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414444: Elective II - Embedded System

Teaching Scheme:
Lectures: 4 Hours/Week

Examination Scheme:
Theory: 100 Marks

Prerequisite: Digital circuits and Logic Design, Knowledge of microcontrollers, microprocessors
Objectives: Understand the basics of embedded systems and its applications

Unit I	Introduction to Embedded System Definition of Embedded System & its classification, characteristics of embedded systems, design parameters/Metrics of embedded systems. Components of embedded systems with review of Microprocessor & Microcontrollers, introduction to embedded processor, Digital signal processor, Application specific system processor, Multiprocessor systems using General Purpose Processor	(8 Hrs.)
Unit II	System Processor Standard Single purpose processors: Peripherals, Introduction, Timers, Counters and watchdog Timers, UART, Pulse Width Modulators, Clocking unit, Real Time Clock Reset Circuitry. Processor and memory organization, processor and memory selection, Memory Types, Memory map and addresses.	(8Hrs.)
Unit III	I/O Interfacing I/O devices: ADC/DAC, Optical Devices such as LED/LCD Display devices, Keyboard controller, Timer & counting devices, serial communication using I2C, SPI,CAN, RS232, & USB. Device drivers & interrupt service Mechanism: ISR concepts and ISR handling mechanisms	(8 Hrs.)
Unit IV	Programming Concepts, Embedded System Programming C & C++ Assemble language high level lang. C program Elements, Micros & Function, Data types, Data Structures, Modifiers, Statement, loops & Pointers, queues & Stacks, List & order list, Embedded System Programming in C++ & Java. C Program Compilers & Cross Compilers. In Circuit emulator. Software engineering practices in the embedded software development process.	(8Hrs.)
Unit V	Real Time Operating Systems Real Time & embedded system OS: off the shelf operating Systems, Embedded OS, Real Time OS, hand held OS. RTOS Tashk and task scheduling, Interrupt Latency & Response time, Strategy for synchronization between the processes, ISR, OS functions & tasks for resource management, Semaphores, message Queue, mailbox, pipes, signals, event registers, memory management, priority Inversion problems and solutions.	(8 Hrs.)
Unit VI	Overview & Applications of Embedded System Case Study of coding for Vending machine system using MUCOSRTOS, Case study coding for send application layer byte streams on A TCP/IP Network Using RTOS Vx works, Case study of an Embedded System for an adapting Cruise control System in a car, Case Study in embedded system for Smart Card, Case Study of Digital camera.	(8 Hrs.)

Text Books :

1. Rajkamal, "Embedded System Architecture Programming Design", Tata Graw Hill Publication
2. Dr. K.V.K.K. Prasad, "Embedded / Real time System : Concepts, Design & Programming – Black book", Dreamtech Press Publication
3. Jonathan Valvano, "Embedded Microcomputer Systems - Real Time Interfacing", CENGAGE Learning.
4. Peckol, "Embedded System", Wiley Publishers
5. David Simon, "An Embedded Software Primer "

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