METHODIST
COLLEGE OF ENGINEERING AND TECHNOLOGY
Approved by AICTE New Delhi | Affiliated to Osmania University, Hyderabad

Estd : 2008   Address : King Koti Road, Abids, Hyderabad, Telangana, 500001|Email : principal@methodist.edu.in

2022-2**3 SEM-I**
GROUP-A (MECH, ECE & AI&DS)

S No	Course Code	Course Title	CO No.	Course Outcome
1	MC801PO	INDIAN CONSTITUTION	CO1	Know the background of thr present constitution of India
			CO2	Understand the working of the union,state and local levels
			CO3	gain consciousness on the fundamentals rights and duties.
			CO4	Be able to understand the functioning and distribution of financial resources between the states
			CO5	Be exposed to the reality of hierarchical Indian social structure and the ways the grievances deprived section can be addressed to raise human dignity in a democratic way.
			CO6	Be able to understand the functioning and distribution of financial resources between the centre and state
2	BS201MT	MATHEMATICS-I	CO1	To Test for the convergence and divergence of infinite series using the comparison test, Ratio test, Cauchy's n'th root test, Leibnitz's test, and also analyzing the nature of series.
			CO2	To Explain the concepts of derivatives using mean value theorems and their generalization (Taylor's and Meclaurin's series.). Concepts of curvature, evolutes, involutes, envolpes of family cf curves.
			CO3	To Find Partial derivatives of functions of two variables using concept of limits and continuity . Derivatives of composite and implicit functions, Jacobians
			CO4	To Examine the behavior of higher order partial derivatives using taylors series and the concepts of maximum and minimum of functions of two variables.
			CO5	To Identify the key concepts, theories and mathematical fundamentals to derive mathematical relations involved in evaluation of double integrals and triple integrals and solving Engineering problems.
			CO6	To Evaluate gradient of a scalar field, divergence, curl of a vector field to find the values of line, surface and volume integrals and establish their relation using Green, Gauss and Stokes theorems.

			CO1	Explain the basics of crystals, lattice parameters and their defects.
			CO2	Classify solids into different types by understanding the formation of energy bands in solids. and to Analyze the semiconductor by knowing the hall coefficient hall voltage, hall electric field and charge concentration and study the electric polarization in dielectrics
			CO3	Apply the knowledge of basic laws of electricity and magnetism to understand the concept of electromagnetic waves propagation and solve problems related to various fields
			CO4	Classify the properties of materials and Choose the materials for various applications in different disciplines
			CO5	Recall the basic concepts of optics, study the working of optical fibres and their applications
3	BS202PH	PHYSICS	CO6	Define the basic concepts of emission and absorption and study the different types of lasers and their applications.
			CO1	Elaborate themselves in designing basic electric circuits
			CO2	Judge suitable test to determine total power in three phase circuits
			CO3	Apply suitable test to determine the performance of AC machines
			CO4	Examine the performance characteristics of DC machines
			CO5	Illustrate the requirements for electric machines for industrial purpose
4	ES301EE	BASIC ELECTRICAL ENGINEERING	CO6	Find awareness about various electrical installation rules to be followed while working with electrical equipment
			CO1	Recall terms & conventions of engineering design and justify its place in society
			CO2	Visualise the aspects of engineering design
			CO3	Construct & apply engineering graphics standards
			CO4	Use computer-aided geometric design to model Projection diagrams
			CO5	Create working drawings
8	ES353CE	ENGINEERING GRAPHICS	CO6	Support engineering communication in constructive criticism

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2022-23 SEM-I
GROUP-B (CSE & EEE)

S No	Course Code	Course Title	CO No.	Course Outcome
1	MC802CE	ENVIRORMENTAL SCIENCE	CO1	Adapt Environmental ethics and verbally discuss environmental issues to attain sustainable development.
			CO2	List out common and adverse human impacts on biotic communities, soil, water, and air quality and suggest sustainable strategies to mitigate these impacts
			CO3	Identify various levels, values and threats of biodiversity and bio-geographical classification of India.
			CO4	Elaborate social and environmental issues to prevent future damage of the environment.
			CO5	Understand the importance of Environmental legislation policies.
			CO6	Categorize the types of environmental pollution and the various treatment technologies for the diminution of environmental pollutants and contaminants.
2	MC803PY	ESSENCE OF INDIAN TRADITION KNOWLEDGE	CO1	To outline the history of civilization in Indian context since pre-Vedic times
			CO2	To outline the various schools of Indian Philosophy
			CO3	To demonstrate the diversity in Indian Thought , Languages , regional culture , dress, living style etc.
			CO4	To Identify the various religious and social reform movements which took place in the past few centuries
			CO5	To classify the wealth of Indian Fine Arts and the diversity associated with it over the length and breadth of the country
			CO6	To List the various subjects which flourished in ancient system of education and the progression thereof to modern India.

