SSGMCE SHEGAON

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

COURSE OUTCOMES OF ALL COURSES OF SEVENTH SEMESTER
BE CSE (COMPUTER SCIENCE AND ENGINEERING)

7KS01 SOCIAL SCIENCE & ENGINEERING ECONOMICS

On completion of the course, the students will be able to:

1. To identify the importance of fundamental rights as well as fundamental duties.
2. To study the composition and powers of the Indian Parliament.
3. To study the impact of science and technology on culture and civilization.
4. To identify the different market structures.
5. To study the decision-making process and the relationship between engineering and economics.
6. To identify the importance of Economic Development on the livelihood of the citizens.

7KS02 COMPUTER NETWORKS

On completion of the course, the students will be able to:

1. Describe the basic concepts of Computer Graphics.
2. Demonstrate various algorithms for basic graphics primitives.
3. Apply 2-D geometric transformations on graphical objects.
4. Use various Clipping algorithms on graphical objects.
5. Explore 3-D geometric transformations, curve representation techniques and projections methods
6. Explain visible surface detection techniques and Animation

7KS03 CLOUD COMPUTING

On completion of the course, the students will be able to:

1. Describe the fundamental concept, architecture and applications of Cloud Computing.
2. Discuss the problems related to cloud deployment model.
3. Examine the concept of virtualization.
4. Identify the role of network connectivity in the cloud.
5. Assess different Cloud service providers.
6. Inspect the security issues in cloud service models.

7KS04 ROBOTICS

On completion of the course, the students will be able to:

1. Describe basic concept of robotics.
2. Explain Components of a Robot System & Mechanical Systems.
3. Illustrate Control of Actuators in Robotic Mechanisms.
4. Compare and contrast Robotic Sensory Devices.
5. Recommend Robotics Hardware & Software Considerations in Computer Vision
6. Design Robotic system by taking real time considerations.

7KS04 DATA WAREHOUSE AND MINING

On completion of the course, the students will be able to:

1. Explain the basics of data mining techniques.
2. Identify the similarity and dissimilarity between the data sets.
3. Apply Data Preprocessing to techniques.
4. Describe Data Warehouse fundamentals, Data Mining Principles.
5. Illustrate Multidimensional Data Analysis in Cube Space.
6. Assess Mining Frequent Patterns, Associations, and Correlations.

7KS04 EMBEDDED SYSTEM

On completion of the course, the students will be able to:

1. Describe the basics of embedded systems and structural core units as well as memory organization for embedded system.
2. Explain components of embedded system, characteristics and quality attributes of embedded systems.
3. Discuss role of 8051 microcontroller and its architecture in design of embedded systems.
4. Examine the different Addressing modes and Instruction Set of 8051 microcontrollers.
5. Use knowledge of C programming to do embedded programming.
6. Assess the Real-Time Operating System concepts with VxWorks RTOS.

7KS04 Digital Forensics

On completion of the course, the students will be able to:

1. Describe Digital Forensics and its related preparation
2. Outline Data Acquisition tools
3. Use knowledge to improve crime investigations.
4. Examine Digital Forensic and its validation
5. Assess role of email and social media in investigations
6. Discuss Cloud Forensics.

7KS05 BLOCK CHAIN FUNDAMENTALS

On completion of the course, the students will be able to:

1. Understand the concept of decentralization of the block chain with different layers of blockchain
2. Apply basic cryptographic primitives with encryption standards.
3. Analyze & Design Consensus Algorithms.
4. Examine fundamentals of Bitcoin, how Bitcoin transactions are constructed and used with Bitcoin addresses, accounts, and mining.
5. Understand foundation, architecture, and use of the Ethereum blockchain.
6. Execute & build block chain application/ transaction.

7KS05 IMAGE PROCESSING

On completion of the course, the students will be able to:

1. Explain fundamental steps in Image Processing.
2. Compare different methods for image transform with its properties.
3. Illustrate Image Enhancement in spatial domain.
4. Examine Image Enhancement in Frequency Domain.
5. Apply various methods for segmenting image and identifying image components.

7KS05 OPTIMIZATION TECHNIQUES

On completion of the course, the students will be able to:

1. Describe statement of an optimization problem
2. Examine linear programming procedures to solve optimization problems.
3. Compare different nonlinear programming methods of optimization
4. Discuss Geometric Programming with different constraint
5. Identify the appropriate optimization technique for the given problem
6. Synthesize algorithms to solve real time optimization problems.

7KS06 COMPUTER GRAPHICS LAB

On completion of the course, the students will be able to:

1. Describe the basic concepts of Computer Graphics.
2. Demonstrate various algorithms for basic graphics primitives.
3. Apply 2-D geometric transformations on graphical objects.
4. Use various Clipping algorithms on graphical objects
5. Explore 3-D geometric transformations, curve representation techniques and projections methods
6. Explain visible surface detection techniques and Animation.