

I Year –I Semester

COURSE CODE	COURSE NAME	CO	CO STATEMENT
MA1101	Linear Algebra And Ordinary Differential Equations	CO1	Apply the matrix algebra techniques to engineering applications
		CO2	Apply the concepts of eigen values and eigen vectors to free vibration of a two mass systems
		CO3	Apply mean value theorems to real world problems.
		CO4	Solve the first order ordinary differential equations related to various engineering fields.
		CO5	Solve the higher order differential equations and analyze physical situations.
EN1101	English	CO1	Understand the value of Human Conduct for career development through life skills: Ethics & Values and use root words and Prepositions without errors. Gain reading skills for comprehension, specific information, gist, and pleasure through extensive reading
		CO2	Observe the significance of imagery in poetry to use it in real-time contexts and learn to use and misuse of Articles, Prefixes, Suffixes, and Punctuations. Gain reading skills for comprehension, specific information, gist, and pleasure through extensive reading
		CO3	Acquire conversation skills through drama and enhance the correct use of Nouns, Pronouns, Verbs and Concord to write paragraphs effectively. Gain reading skills for comprehension, specific information, gist, and pleasure through extensive reading
		CO4	Develop reading for inspiration, interpretation & innovation and learn to use modifiers, synonyms and antonyms to write essays effectively. Gain reading skills for comprehension, specific information, gist, and pleasure through extensive reading
		CO5	Learn meaningful use of language by avoiding meaningless cliches, bureaucratic euphemisms and academic jargon in order to acquire the skill of summarising. Gain reading skills for comprehension, specific information, gist, and pleasure through extensive reading

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PH1101	Engineering Physics	CO1	Interpret the interaction of optic energy with matter
		CO2	Explain the properties of polarization and Lasers
		CO3	Classify the given dielectric and semiconductor materials
		CO4	Analyze Electromagnetic wave propagation in non-conducting medium
		CO5	Apply the principles of Fiber Optics and nano materials to communication
ES1106	Network Analysis	CO1	Understand the concepts of passive elements, types of sources and various network reduction techniques.
		CO2	Analyze steady state behavior of single phase and three phase AC electrical circuits
		CO3	Solve DC and AC electrical circuits using theorems, mesh and nodal analysis techniques
		CO4	Determine two port network parameters such as Z, Y, ABCD and h parameters for given electrical network
		CO5	Analyze transient and steady state behavior of RL, RC & RLC circuits in time and Frequency domain
ES1102	Engineering Drawing	CO1	Apply the basics of engineering drawing to construct the polygons and curves
		CO2	Draw the orthographic projections of points and lines.
		CO3	Draw the projections of planes in various conditions
		CO4	Draw the projections of regular solids inclined to one of the planes.
		CO5	Imagine the isometric views of orthographic views and vice versa
EN1102	Communicative English Lab-I	CO1	Enhance pronunciation with befitting tone for clarity in a speech to communicate language effectively
		CO2	Participate in short conversations in routine contexts on topics of interest and ask questions and make requests politely
		CO3	Listen for specific information, gist, note-taking, note-making and comprehension and develop convincing and negotiating skills through debates
		CO4	acquire effective strategies for good writing and demonstrate the same in summarizing and reporting
		CO5	Gain knowledge of grammatical structures and vocabulary for day-to-day successful conversations

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PH1103	Engineering Physics Laboratory	CO1	Apply the working principles of laboratory experiments in optics, mechanics, electromagnetic and electronics and perform the experiments using required apparatus
		CO2	Compute the required parameter by suitable formula using experimental values (observed values) in mechanics, optics, electromagnetic and electronic experiments
		CO3	Analyze the experimental results through graphical interpretation
		CO4	Recognize the required precautions to carry out the experiment and handling the apparatus in the laboratory
		CO5	Demonstrate the working principles, procedures and applications
ES1101	Electronics Workshop	CO1	Identify various electronic components, devices and measuring instruments used in electronic circuit design.
		CO2	Test different electronic components, devices and instruments
		CO3	Apply various electronic components devices & EDA, office tools in electronic & communications field
		CO4	Differentiate the method of assembling and disassembling the basic electronic circuits & devices using PCB, EDA tools and other techniques.
		CO5	Illustrate on electronic components instruments & devices using documentation tools ,such as spread sheets, PPT's etc.,
MC1101	Constitution of India	CO1	Impart knowledge on historical background of the constitution making and its importance for building a democratic India
		CO2	Analyze the functioning of three wings of the government ie., executive, legislative and judiciary
		CO3	Explain the value of the fundamental rights and duties for becoming good citizen of India
		CO4	Analyze the decentralization of power between central, state and local self government
		CO5	Apply the knowledge in strengthening of the constitutional institutions like CAG, Election Commission and UPSC for sustaining democracy