

**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
REGULATION-2017**

COURSE OUTCOMES

SEM V	Course Name: Algebra and Number Theory – MA8551	
	Students will be able to:	
	MA8551.1	Apply the basic notions of groups, rings, fields which will then be used to solve related problems.
	MA8551.2	Explain the fundamental concepts of advanced algebra and their role in modern mathematics and applied contexts
	MA8551.3	☐ Demonstrate accurate and efficient use of advanced algebraic techniques.
	MA8551.4	Demonstrate their mastery by solving non - trivial problems related to the concepts, and by proving simple theorems about the, statements proven by the text.
	MA8551.5	Apply integrated approach to number theory and abstract algebra, and provide a firm basis for further reading and study in the subject.

SEM V	Course Name: Computer Networks– CS8591	
	Students will be able to:	
	CS8591.1	Understand the basic layers and its functions in computer networks.
	CS8591.2	Evaluate the performance of a network
	CS8591.3	Understand the basics of how data flows from one node to another.
	CS8591.4	Analyze and design routing algorithms.
	CS8591.5	Design protocols for various functions in the network.
	CS8591.6	Understand the working of various application layer protocols.

SEM V	Course Name: Microprocessor and Microcontroller – EC8691	
	Students will be able to:	
	EC8691.1	Understand and execute programs based on 8086 microprocessors.
	EC8691.2	Design Memory Interfacing circuits.
	EC8691.3	Design and interface, I/O circuits.
	EC8691.4	Design and implement 8051 microcontroller-based systems.
	EC8691.5	Design protocols for various functions in the network.
	EC8691.6	Understand the working of various application layer protocols.

SEM V	Course Name: Theory of Computation – CS8501	
	Students will be able to:	
	CS8501.1	Construct automata, regular expression for any pattern.
	CS8501.2	Write Context free grammar for any construct.
	CS8501.3	Design Turing machines for any language.
	CS8501.4	Propose computation solutions using Turing machines.
	CS8501.5	Derive whether a problem is decidable or not.

SEM V	Course Name: Object Oriented Analysis and Design – CS8592	
	Students will be able to:	
	CS8592.1	Express software design with UML diagrams.
	CS8592.2	Design software applications using OO concepts.
	CS8592.3	Identify various scenarios based on software requirements.
	CS8592.4	Transform UML based software design into pattern-based design using design patterns.
	CS8592.5	Understand the various testing methodologies for OO software.

SEM V	Course Name: Geographic Information Systems – GE552	
	Students will be able to:	
	GE552.1	Have basic idea about the fundamentals of GIS.
	GE552.2	Understand the types of data models
	GE552.3	Get knowledge about data input and topology.
	GE552.4	Gain knowledge on data quality and standards.
	GE552.5	Understand data management functions and data output

SEM V	Course Name: Microprocessor and Microcontroller Lab– EC8681	
	Students will be able to:	
	EC8681.1	Develop ALP for fixed and Floating Point and Arithmetic operations using 8086 microprocessors.
	EC8681.2	Make use of different I/O interfacing with 8086 microprocessors
	EC8681.3	Construct different waveforms using 8086 microprocessors
	EC8681.4	Model serial and parallel interfacing of 8086 microprocessor
	EC8681.5	Develop assembly language programs for various applications using 8051 microcontrollers

SEM V	Course Name: Object Oriented Analysis and Design Lab– CS8582	
	Students will be able to:	
	CS8582.1	Design and implement projects using OO concepts.
	CS8582.2	Use the UML analysis and design diagrams.
	CS8582.3	Apply appropriate design patterns.
	CS8582.4	Create code from design.
	CS8582.5	Compare and contrast various testing techniques

SEM V	Course Name: Network Lab– CS8581	
	Students will be able to:	
	CS8582.1	Implement various protocols using TCP and UDP.
	CS8582.2	Compare the performance of different transport layer protocols.
	CS8582.3	Use simulation tools to analyze the performance of various network protocols.
	CS8582.4	Analyze various routing algorithms.
	CS8582.5	Implement error correction codes.