SUBJECT CODE: BSH201

SUBJECT NAME: ENGINEERING MATHEMATICS-III

COURSE OUTCOMES:

1. Develop logical understanding of the subject.

- 2. Apply mathematical methods & Principle's in solving problems from Engineering fields.
- 3. To produce graduates with mathematical knowledge & computational skills.

CO-PO MAPPING FOR THE SUBJECT CODE BSH201:

СО	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	P011	PO12	PSO1	PSO2	PSO3
CO1	3	2		2	1	2					1				
CO2	3		3												
CO3	3			2							2				

SUBJECT CODE: CSE202

SUBJECT NAME: DATA STRUCTURES

COURSE OUTCOMES:

1. To understand basic concepts of data structures.

2. To apply the various data structures using programming techniques.

3. To study application of data structures.

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	P011	PO12	PSO1	PSO2	PSO3
CO1	1	3	3	2	3							3	3	3	3
CO2															
CO3															

SUBJECT CODE: CSE203

SUBJECT NAME: COMPUTER NETWORK

COURSE OUTCOMES:

1. To understand various networking concepts .

2. To study most widely used computer network technologies.

CO2	3		3				1	2						2	2
CO1	3	2	2	2	1	2					1				
CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	P011	PO12	PSO1	PSO2	PSO3

SUBJECT CODE: CSE204

SUBJECT NAME: DIGITAL ELECTRONICS

COURSE OUTCOMES:

1. Understand different methods for the simplification of Boolean functions, working of conversion circuits.

2. To implement combinational, sequential circuits.

	CO2	3		3							2				2	
I	CO1	3	2	3	2	1	2					1				
	CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	P011	PO12	PSO1	PSO2	PSO3

SUBJECT CODE: CSE205

SUBJECT NAME: LINUX OPERATING SYSTEM

COURSE OUTCOMES:

1. To understand basics of Linux operating system.

2. To implement linux commands.

3. To troubleshooting of linux operating system.

СО	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	P011	PO12	PSO1	PSO2	PSO3
CO1	3	2		2	3	2		1			1		1	2	3
CO2	3		3		2										
CO3	3			2	3						2				

SUBJECT CODE: BSH251

SUBJECT NAME: ENGINEERING MATHEMATICS-IV

COURSE OUTCOMES:

1. Develop logical understanding of the subject.

2. Apply mathematical methods & Principle's in solving problems from Engineering fields.

3. To produce graduates with mathematical knowledge & computational skills.

СО	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	P011	PO12	PSO1	PSO2	PSO3
CO1	3	2		2	1	2					1				
CO2	3		3											1	
CO3	3			2							2				1

SUBJECT CODE: CSE252

SUBJECT NAME: Discrete Mathematics

COURSE OUTCOMES:

1. Develop logical understanding of the subject.

2. Apply mathematical methods & Principle's in solving problems of set, relation and function.

3. To produce graduates with mathematical knowledge necessary for computer science and engineering field.

СО	PO1	PO2	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	P011	PO12	PSO1	PSO2	PSO3
CO1	3		2		2	1	2					1				
CO2	3	1		3											2	
CO3	3				2							2				

SUBJECT CODE: CSE253

SUBJECT NAME: OBJECT ORIENTED PROGRAMMING USING C++

COURSE OUTCOMES:

1. To understand the Object Oriented Programming concepts.

2. Be able to develop the applications or programs using C++ using the concepts of object oriented programming like inheritance, polymorphism, dynamic memory allocation.

CO2	3		3										3		1
CO1	1	2		2	1	2					1		3	3	3
СО	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	P011	PO12	PSO1	PSO2	PSO3

SUBJECT CODE: CSE254

SUBJECT NAME: Microprocessor and computer organization

COURSE OUTCOMES:

1. To understand the architecture and assembly language programming of 8086 microprocessor.

2. To understand organization of computer, various functional units, instruction set design and factors that influence performance of a computer.

