SSGMCE SHEGAON

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

COURSE OUTCOMES OF ALL COURSES OF SECOND SEMESTER

ME CE (COMPUTER ENGINEERING)

2KMEF1 NETWORK SYSTEMS DESIGN

After completing this course, student will be able to

1. Develop an understanding of the network analysis, architecture, and design process, including system and service descriptions, performance characteristics, and network supportability
2. Apply requirements analysis techniques, such as identifying and listing user, application, device, network, and performance requirements, developing service metrics, and creating behavior characterizations
3. Analyze flow basics, including flow identification and development, flow models, prioritization, and specifications, and comprehend network architecture, including component architectures, reference architecture, and systems and network architectures
4. Evaluate addressing and routing architecture fundamentals, addressing and routing mechanisms, strategies, and considerations, and their impact on network architecture
5. Define network management architecture objectives and basics, network management mechanisms, and architectural considerations for network management architecture
6. Analyze performance architecture objectives and basics, performance mechanisms, and architectural considerations for performance mechanisms, and develop network layout, design traceability, and design metrics

2KMEF2 ADVANCED COMPILING TECHNIQUES

After completing this course, student will be able to

1. Acquire knowledge of different phases and passes of the compiler and also able to use the compiler tools like LEX, YACC, etc. Students will also be able to design different types of compiler tools to meet the requirements of the realistic constraints of compilers.
2. Understand the parser and its types i.e. Top-Down and Bottom-up parsers and construction of LL, SLR, CLR, and LALR parsing table.
3. Implement the compiler using syntax-directed translation method and get knowledge about the synthesized and inherited attributes.
4. Acquire knowledge about run time data structure like symbol table organization and different techniques used in that.
5. Understand the target machine's run time environment, its instruction set for code generation and techniques used for code optimization.

2KMEF3 EMBEDDED SYSTEMS DESIGN

After completing this course, student will be able to

1. Understand the concepts of embedding system including hardware, software and firmware
2. Understand the fundamentals of real time systems and challenges associated with designing
3. Analyze electronic circuits like digital logic gates, analog circuits and power supplies
4. Implement real world embedded system project with its functionality and performance
5. Develop problem solving skills to address challenges in embedded system such as reliability, security and performance

2KMEF4 SYSTEMS SECURITY

After completing this course, student will be able to

1. Understand fundamental concepts of system security such as attacks and their solutions.
2. Understand components of attacks on application programs and control measures on this.
3. Know Operating System protection through protection mechanism and Trusted Operating System Designs.
4. Understand Database security through various aspects of security mechanism.
5. Understand threats to Computer Network and its controls.