R.M.K. ENGINEERING COLLEGE

RSM Nagar, Kavaraipettai – 601 206

Department of Electronics and Communication Engineering

Course Outcomes: ODD - EVEN Semester 2018-19

Sl. No.	Semester	Theory/Practical	Course Code / Course Name
1.	3	Theory	MA8352 -Linear Algebra and Partial Differential Equations
2.	3	Theory	EC8393 -Fundamentals of Data Structures In C
3.	3	Theory	EC8351 -Electronic Circuits- I
4.	3	Theory	EC8352 -Signals and Systems
5.	3	Theory	EC8392 -Digital Electronics
6.	3	Theory	EC8391-Control Systems Engineering
7.	3	Practical	EC8381-Fundamentals of Data Structures in C Laboratory
8.	3	Practical	EC8361-Analog and Digital Circuits Laboratory
9.	3	Practical	HS8381-Interpersonal Skills / Listening & Speaking
10.	4	Theory	MA8451- Probability and Random Processes
11.	4	Theory	EC8452- Electronic Circuits II
12.	4	Theory	EC8491- Communication Theory
13.	4	Theory	EC8451- Electromagnetic Fields
14.	4	Theory	EC8453- Linear Integrated Circuits
15.	4	Theory	GE8291- Environmental Science & Engineering
16.	4	Practical	EC8461- Circuit Design & Simulation Laboratory
17.	4	Practical	EC8462- Linear Integrated Circuits Laboratory
18.	5	Theory	EC6501 - Digital Communication
19.	5	Theory	EC6502 - Principles of Digital Signal Processing
20.	5	Theory	EC6503 -Transmission Lines and Wave Guides
21.	5	Theory	GE6351- Environmental Science and Engineering
22.	5	Theory	EC6504- Microprocessor and Microcontroller
23	5	Practical	EC6511- Digital Signal Processing Laboratory
24.	5	Practical	EC6512 -Communication System Laboratory
25.	5	Practical	EC6513- Microprocessor and Microcontroller Laboratory
26.	6	Theory	MG6851- Principles of Management
27.	6	Theory	CS6303- Computer Architecture
28.	6	Theory	CS6551 -Computer Networks
29.	6	Theory	EC6601 -VLSI Design
30.	6	Theory	EC6602- Antenna and Wave propagation
31.	6	Theory	EC6001- Medical Electronics
32.	6	Practical	EC6611 -Computer Networks Laboratory
33.	6	Practical	EC6612 -VLSI Design Laboratory
34.	6	Practical	GE6674- Communication and Soft Skills - Laboratory Based
35.	7	Theory	EC6701-RF and Microwave Engineering
36.	7	Theory	EC6702 -Optical Communication and Networks
37.	7	Theory	EC6703 -Embedded and Real Time Systems
38.	7	Theory	IT6005 -Digital Image Processing
39.	7	Theory	EC6011- Electro Magnetic Interference and

			Compatibility
40.	7	Theory	EC6014 -Cognitive Radio
41.	7	Practical	EC6711- Embedded Laboratory
42.	7	Practical	EC6712 -Optical and Microwave Laboratory
43.	7	Theory	EC6801- Wireless Communication
44.	8	Theory	EC6802 -Wireless Networks
45.	8	Theory	GE6075 -Professional Ethics in Engineering
46.	8	Theory	GE6757 -Total Quality Management
47.	8	Practical	EC6811- Project Work

Third Semester (Academic Year 2018-19)

MA8352 - Linear Algebra and Partial Differential Equations

COs	Course Outcome: The students, after the completion of the course, are expected to ….
CO1	Understanding the basic notions associated with vector spaces and its properties.
CO2	Discuss the concept of linear transformation , eigenvalues and eigenvectors of a matrix
CO3	Relate the concept of inner product space in orthogonalization.
CO4	Understanding the fundamental concepts of partial differential equations and the various solution procedures for solving the first order non-linear partial differential equations.
CO5	Utilize the Fourier series problems in current flow, sound waves
CO6	Able to formulate and solve the physical problems of engineering.