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	P011	PO12	PSO1	PSO2	PSO3
CO1	1	1													
CO2		1	3	3										2	

SUBJECT CODE: CSE255

SUBJECT NAME: COMPUTER GRAPHICS

COURSE OUTCOMES:

1. Students should understand the graphics fundamentals.

2. Understanding the 2-D and 3-D graphics primitives.

3. To apply programming techniques using graphics primitives.

СО	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	P011	PO12	PSO1	PSO2	PSO3
CO1	2	2		2	1	2					1		3		
CO2	2		3										2		
CO3	2			2							2		2		

SUBJECT CODE: CSE301

SUBJECT NAME: OPERATING SYSTEM

COURSE OUTCOMES:

1. Understand fundamental concepts of operating system.

2. Understand fundamental concepts of design of modern operating system.

3. To Learn important system resources and their management policies.

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	P011	PO12	PSO1	PSO2	PSO3
CO1		2			1		2					2			
CO2		2					2					1	1	2	
CO3		2					2					1			

SUBJECT CODE: CSE302

SUBJECT NAME: Theory of computation

COURSE OUTCOMES:

1. To Understand the concept of formal languages, grammars and automata theory.

2. To Understand fundamentals for computational theory.

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	P011	PO12	PSO1	PSO2	PSO3
CO1	3	2													
CO2	2	1													

SUBJECT CODE: CSE303

SUBJECT NAME: DATABASE MANAGEMENT SYSTEM

COURSE OUTCOMES:

1. To understand the different issues in the design and implementation of a database system.

2. To design and build simple database systems.

3. To retrieve information efficiently and effectively from database.

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	P011	PO12	PSO1	PSO2	PSO3
CO1		1													
CO2		2			2								2	2	
CO3					3						2				3

SUBJECT CODE: CSE304

SUBJECT NAME: PROGRAMMING IN JAVA

COURSE OUTCOMES:

1. Apply object oriented concepts in programming.

2. The students should able to Handle Exception handling & implement multithreaded programs.

3. Implementation of database programming, GUI with event handling.

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	P011	PO12	PSO1	PSO2	PSO3
CO1	3	2		2	3	2					1				
CO2	3		3		3						2				
CO3	3			2	3						2				

SUBJECT CODE: CSE342

SUBJECT NAME: Digital Image Processing(Elective -I)

COURSE OUTCOMES:

1. Understand digital image processing concepts.

2. Understand Digital image processing steps.

3. To apply digital image processing steps.

4. Implement digital image processing algorithms.

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	P011	PO12	PSO1	PSO2	PSO3
CO1	3	2		2	1	2					1				
CO2	3	2	3											2	
CO3	3			2	2		3				2				1

SUBJECT CODE: CSE3351

SUBJECT NAME: ADVANCE JAVA

COURSE OUTCOMES:

1. Develop skills in Enterprise Java.

2. Understanding advanced concepts in Java Programming.

3. Understanding importance of Service oriented Architecture of todays web application.

СО	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	P011	PO12	PSO1	PSO2	PSO3
CO1					3				3						
CO2	2	2			3				3						
CO3	3	3			3				3						

SUBJECT CODE: CSE352

SUBJECT NAME: SOFTWARE ENGINEERING

COURSE OUTCOMES:

1. Understand Software engineering discipline.

2. To learn about generic models of software development process.

3. To understand the different design techniques and their implementation.

4. To learn various testing and maintenance measures.

СО	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	P011	PO12	PSO1	PSO2	PSO3
CO1	3	2		2	1	2			3		3				
CO2	3		3						3	2	3				
CO3	3			2					3		3				

SUBJECT CODE: CSE354

SUBJECT NAME: SYSTEMS PROGRAMMIG

COURSE OUTCOMES:

1. Understand concepts of system programming, machine language and assembly language.

2. Understand concepts of lexical, syntax and semantic analysis.

3. Understand assemblers, compilers, linkers, interpreters and debuggers.

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	P011	PO12	PSO1	PSO2	PSO3
CO1	3	2		2	1	2								3	
CO2	3		3		2									3	
CO3	3			2										3	

SUBJECT CODE: CSE392

SUBJECT NAME: ARTIFICIAL INTELLIGENCE INTELLIGENCE

COURSE OUTCOMES:

1. To understand concepts of Artificial Intelligence.

2. To learn methods of solving problems using Artificial Intelligence.

3. To introduce the concept of expert systems and machine learning.

4. To be familiar with the applicability, strengths and weakness of the basic knowledge representation, problem solving, machine learning, knowledge acquisition and learning methods .

СО	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	P011	PO12	PSO1	PSO2	PSO3
CO1		2		2	1	2					1			2	
CO2	3	3	3											3	
CO3		3		2							2			2	
CO4		3			3	3								2	

SUBJECT CODE: CSE401

SUBJECT NAME: DATA WARE HOUSING AND DATA MINING.

