Course Outcomes		Bloom's	Knowledge
	Engineering Physics: (KAS 101T/201T)	Cognitive Cotogory	
S. No.	Course Outcome/ Unit	Process	(KC)
After comple	etion of the course, the student will be able to:	Level (BL)	(RC)
1	Apply Finstein's postulates in relativistic mechanics with introduction of classical mechanics	Apply	Conceptual,
1	Apply Emstern's postulates in relativistic meeting with introduction of emstear meeting.	rippiy	Procedural
2	Apply concepts of Maxwell's equations for the propagation of electromagnetic waves	Apply	Conceptual,
2	Appry concepts of Maxwell's equations for the propagation of electromagnetic waves.	Арріу	Procedural
2	Apply concepts of Modern Dhysics in various quantum mechanical phonomenons	Apply	Conceptual,
3	Appry concepts of wodern Physics in various quantum mechanical phenomenons.	Apply	Procedural
4	Apply concepts of wave nature of light to study interference and diffraction.	A	Conceptual,
4		Арргу	Procedural
5	Apply concept of Stimulated Emission of Radiation and Total Internal Reflection to study laser and optical fiber	Annly	Conceptual,
5	communication respectively.	Арріу	Procedural

Course Outcomes Engineering Chemistry: (KAS 102T/202T)		Bloom's Cognitive	Knowledge
S. No.	Course Outcome/ Unit	Process	Category
After comple	etion of the course, the student will be able to:	Level (BL)	(KC)
1	Articulate the theoretical principles of molecular bonding, Structure and Applications of Liquid crystals, Graphite, Fullerenes and Nanomaterials.	Apply	Conceptual, Procedural
2	Apply the fundamental concepts of spectral techniques for molecular structure identification.	Apply	Conceptual, Procedural
3	Apply thermodynamic functions with electrochemical reactions in perspective of corrosion, study phase rule for heterogenous system.	Apply	Conceptual, Procedural
4	Analyze the water and fuel samples by chemical techniques.	Analyze	Conceptual, Procedural
5	Use the fundamental knowledge of polymer and organometallic compounds for industrial applications.	Apply	Conceptual, Procedural

	Course Outcomes	Bloom's	Knowladga
	Engineering Mathematics-I: (KAS 103T)	Cognitive	Catagory
S. No.	Course Outcome/ Unit	Process	(KC)
After comple	etion of the course, the student will be able to:	Level (BL)	(KC)
1	Determine Eigen values, Eigen vectors, diagonal matrix and apply the concept of rank to solve linear simultaneous	Apply	Conceptual,
1	equations.	Арріу	Procedural
2	Apply the concept of limit, continuity & differentiability to study Rolle's theorem, Lagrange's Mean Value	Apply	Conceptual,
2	Theorem, Cauchy's mean value theorem, Leibnitz Theorem and curve tracing.	Арріу	Procedural
2	Determine extrema, series expansion, error approximation of functions and Jacobians using the concept of partial	Apply	Conceptual,
5	differentiation.	Арріу	Procedural
4	Colculate area, volume, contro of mass and contro of gravity using multiple integral concepts & tools	Apply	Conceptual,
4	Calculate area, volume, centre of mass and centre of gravity using multiple integral concepts & tools.	Арріу	Procedural
5	A where the survey of Wester Coloring to determine directional device time. Here and endows interval	A	Conceptual,
5	Apply the concept of vector Calculus to determine directional derivative, line, surface and volume integrals.	Арріу	Procedural

	Course Outcomes	Bloom's	Knowladge
	Engineering Mathematics-II: (KAS 203T)	Cognitive	Catagory
S. No.	Course Outcome/ Unit	Process	(KC)
After comple	etion of the course, the student will be able to:	Level (BL)	(KC)
1	Apply the concept of constant coefficient to solve LDE of nth order and to solve LDE with variable coefficient	Annly	Conceptual,
1	of 2nd order	Арргу	Procedural
2	Amply the concert of Date and Commo functions, for evoluting surface areas and volumes	Apply	Conceptual,
2	Apply the concept of Beta and Gamma functions for evaluating surface areas and volumes		Procedural
2		Apply	Conceptual,
5	Apply the concept of convergence of sequence and series to expand the function in Fourier series.	Арргу	Procedural
4	Apply the concept of Limit, Continuity and differentiability for analyticity, Harmonic function and to find image	Annly	Conceptual,
4	of function using conformal transformation	Арргу	Procedural
5	Apply the concept of Cauchy Integral theorem, Cauchy Integral formula, singularity and calculus of residue to	Annly	Conceptual,
5	evaluate contour contour integrations	Арріу	Procedural