EC8393 - Fundamentals of Data Structures In C

COs	Course Outcome: The students, after the completion of the course, are expected to….
CO1	Understand the basic features of C Programming and their applications
CO2	Enumerate the structured data types and dynamic memory objects and apply for real world scenario
CO3	Implement various linear data structures operations in C

CO4	Implement various non linear data structures operations in C
CO5	Analyze the various searching and sorting algorithms and appropriately choose it for an given real world scenario
CO6	Analyze a hash table and overflow handling

EC8351 - Electronic Circuits- I

COs	Course Outcome: The students, after the completion of the course, are expected to ....
CO1	**Design** the amplifier circuits using various biasing methods.
CO2	**Analyze** the single stage and multistage BJT amplifiers using small signal equivalent model.
CO3	**Analyze** JFET amplifiers using small signal equivalent model.
CO4	**Analyze** MOSFET amplifiers using small signal equivalent model.
CO5	**Determine** the frequency response of single stage and multistage amplifiers.
CO6	**Design** and fault analyze dc power supplies.

EC8352 – Signals & Systems

COs	Course Outcome: The students, after the completion of the course, are expected to ....
CO1	Examine the operations of signals
CO2	Analyze the Continuous time signals using Transforms
CO3	Examine the Continuous time LTI systems using Transforms

CO4	Illustrate the effect of aliasing through Baseband sampling theorem
CO5	Analyze the Discrete time signals using Transforms
CO6	Demonstrate the Discrete time LTI systems using Transforms

EC8392 – Digital Electronics

COs	Course Outcome: The students, after the completion of the course, are expected to ….
CO1	Analyze different types of digital electronic circuit using various mapping and logical tools and know the techniques to prepare the most simplified circuit using various mapping and mathematical methods.
CO2	Design various combinational digital circuits using logic gates
CO3	Perform the analysis and design of synchronous sequential circuits
CO4	Perform the analysis and design of asynchronous sequential circuits
CO5	Assess the nomenclature and technology in the area of memory devices and apply the memory devices in different types of digital circuits for real world application.
CO6	Analyze the electronic circuits involved in the design of logic gates

EC8391 – Control Systems Engineering

COs	Course Outcome: The students, after the completion of the course, are expected to ….
CO1	Distinguish various mathematical modeling of physical systems
CO2	Perform time domain analysis and its compensation technique required to stabilize control

	system
CO3	Perform frequency domain analysis and its compensation technique required to stabilize control system
CO4	Analyze the stability of the control system using various techniques
CO5	Perform the state variable analysis of the control system
CO6	Analyze the sampled data control system.

Practicals

EC8381- Fundamentals of Data Structures in C Laboratory

COs	Course Outcome: The students, after the completion of the course, are expected to…
CO1	To understand and implement basic data structures using C
CO2	To write basic and advanced programs in C
CO3	To apply linear and non-linear data structures in problem solving
CO4	To learn to implement functions and recursive functions by means of data structures
CO5	To implement searching and sorting algorithms

EC8361 – Analog & Digital Circuits Laboratory

COs	Course Outcome: The students, after the completion of the course, are expected to ….
CO1	Design and test rectifiers , filters and regulated power supplies
CO2	Design and test digital logic circuits
CO3	Analyze various amplifiers using BJT and FET
CO4	Determine the differences between cascade and cascode amplifiers
CO5	Measure CMRR in a differential amplifier
CO6	Simulate and analyze analog and digital circuits using Pspice

HS8381-Interpersonal Skills / Listening & Speaking

COs	Course Outcome: The students, after the completion of the course, are expected to….
CO1	Understand the Listening and responding appropriately
CO2	Participate in group discussions
CO3	Make effective presentations
CO4	Make effective interpretations
CO5	Participate confidently in conversations both formal and informal
CO6	Participate appropriately in conversations both formal and informal

Fourth Semester (Academic Year 2018-19)

MA8451- Probability and Random Processes

COs	Course Outcome: The students, after the completion of the course, are expected to ….
CO1	Understand the fundamental knowledge of the concepts of probability and have knowledge of standard distributions which can describe real life phenomenon.
CO2	Understand the basic concepts of one and two-dimensional random variables and apply in engineering applications.
CO3	Apply the concept random processes in engineering disciplines.
CO4	Understand and apply the concept of correlation and spectral densities.
CO5	Able to analyze the response of random inputs to linear time invariant systems.
CO6	The students will have an exposure of various distribution functions and help in acquiring skills in handling situations involving more than one variable.

EC8452- Electronic Circuits II

COs	Course Outcome: The students, after the completion of the course, are expected to ….
CO1	Analyze different types of amplifier with negative feedback
CO2	Design & Analysis of transistorized RC Oscillators & LC oscillators
CO3	Analyze transistorized tuned amplifiers
CO4	Analysis of wave shaping circuits

CO5	Design & Analysis of multivibrators
CO6	Summarize the operation of power amplifiers.