COURSE OUTCOMES:

1. To understand basic principles, concepts and applications of data warehousing.

2. To understand the concept of data mining and preprocessing.

3. To Understand the concept of association, classification, clustering and classification algorithm.

СО	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	P011	PO12	PSO1	PSO2	PSO3
CO1	3	3	2	2	2				2		1				
CO2	3	2	2		3				3						
CO3	3	2		2	3	2			2		2				

SUBJECT CODE: CSE402

SUBJECT NAME: PRINCIPALS OF COMPILER DESIGN

COURSE OUTCOMES:

- 1. Understand the major phases of compiler.
- 2. To learn and use tools for compiler construction.

CO2	3		3						1					2	
CO1	3	2		2	1	2					1		2		
СО	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	P011	PO12	PSO1	PSO2	PSO3

SUBJECT CODE: CSE403

SUBJECT NAME: OBJECT ORIENTED SOFTWARE MODELLING AND DESIGN

COURSE OUTCOMES:

1. Design a software project using Object Oriented Modelling.

2. Design a software project using Design Patterns.

3. Design an Object-Oriented Software.

СО	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	P011	PO12	PSO1	PSO2	PSO3
CO1	3	2		2	1	2					1			2	
CO2	3		3											1	
CO3	3			2	2						2			3	

SUBJECT CODE: CSE404

SUBJECT NAME: CLOUD COMPUTING

COURSE OUTCOMES:

1. To learn and understand the basic concepts of cloud computing & its model.

2. To learn and understand cloud technologies.

3. To design, develop and deploy cloud applications.

4. To study mobile cloud applications.

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	P011	PO12	PSO1	PSO2	PSO3
CO1	3	2		2	1	2					1				2
CO2	3	1	3		2										3
CO3	3	2		2	3						2				2
CO4	3	1			3										3

SUBJECT CODE: CSE442

SUBJECT NAME: REMOTE SENSING & GEOGRAPHICAL INFORMATION SYSTEMS.

COURSE OUTCOMES:

1. To learn remote data acquisition techniques.

2. To understand the concepts of remotely sensed data processing and visualization.

3. To apply data processing and visualization methods.

СО	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	P011	PO12	PSO1	PSO2	PSO3
CO1	3	2		2	1	2	1		1		1			1	
CO2	3		3		2		1		1					1	
-)		•		_		-		4					-	

SUBJECT CODE: CSE451

SUBJECT NAME: BIG DATA COMPUTING

COURSE OUTCOMES:

1. To know the fundamental concepts of big data and analytics.

- 2. To understand the human resources and business professionals who need to understand the different types of big data components and the underlying technology concepts that support big data.
- 3. To understand concepts of Hadoop, Map Reduce, Hadoop file systems.
- 4. To explore tools and practices for working with big data.

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	P011	PO12	PSO1	PSO2	PSO3
CO1	3	2		2	1	2					1				1
CO2	3		3												1
CO3	3			2							2				1
CO4															1

SUBJECT CODE: CSE452

SUBJECT NAME: SOFT COMPUTING

COURSE OUTCOMES:

1. To understand the concept of soft computing and pattern recognition.

- 2. To analyze feed forward networks and understand the significance of non linear output functions of processing unit in feedback network for pattern storage.
- 3. To understand basics of deep learning.

4. To understand the working of Genetic Algorithms and synthesize applications of soft computing using Genetic Algorithm.

СО	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	P011	PO12	PSO1	PSO2	PSO3
CO1	3	2		2	1	2					1				
CO2	3		3											2	
CO3	3			2							2				2

SUBJECT CODE: CSE492

SUBJECT NAME: ENTERPRISE RESOURCE PLANNING

COURSE OUTCOMES:

1. Understand fundamentals of Organization structure.

2. Understand fundamentals of Business Process, Software Project Management.

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	P011	PO12	PSO1	PSO2	PSO3
CO1	3	2		2	1	2					1				1
CO2	3		3												2

SUBJECT CODE: CSE453

SUBJECT NAME: MACHINE LEARNING

COURSE OUTCOMES:

1. To understand the possibilities and limitations of ML.

2. To understand the main ideas behind the most widely used machine learning algorithms.

3. To understand how to build predictive models from data and analyze their performance.

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	P011	PO12	PSO1	PSO2	PSO3
CO1	3	2		2	1	2					1				1
CO2	3		3												3
CO3	2			2							2			2	