to 1. Design and implement basic digital circuits using logic gates and MSI devices 2. Develop sequential circuits using flip-flops, counters, and registers 3. Analyze and troubleshoot digital electronic circuits using hardware and simulation tools

Expt. No.	Title of the experiment
1	Verification of Basic Logic Gates
2	Verification of Boolean Theorems and De Morgan's Laws
3	Design and Implementation of Half Adder and Full Adder
4	Design and Implementation of Half Subtractor and Full Subtractor
5	Implementation of Multiplexer and Demultiplexer
6	Design and Implementation of Encoder and Decoder Circuits
7	Implementation of RS, JK, D and T Flip-Flops
8	Design and Implementation of Counters and Shift Registers

Reference Books

S. N	Title	Authors	Edition	Publisher
1.	Digital Electronics Logic and System	James Bingnell, Robert Donovan	1	McGraw Hill.

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						CA	ESE	Total
26AI105P	AI Workshop - I	-	-	4	2	25	25	50

Course Objectives	Course Outcomes
<p>This course is intended to</p> <ol style="list-style-type: none">1. Interpret the fundamentals of Business Analytics and its role in decision-making.2. Learn the use of Microsoft Excel for data handling, analysis, and visualization.3. Apply statistical techniques using Excel for business data analysis.	<p>Students will be able to</p> <ol style="list-style-type: none">1. Perform data analysis using Excel tools and functions.2. Apply statistical methods and analyse data using Pivot Tables and Pivot Charts.3. Interpret Conditional Formatting to identify patterns and trends.4. Build interactive dashboards for business insights.5. Solve real-world business problems using Excel-based analytical techniques.

Experiment No.	Title of the Experiment
1	To Analyze Business Analytics and Excel Interface.
2	Perform operations using formulae, cell referencing and arithmetic operations to calculate total and percentage of 5 subjects.
3	Perform data cleaning and text handling using functions like TRIM, LEFT, RIGHT, CONCAT
4	Use Excel functions (SUM, AVERAGE, COUNT, MIN, MAX, IF) for data analysis using Sales Data.
5	Perform statistical analysis using Excel formulas: Classify student performance into Pass and Fail categories.
6	Create a project timeline for a mini project (task start date, duration, and progress tracking) using Gantt Chart.
7	Use Conditional Formatting to highlight trends, duplicates, top/bottom values in sample dataset.
8	Create and analyze Charts and Pivot Tables for summarizing and visualizing data and design a Dashboard.
9	Mini Project: Develop a Business Analytics Dashboard using Power BI

Reference Books

Sr.No.	Title	Authors	Edition	Publisher
1	Business Analytics: Data Analysis & Decision Making	S. Christian Albright, Wayne L. Winston	7th Edition	Cengage Learning
2	Business Analysis with Microsoft Excel	Conrad Carlberg	2007 Edition	Que Corp
3	Microsoft Excel Data Analysis and Business Modeling	Wayne L. Winston	Latest Edition	Microsoft Press

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Course Code	Course Name	Th	Tu	Pr	Credits	Evaluation		
						CA	ESE	Total
26AI106P	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	