EC8491- Communication Theory

COs	Course Outcome: The students, after the completion of the course, are expected to ….
CO1	Discuss the principle concepts and the spectral characteristics of various amplitude modulation techniques.
CO2	Discuss the principle concepts and the spectral characteristics of various angle modulation techniques.
CO3	Interpret the properties and concepts of random process in the design of communication systems.
CO4	Demonstrate the performance of noise in AM and FM systems.
CO5	Gain knowledge in sampling and quantization.
CO6	Discuss the principle concepts of Pulse communication system.

EC8451- Electromagnetic Fields

COs	Course Outcome: The students, after the completion of the course, are expected to ….
CO1	Explain the concept of field potentials due to static charges
CO2	How materials(Conductors, Dielectrics, etc...) affect electric fields
CO3	Explain the concept of field potentials due to magnetic fields

CO4	To understand wave propagation in lossless and in lossy media
CO5	Analyze the relation between the fields under time varying situations
CO6	Find the fundamental relations for time varying fields using Maxwell's Equations

EC8453- Linear Integrated Circuits

COs	Course Outcome: The students, after the completion of the course, are expected to ….
CO1	Describe the characteristics of operational amplifiers.
CO2	Design the various linear and non-linear applications of op-amp.
CO3	Apply the multiplier IC's and PLL in various applications
CO4	Compare the specifications of ADC and DAC.
CO5	Design oscillators and voltage regulators
CO6	Infer the applications of special function IC's.

GE8291- Environmental Science & Engineering

COs	Course Outcome: The students, after the completion of the course, are expected to ….
CO1	Definition, scope and importance of Risk and hazards
CO2	About the Concepts Of an ecosystem
CO3	Explain the types of Natural Resources

CO4	Outline the Social Issues and the Environment
CO5	Compare the Human Population and the Environment
CO6	Role of information technology in environment and human health

Practicals
EC8461- Circuit Design & Simulation Laboratory

COs	Course Outcome: The students, after the completion of the course, are expected to ….
CO1	Analyze various feedback amplifiers
CO2	Design oscillators and determine their frequency of operation
CO3	Construct tuned amplifiers and determine their resonant frequency
CO4	Design wave shaping circuits and observe their waveforms
CO5	Analyze multivibrator circuits and their output waveforms
CO6	Simulate feedback amplifiers, multivibrators and wave shaping circuits using SPICE tool and observe their outputs

EC8462- Linear Integrated Circuits Laboratory

COs	Course Outcome: The students, after the completion of the course, are expected to ….
CO1	Design Oscillators and Amplifiers using operational amplifiers
CO2	Design filters using OPAMP and perform experiment on frequency response
CO3	Analyze the working of PLL and use PLL as frequency multiplier

CO4	Design DC power supply using ICs
CO5	Analyze the performance of oscillators and multivibrators using PSPICE
CO6	Utilize PSPICE Software for circuit design

Fifth Semester (Academic Year 2018-19)

EC6501 - Digital Communication

COs	Course Outcome: The students, after the completion of the course, are expected to….
CO1	Learn the basic concepts of Information theory and source coding techniques for Communication Systems.
CO2	Understand and compare différent waveform coding schemes.
CO3	Analyse the principles involved in Baseband signal Transmission and Réception
CO4	Compare différent digital modulation schemes and design of non-coherent receivers.
CO5	Interpret the knowledge on channel coding.
CO6	Learn and relate différent error control coding schèmes.

EC6502 - Principles of Digital Signal Processing

COs	Course Outcome: The students, after the completion of the course, are expected to ….
CO1	To apply DFT for the analysis of digital signals & systems
CO2	To design analog and digital IIR filters

CO3	To design analog and digital FIR filters
CO4	To characterize finite Word length effect on filters
CO5	To design the Multirate Filters
CO6	To apply Adaptive Filters to equalization

EC6503 -Transmission Lines and Wave Guides

COs	Course Outcome: The students, after the completion of the course, are expected to ….
CO1	Understand propagation of signals through transmission lines.
CO2	Analyze signal propagation at Radio frequencies.
CO3	Implement Different methods for impedance matching
CO4	Design different types of filters
CO5	Have knowledge on radio propagation in guided systems.
CO6	Impart knowledge on cavity Resonators

GE6351- Environmental Science and Engineering

COs	Course Outcome: The students, after the completion of the course, are expected to ….
CO1	Definition, scope and importance of Risk and hazards
CO2	About the Concepts Of an ecosystem.