3	BS201MT	MATHEMATICS-I	CO1	To Test for the convergence and divergence of infinite series using the comparison test, Ratio test, Cauchy's n'th root test, Leibnitz's test, and also analyzing the nature of series.
			CO2	To Explain the concepts of derivatives using mean value theorems and their generalization (Taylor's and Meclaurin's series.). Concepts of curvature, evolutes, involutes, envolpes of family cf curves.
			CO3	To Find Partial derivatives of functions of two variables using concept of limits and continuity . Derivatives of composite and implicit functions, Jacobians
			CO4	To Examine the behavior of higher order partial derivatives using taylors series and the concepts of maximum and minimum of functions of two variables.
			CO5	To Identify the key concepts, theories and mathematical fundamentals to derive mathematical relations involved in evaluation of double integrals and triple integrals and solving Engineering problems.
			CO6	To Evaluate gradient of a scalar field, divergence, curl of a vector field to find the values of line, surface and volume integrals and establish their relation using Green, Gauss and Stokes theorems.
4	BS204CH	CHEMISTRY	CO1	Apply concept of electrode potential in identifying feasibility of electrochemical reaction; illustrate electro analytical techniques and working of batteries.
			CO2	Identify the mechanism of corrosion of materials on basis of electrochemical approach and devise corrosion control methods.
			CO3	Estimate the physical & chemical parameters of quality of water and explain the process of water treatment.
			CO4	Explain the influence of chemical structure on properties of materials and their choice in engineering applications.
			CO5	Classify chemical fuels and grade them through qualitative analysis.
			CO6	Relate the concept of green chemistry to modify engineering processes and materials.
5	ES302CS	PROGRAMMING FOR PROBLEM SOLVING	CO1	Choose appropriate data type for implementing programs in C Language
			CO2	Design and implement modular program involving input output operations, decision making and looping constructs
			CO3	Implement search and sort operation on arrays and modularize the code with functions so that they can be reused.
			CO4	Apply the concept of pointers for implementing programs on dynamic memory management and string handling
			CO5	Design and implement programs to store data in structures and files
			CO6	Create, Read and Write to and from simple text and binary files

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2022**-2**3 **SEM-I**
GROUP-B (CIVIL)

Course Code	Course Title	CO No.	Course Outcome
MC802CE	ENVIRORMENTAL SCIENCE	CO 1	Adapt Environmental ethics and verbally discuss environmental issues to attain sustainable development.
		CO 2	List out common and adverse human impacts on biotic communities, soil, water, and air quality and suggest sustainable strategies to mitigate these impacts
		CO 3	Identify various levels, values and threats of biodiversity and bio-geographical classification of India.
		CO 4	Elaborate social and environmental issues to prevent future damage of the environment.
		CO 5	Understand the importance of Environmental legislation policies.
		CO 6	Categorize the types of environmental pollution and the various treatment technologies for the diminution of environmental pollutants and contaminants.
MC803PY	ESSENCE OF INDIAN TRADITION KNOWLEDGE	CO 1	To outline the history of civilization in Indian context since pre-Vedic times
		CO 2	To outline the various schools of Indian Philosophy
		CO 3	To demonstrate the diversity in Indian Thought , Languages , regional culture , dress, living style etc.
		CO 4	To Identify the various religious and social reform movements which took place in the past few centuries
		CO 5	To classify the wealth of Indian Fine Arts and the diversity associated with it over the length and breadth of the country

		CO 6	To List the various subjects which flourished in ancient system of education and the progression thereof to modern India.
BS201MT	MATHEMATICS-I	CO 1	To Test for the convergence and divergence of infinite series using the comparison test, Ratio test, Cauchy's n'th root test, Leibnitz's test, and also analyzing the nature of series.
		CO 2	To Explain the concepts of derivatives using mean value theorems and their generalization (Taylor's and Meclaurin's series.). Concepts of curvature, evolutes, involutes, envolpes of family cf curves.
		CO 3	To Find Partial derivatives of functions of two variables using concept of limits and continuity . Derivatives of composite and implicit functions, Jacobians
		CO 4	To Examine the behavior of higher order partial derivatives using taylors series and the concepts of maximum and minimum of functions of two variables.
		CO 5	To Identify the key concepts, theories and mathematical fundamentals to derive mathematical relations involved in evaluation of double integrals and triple integrals and solving Engineering problems.
		CO 6	To Evaluate gradient of a scalar field, divergence, curl of a vector field to find the values of line, surface and volume integrals and establish their relation using Green, Gauss and Stokes theorems.
BS204CH	CHEMISTRY	CO 1	Estimate the physical & chemical parameters of quality of water and explain the process of water treatment
		CO 2	Identify the mechanism of corrosion of materials on basis of electrochemical approach and devise corrosion control methods
		CO 3	Explain the influence of chemical structure on properties of materials and their choice in engineering applications
		CO 4	Understand and apply the knowledge of adhesives and sealants in practical life.
		CO 5	Describe the characteristics of explosions and explosives, and describe the main causes of the destructive power of chemical explosives
		CO 6	Relate the concept of green chemistry to modify engineering processes and materials.
ES302CS	PROGRAMMING FOR PROBLEM SOLVING	CO 1	Choose appropriate data type for implementing programs in C Language
		CO 2	Design and implement modular program involving input output operations, decision making and looping constructs
		CO 3	Implement search and sort operation on arrays and modularize the code with functions so that they can be reused.

		CO 4	Apply the concept of pointers for implementing programs on dynamic memory management and string handling
		CO 5	Design and implement programs to store data in structures and files
		CO 6	Create, Read and Write to and from simple text and binary files