	Course Outcomes	Bloom's	Knowledge
	Basic Electrical Engineering: (KEE 101T/201T)	Cognitive	Category
S. No.	Course Outcome/ Unit	Process	(KC)
After comple	etion of the course, the student will be able to:	Level (BL)	(RC)
1	Understand the concepts of electric circuit solutions with DC supply using various network theorems	Understand	Conceptual
2	Apply the concepts of electrical circuits with AC supply in single and three phase system	Apply	Conceptual, Procedural
3	Analyze the equivalent circuit and performance of single phase AC transformer	Analyze	Conceptual, Procedural
4	Illustrate the working principle of induction motors, synchronous machines and DC machines	Analyze	Conceptual, Procedural
5	Describe the components of electrical system installations	Understand	Factual, Procedural
	Course Outcomes	Bloom's	Knowledge
	Emerging Domain in Electronics Engineering (KEC 101T/ 201T)	Cognitive	Category
S. No.	Course Outcome/ Unit	Process	(KC)
After comple	etion of the course, the student will be able to:	Level (BL)	(inc)
1	Remember and Understand the concept of PN Junction Diodes, BJT, FET and MOSFET, ICs and OPAMP, numbers systems Boolean Functions and logic gates, components of IoT, principles of sensors and fundamentals of Communication system.	Remember, Understand	Factual, Conceptual
2	 Apply the concept of Number system and Boolean Functions to minimize them using K-Map. Analyze and implement Boolean functions using Basic and universal gates. 	Apply, Analyze	Conceptual, Procedural
3	i. Apply the concept of Diodes and Transistors to study rectifiers, clippers clampers, regulators and amplifiers.ii. Analyze the circuits based on diodes, BJTs and FETs.	Apply, Analyze	Conceptual
3	 i. Apply the concept of Diodes and Transistors to study rectifiers, clippers clampers, regulators and amplifiers. ii. Analyze the circuits based on diodes, BJTs and FETs. i. Apply the concept of OPAMP to study the operation of amplifiers, summers, differentiators, integrators etc. ii. Analyze the circuits based on OPAMPs. 	Apply, Analyze Apply, Analyze	Conceptual Conceptual

	Course Outcomes	Bloom's	Knowledge
	Programming for Problem Solving: (KCS 101T/ 201T)	Cognitive	Category
S. No.	Course Outcome/ Unit	Process	(KC)
After comple	tion of the course, the student will be able to:	Level (BL)	(KC)
1	Understand algorithms and flow chart for the different types of problems	Understand	Conceptual
2	Translate the algorithms to programs & execution (in C language).	Apply	Conceptual, Procedural
3	Implement conditional branching, iteration, and recursion	Apply	Conceptual, Procedural
4	Decompose a problem into functions and synthesize a complete program using divide and conquer approach.	Analyze	Conceptual, Procedural
5	Use arrays, pointers and structures to develop algorithms and programs.	Apply	Conceptual, Procedural

Course Outcomes Fundamental of Mechanical Engineering and Mechatronics (KME 101T/ 201T)		Bloom's Cognitive	Knowledge
S. No.	Course Outcome	Process	(KC)
After comple	etion of the course, the student will be able to:	Level (BL)	(KC)
1	Apply the basic concept of stress and strain, factor of safety and beams for safe design.	Apply	Conceptual
2	Understand the basic component and working of internal combustion engines; And apply concepts of heat engine, heat pump and refrigerator system for calculation of COP.	Apply	Conceptual
3	Apply the basic concept of fluid mechanics and understand the working of turbines and pumps.	Apply	Conceptual
4	Understand the working principle of different measuring instrument with the knowledge of accuracy, error, calibration, limit, fit, tolerance and control system.	Understand	Conceptual
5	Understand concept of mechatronics with their advantages, scope and Industrial application, different types of mechanical actuation system; types of hydraulic and pneumatic systems.	Understand	Factual