CO3	Explain the types of Natural Resources
CO4	Outline the Social Issues and the Environment.
CO5	Compare the Human Population and the Environment.
CO6	Role of information technology in environment and human health.

EC6504- Microprocessor and Microcontroller

COs	Course Outcome: The students, after the completion of the course, are expected to ….
CO1	To discuss the architecture of 8086 microprocessor and acquire skills in 8086 programming.
CO2	To design the system using 8086
CO3	To classify the various interfacing techniques with 8086
CO4	To discuss the architecture of 8051 microcontroller
CO5	To program various devices using 8051
CO6	To interface the various devices using 8051

Practicals
EC6511- Digital Signal Processing Laboratory

COs	Course Outcome: The students, after the completion of the course, are expected to ….
CO1	Demonstrate the abilities towards DSP processor based implementation of DSP system
CO2	Analyze finite word length effects of system
CO3	Analyze multi-rate filters of DSP system

CO4	Estimate the frequency response of various FIR and IIR filters
CO5	Compose linear and circular convolution using DFT and DSP system
CO6	Compile decimation and interpolation of multi-rate filters on DSP system

EC6512 -Communication System Laboratory

COs	Course Outcome: The students, after the completion of the course, are expected to ….
CO1	To visualize the effects of sampling and TDM
CO2	To Implement AM & FM modulation and demodulation
CO3	Simulate end-to-end Communication Lin
CO4	Demonstrate their knowledge in base band signaling schemes through implementation FSK, PSK and DPSK
CO5	Apply various channel coding schemes & demonstrate their capabilities towards the improvement of the noise performance of communication system
CO6	simulate & validate the various functional modules of a communication system

EC6513- Microprocessor and Microcontroller Laboratory

Cos	Course Outcome : The students, after the completion of the course, are expected to ….
CO1	**Experiment with** 8086 Microprocessor to write ALP for basic Arithmetic , Logical, fixed, floating Point, Code Conversion and String operations
CO2	**Experiment with** 8086 Microprocessor to display System date, Size , Time Delay and Password checking.
CO3	**Make use of** Interfacing Kits with processor for applications like stepper motor, Traffic lightcontroller etc

CO4	**Utilize** interfacing Kits with processor to generate waveforms, A/D ,D/A and I/Os operations
CO5	**Experiment with** 8051 Microcontroller to write ALP for basic Arithmetic, Logical and Code Conversion
CO6	**Make use of** 8086 processor to Count Number of Odd and Even Numbers and also find LCM of two 8 Bit numbers

Sixth Semester (Academic Year 2018-19)

MG6851- Principles of Management

Cos	Course Outcome: The students, after the completion of the course, are expected to ….
CO1	Explaining the basic principles, concepts, evolution of management thinking, the role of managers and different types of organization.
CO2	Apply knowledge on Planning tools and techniques. Discuss the stages in decision making process and explain the types of strategies in order to make rational decisions.
CO3	Illustrate the concepts of organizing and its steps of an organization.
CO4	Assess and compare different leadership styles and select appropriate style for an organization and explain various theories of motivation
CO5	Explain the process of controlling and various controlling techniques
CO6	Illustrate the use of computers and IT in management to control productivity and management problems. Interpret the advantage of Reporting.

CS6303- Computer Architecture

Cos	Course Outcome: The students, after the completion of the course, are expected to ….
CO1	Identify and describe the major components of computer system
CO2	Distinguish various multiplication and division algorithms
CO3	Interpret and apply various addressing modes
CO4	Analyze pipelined control units and various types of hazards in the instructions

CO5	Compare properties of shared memory and distributed multiprocessor systems and cache coherency protocols.
CO6	Analyze the performance of memory using performance equation in a digital computer

CS6551 -Computer Networks

Cos	Course Outcome : The students, after the completion of the course, are expected to ….
CO1	Classify the components required to build different types of networks.
CO2	Illustrate the functionality of Media Access and Internetworking.
CO3	Trace the flow of information from one node to another node in the network.
CO4	Explain the overview of Transport Layer and its Application requirements.
CO5	Study the Tradition Applications of Networks.
CO6	Get exposed to the Network Management Protocol.

