



SRI INDU INSTITUTE OF ENGINEERING AND TECHNOLOGY

An UGC Autonomous Institution , Accredited by NAAC with A+ Grade

Recognized Under 2(f) of UGC Act 1956

Approved by AICTE, Affiliated to JNTU Hyderabad

Sheriguda(Vill), Ibrahimpatnam(Mdl), R. R. Dist – 501510

www.siiet.ac.in

COURSE OUTCOMES (COs)

Course Outcomes (COs) describe what students can able to do after completion of the course.

Program : I B.Tech	Academic Year : 2021-22	Semester : I & II
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S.No	Year/ Sem	Course Code	Course Name	Course Outcomes (After completion of the course student can able to :)
1	I/I	MA101BS	Mathematics - I	CO1: Analyze the solution of the system of linear equations in matrix representation.
				CO2: Find the diagonalization of the matrix.
				CO3: Compare the convergence between two tests for the given sequence.
				CO4: Evaluate Improper integrals using Beta and Gamma functions.
				CO5: Explain the concept of total derivative.
				CO6: Find the Maxima and Minima of functions of two variables and three variables.
2	I/I	CH102BS	Chemistry	CO1: Analyze the type of crystal field splitting in complexes.
				CO2: Develop the water free from hardness using water technology.
				CO3: Solve the problems of E.M.F, Electrode Potential.
				CO4: Recognize which part of alloy acts as Anode.
				CO5: Predict the Configuration of the given compound.
				CO6: Apply the spectral data to find the structure of a compound.
3	I/I	EE103ES	Basic Electrical Engineering	CO1: Known's the knowledge about basic components of electrical and reduction method in network analysis in DC.
				CO2: Gains the knowledge about AC quantities.
				CO3: Gains the knowledge about the energy transfer.
				CO4: Gains the knowledge about use of 3-ph transformers.
				CO5: Analysing the energy conversion systems in electrical.
				CO6: Gains knowledge about basic electrical installation.
4	I/I	ME105ES	Engineering Workshop	CO1: Study and practice on hand operated tools and their uses.



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				<p>CO2: Design and model the prototypes by using carpentry and tin Smithy tools.</p> <p>CO3: Join the metals by using welding and fitting trade</p> <p>CO4: Produce casting using foundry.</p> <p>CO5: Perform various basic house wiring functions.</p> <p>CO6: Bend and design the model using blacksmith trade.</p>
5	I/I	EN105HS	English	<p>CO1: Use English language effectively in spoken and written forms.</p> <p>CO2: Inculcate reading habits & gain effective reading skills and vocabulary.</p> <p>CO3: Develop listening skills.</p> <p>CO4: Comprehend the given text and respond appropriately.</p> <p>CO5: Communicate confidently in various contexts and different cultures.</p> <p>CO6: Acquire basic proficiency in English including L.S.R.W skills.</p>
6	I/I	PH102BS	Engineering Physics	<p>CO1: Explain the fundamental concepts on Quantum behaviour of matter.</p> <p>CO2: Explain the working principle and structure of various semiconductors.</p> <p>CO3: Describe the characteristics of semiconductor photo detectors.</p> <p>CO4: Distinguish the principle of lasers.</p> <p>CO5: Apply the fibre optics principles in various communications.</p> <p>CO6: Analyze the Characteristics of dielectric and magnetic material.</p>
7	I/I	EN107HS	English Language and Communication Skills Lab	<p>CO1: Better understanding of nuances of English language through audio-visual experience and group activities.</p> <p>CO2: Neutralization of accent for intelligibility.</p> <p>CO3: Speaking skills with clarity and confidence which in turn enhance their employability skills.</p>
8	I/I	EE108ES	Basic Electrical Engineering Lab	<p>CO1: Known's the knowledge about basic components of electrical and reduction method in network analysis in DC.</p> <p>CO2: Gains the knowledge about AC quantities.</p> <p>CO3: Gains the knowledge about the energy transfer.</p> <p>CO4: Gains the knowledge about use of 3-ph transformers.</p> <p>CO5: Analysing the energy conversion systems in electrical.</p>



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				CO6: Gains knowledge about basic electrical installation.
9	I/I	PH105BS	Engineering Physics Lab	CO1: Classify the Newton's laws both in Cartesian, cylindrical and spherical coordinates.
				CO2: Distinguish the different types of mechanical and electrical harmonic oscillators.
				CO3: Recognize the fundamentals of transverse waves of strings in one dimension.
				CO4: Recognize the fundamentals of longitudinal waves of strings in one dimension.
				CO5: Demonstrate competency and understanding of the concepts found in Wave Optics on a broad base of knowledge in physics.
				CO6: Define the Basic principle of LASERS and their application as light propagation in fiber optics and optical fibers Properties.
10	I/II	AP202BS	Applied Physics	CO1: Explain the fundamental concepts on Quantum behavior of matter.
				CO2: Explain the working principle and structure of various semiconductors.
				CO3: Describe the characteristics of semiconductor photo detectors.
				CO4: Distinguish the principle of lasers.
				CO5: Apply the fiber optics principles in various communications.
				CO6: Analyze the Characteristics of dielectric and magnetic material.
11	I/II	CS203ES	Programming for Problem Solving	CO1: Recognize various types of operators, data types and understand the definition of algorithm and flowchart.
				CO2: Apply various Branching/Looping statements, structure of c program to solve the given problem.
				CO3: Classify homogeneous derived data types and use them to solve the problems.
				CO4: Distinguish Text files and Binary Files and define the pre-processor directives, write simple c program using File handling functions.
				CO5: Illustrate how structured programming, Recursion works and write programs using recursion to solve problems and memory allocation.
				CO6: Apply Algorithms for searching and sorting techniques.



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12	I/II	ME204ES	Engineering Graphics	CO1: Broad idea in engineering drawing and conventions. Application of geometric and curves drawing in tool design such as helical curve in the design of drill bits.
				CO2: Understanding orthographic projections in sense projections of points, lines, Planes.
				CO3: Developing a clear idea on projections of solids and auxiliary views and sectional views.
				CO4: Acquiring practical knowledge by means of development of surface drawing, and intersection of solids.
				CO5: Thorough knowledge in Isometric views and conversion of isometric views into orthographic views and vice versa also acquiring prerequisite knowledge in CAD commands and package.
13	I/II	ME203ES	Engineering Mechanics	CO1: Determine resultant of forces acting on a body and analyse equilibrium of a body subjected to a system of forces.
				CO2: Describe static equilibrium of particles and rigid bodies both in two dimensions and also in three dimensions.
				CO3: Solve problem of bodies subjected to friction.
				CO4: Find the location of centroid and calculate moment of inertia of given section.
				CO5: Understand kinetics and kinematics of a body undergoing rectilinear, curvilinear, rotatory motion and rigid body motion.
14	I/II	CS206ES	Programming for Problem Solving Lab	CO1: Solve the Problems by using Operators and type casting.
				CO2: Write the programs based on Branching and Looping statements.
				CO3: Illustrate the Problems by using the recursion and Functions.
				CO4: Analyze the programs based on Derived Data type.
				CO5: Develop the programs using Files.
15	I/II	*MC209ES	Environmental Science	CO1: Understand ecological principles.
				CO2: Evaluate environmental regulations.
				CO3: Classify the natural resources.
				CO4: Differentiate Biodiversity and Biotic resources.



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				CO5: Describe environmental pollution control techniques.
				CO6: Gain knowledge on environmental protection Act.


HOD/H&S


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