EC6601 -VLSI Design

Cos	Course Outcome: The students, after the completion of the course, are expected to ….
CO1	Understand the basic concepts of MOS transistors and Realize stick and layout diagram for various logic functions.
CO2	Realize the various logic gates and functions using different logic families.
CO3	Design memory elements in sequential circuits.

CO4	Understand the concepts of sequential circuits with different clocking schemes.
CO5	Analyze the critical path delay of various arithmetic building blocks.
CO6	Differentiate between Full custom and Semi-custom IC design.

EC6602- Antenna and Wave propagation

Cos	Course Outcome : The students, after the completion of the course, are expected to ….
CO1	Analyze the radiation characteristics of antennas.
CO2	Determine the field components of aperture antennas.
CO3	Compare the radiation pattern of end fire and broad side arrays
CO4	Design the frequency independent antennas
CO5	Explain the various antenna measurement techniques
CO6	Discuss the characteristics of radio-wave propagation with respect to atmospheric layers

EC6001- Medical Electronics

Cos	Course Outcome: The students, after the completion of the course, are expected to ….
CO1	Discuss the application of electronics in diagnostic and therapeutic area.
CO2	Measure biochemical and various physiological information.
CO3	Describe the working of units which will help to restore normal functioning.
CO4	Assist biological device

CO5	Study Physical Medicine
CO6	Study about Biotelemetry device

Practicals
EC6611 -Computer Networks Laboratory

Cos	Course Outcome: The students, after the completion of the course, are expected to ….
CO1	Communicate between two desktop compute
CO2	Implement the different protocols
CO3	Program using sockets.
CO4	Implement and compare the various routing algorithms
CO5	Use simulation tool
CO6	Implement different types of sliding window protocol

EC6612 -VLSI Design Laboratory

Cos	Course Outcome : The students, after the completion of the course, are expected to ….
CO1	Recall the basics of Verilog language
CO2	Develop HDL code for basic as well as advanced digital integrated circuits
CO3	Model NAND, NOR and Inverter using Microwind layout design
CO4	Plan to place and route the logic modules

Cos	Course Outcome : The students, after the completion of the course, are expected to ….
CO5	Design and simulation of analog IC blocks using EDA tool
CO6	Layout Extraction of analog IC blocks using EDA tool

GE6674- Communication and Soft Skills - Laboratory Based

Cos	Course Outcome : The students, after the completion of the course, are expected to ….
CO1	Understand the Listening and responding appropriately
CO2	Participate in group discussions
CO3	Make effective presentations
CO4	Participate confidently and appropriately in conversations both formal and informal
CO5	Attend job interviews and be successful in them
CO6	Develop adequate Soft Skills required for the workplace

Seventh Semester (Academic Year 2018-19)
EC6701-RF and Microwave Engineering

Cos	Course Outcome : The students, after the completion of the course, are expected to ….
CO1	Discuss the various types of transmission lines and propagation of signals.
CO2	Examine signal propagation at Radio frequencies
CO3	Implement different methods of impedance matching
CO4	Analyze the field components in guided systems
CO5	Explain the RF system design Concepts.

CO6	Analyze the RF amplifier power and stability considerations

EC6702 -Optical Communication and Networks

Cos	Course Outcome : The students, after the completion of the course, are expected to ….
CO1	Classify different elements of ray optics and discuss electromagnetic mode theory in optical Waveguides
CO2	Discuss the channel impairments in optical waveguides and examine coupling and splicing techniques.
CO3	Classify light sources and detectors
CO4	Examine optical receiver operation and differentiate different measurement techniques
CO5	Describe basic optical networks
CO6	Outline on classification, performance of optical networks

EC6703 -Embedded and Real Time Systems

Cos	Course Outcome : The students, after the completion of the course, are expected to ….
CO1	Define the Architecture and programming of ARM Processor.
CO2	Outline the Concepts Of real time embedded systems and computing platforms.
CO3	Explain the basics Of real time operating systems with examples and apply the scheduling algorithm Concept.
CO4	Build the System design techniques to develop software for embedded systems.
CO5	Compare the several purpose operating system and real time operating system.
CO6	Design the various real time applications using system concepts.

IT6005 -Digital Image Processing

Cos	Course Outcome : The students, after the completion of the course, are expected to ….
CO1	Understand the digital image fundamentals
CO2	Understand and Apply image enhancement techniques
CO3	Analyze and apply the image restoration Techniques
CO4	Analyze and apply the image segmentation Techniques
CO5	Understand the concept of wavelet and the application of image compression techniques
CO6	Represent the features of images and Recognize the patterns based on matching

EC6011- Electromagnetic Interference and Compatibility

Cos	Course Outcome: The students, after the completion of the course, are expected to ….
CO1	Define the basics of EMI and EMC
CO2	Analyse the various coupling mechanism
CO3	Find solution to EMI problems in PCB level and system level design
CO4	Explain the various Standards and Regulations.
CO5	Compare the various EMI test methods
CO6	Measure emission immunity level from different systems to couple with the prescribed EMC Standards

EC6014 -Cognitive Radio

Cos	Course Outcome: The students, after the completion of the course, are expected to ….
CO1	Define the basics of the software defined radios
CO2	Make use of computing resources for studying SDR architecture
CO3	Explain the basics of the cognitive radios
CO4	Make use of cognitive functions, components and design rules for studying CR architecture.
CO5	Design the wireless networks based on the cognitive radios
CO6	Explain the concepts behind the wireless networks and next generation networks

Practicals
EC6711- Embedded Laboratory

Cos	Course Outcome: The students, after the completion of the course, are expected to ….
CO1	Develop the program in ARM for RGB led based applications
CO2	Interface memory and write program related to memory operation
CO3	Analyze the performance of wireless communication services
CO4	Develop program for interfacing keyboard display
CO5	Develop program for interfacing stepper motor
CO6	Formulate a mini project using embedded system

EC6712 -Optical and Microwave Laboratory

Cos	Course Outcome: The students, after the completion of the course, are expected to ….

CO1	Inspect the behavior of various microwave components and devices
CO2	Estimate analog and digital link frequency response of an optical fiber cable
CO3	Examine the various connector and bending losses prevailing in an optical fiber cable
CO4	Measure the characteristics of directional coupler, isolator ,circulator and magic tee
CO5	Test the radiation pattern and formulate the efficiency of microwave antenna
CO6	Discuss the DC characteristics of LED and Photo diode and calculate its efficiency

Eighth Semester (Academic Year 2018-19)

EC6801- Wireless Communication

Cos	Course Outcome: The students, after the completion of the course, are expected to ….
CO1	Explain the Characteristics of fading in wireless channels
CO2	Describe the fundamentals of Cellular Architecture
CO3	Use various signaling schemes for wireless communication channels
CO4	Compare the performance of channel using various propagation models
CO5	Analyze the various mitigation techniques to address fading and interference in multipath propagation.
CO6	Explain the Characteristics of fading in wireless channels

EC6802 -Wireless Networks

Cos	Course Outcome: The students, after the completion of the course, are expected to ….

CO1	Explain various standards and technologies in wireless LAN
CO2	Illustrate packet delivery and routing mechanism used in mobile network layer.
CO3	Compare traditional and classical TCP in mobile transport layer.
CO4	To explain overview of UTMS terrestrial radio access network.
CO5	To describe about 4G networks vision, features and challenges.
CO6	Summarize LTE networks, their architectures and the protocols involved.

GE6075 -Professional Ethics in Engineering

Cos	Course Outcome: The students, after the completion of the course, are expected to ….
CO1	Create awareness on human values and apply ethics in society.
CO2	Identify an ethical issue and assess variety of moral issues using ethical theories in engineering.
CO3	Analyze engineering, social experimentation and engineers as responsible experimenters. .
CO4	Realize engineers' safety and their responsibilities, professional rights, employee rights, and intellectual property rights.
CO5	Interpret various types of ethics like business ethics, environmental ethics and computer ethics.
CO6	Take part as engineers as managers, consulting engineers, engineers as expert witness and advisors.

GE6757 -Total Quality Management

Cos	Course Outcome: The students, after the completion of the course, are expected to ….
CO1	Explain the customer care management systems
CO2	Apply the leadership qualities in management
CO3	Explain the Benchmark in manufacturing system
CO4	Execute the Quality Management principles using six sigma
CO5	Explain the ISO Auditing system
CO6	Explain the customer care management systems

Practicals
EC6811- Project Work

Cos	Course Outcome: The students, after the completion of the course, are expected to ….
CO1	Analyze the various factors and techniques currently in use in their respective field of study
CO2	Evaluate a new and border field of engineering not restricted by any boundary
CO3	Develop their ability to solve their specific problem right from its identification
CO4	Study about different literature reviews till the successful solutions
CO5	Appraise the solution by formulating proper methodology related to the problem
CO6	Simplify the challenging engineering practical problems in real world