	Course Outcomes Bloom's		Knowledge	
	Engineering Physics Lab: (KAS 151P/ 251P)	Cognitive	Category	
S. No.	Course Outcome/ Unit	Process	(KC)	
After comple	etion of the course, the student will be able to:	Level (BL)	(RC)	
1	Apply the concept of Interference to determine the wavelength of light in Newton's ring experiment	Apply	Conceptual,	
1	Apply the concept of interference to determine the wavelength of right in Newton's ring experiment.	Appiy	Procedural	
2	Apply the concept of diffraction to study the spectrum for determining the wavelength of mercury light	Apply	Conceptual,	
2	Apply the concept of diffraction to study the spectrum for determining the wavelength of mercury light.	Appry the concept of diffraction to study the spectrum for determining the wavelength of mercury right.	Apply	Procedural
2	Apply the concept of Hall's effect to find the physical parameters such as Hall's coefficient, carrier concentration,	Apply	Conceptual,	
5	mobility of charge carriers etc.	Apply	Procedural	
4	Apply the concept of black body radiation to verify from Stefan's law.	Apply	Conceptual,	
4		Арргу	Procedural	
F	Apply the concept of optical rotation to find the specific rotation of an optically active substance	Apply	Conceptual,	
5	Appry the concept of optical rotation to find the specific rotation of all optically active substance.	дрру	Procedural	

Course Outcomes		Bloom's	Knowladga
	Engineering Chemistry Lab: (KAS 152P/252P)	Engineering Chemistry Lab: (KAS 152P/252P) Cognitive	
S. No.	Course Outcome/ Unit	Process	(KC)
After comple	tion of the course, the student will be able to:	Level (BL)	(KC)
1	Use different analytical instruments for chemical analysis.	Apply	Conceptual, Procedural
2	Analyze molecular /system properties such as surface tension, viscosity and conductance of solution, using viscometer and stalagmometer.	Analyze	Conceptual, Procedural
3	Apply titrimetric analysis for estimation of the hardness of water, chloride content and iron content.	Apply	Conceptual, Procedural
4	Synthesize polymers used in daily life utensils.	Analyze	Conceptual, Procedural
5	Estimation of sample concentration with the help of instruments.	Analyze	Conceptual, Procedural

Course Outcomes Basic Electrical Engineering Lab: (KEE 151P/251P)		Bloom's Cognitive	Knowledge
S. No.	Course Outcome/ Unit	Process	(KC)
After comple	tion of the course, the student will be able to:	Level (BL)	. ,
1	Conduct experiments illustrating the application of KVL/KCL and network theorems to DC electrical circuits.	Apply	Conceptual
2	Demonstrate the behavior of AC circuits connected to single phase AC supply and measure power in single phase as well as three phase electrical circuits.	Apply	Conceptual
3	Perform experiment illustrating BH curve of magnetic materials.	Analyze	Conceptual
4	Calculate efficiency of a single phase transformer and DC machine.	Apply	Conceptual
5	Perform experiments on speed measurement and reversal of direction of three phase induction motor and Identify the type of DC and AC machines based on their construction.	Analyze	Conceptual

	Course Outcomes	Bloom's	Vnowladaa
	Course 2 - Electronics Engineering Lab (KEC 151P/ 251P)	Cognitive	Catagory
S. No.	Course Outcome/ Unit	Process	(KC)
After comple	etion of the course, the student will be able to:	Level (BL)	(KC)
1	To remember and understand basic Lab Equipment's and Components like CRO, Multimeter, and Function	Remember,	Factual
1	Generator, Power supply- Active, Passive Components and Bread Board.	Understand	Factual
2	To understand Characteristics of DN Junction diada Zener diada and DIT	Understand	Factual,
2	To understand Characteristics of FTV junction diode, Zener diode and BJT.	Understand	Conceptual
2	To understand and apply concert of Operational Amplifier for implementing Adder and Subtractor	Understand,	Factual,
3	To understand and appry concept of Operational Ampliner for implementing Adder and Subtractor.	Apply	Conceptual
4	To understand Truth Table of Various Logia Cate	Understand	Factual,
4	To understand Truth Table of Various Logic Gale.	Understand	Conceptual
5	Identification of various types of Drinted Circuit Beards (DCP) and soldering Techniques and transformer winding	Apply,	Conceptual,
3	identification of various types of Finned Circuit Boards (PCB) and soldering rechniques and transformer winding	Analyze	Procedural

Course Outcomes Programming for Problem Solving Lab: (KCS 151P/ 251P)		Bloom's Cognitive	Knowledge
S. No.	Course Outcome/ Unit	Process	Category
After comple	etion of the course, the student will be able to:	Level (BL)	(KC)
1	Decign algorithm and flowshart for arithmetic and logical relation based problems	Apply	Conceptual,
1	Design algorithm and nowchart for arithmetic and logical relation-based problems.		Procedural
2	Convert the algorithms and flow chart to programs for the execution (in C language)	Apply	Conceptual,
2	Convert the algorithms and now chart to programs for the execution (in C language).		Procedural
2	Find the nettorne based on conditional branching, iteration, and recovering	Annly	Conceptual,
5	Find the patterns based on conditional branching, iteration, and recursion.	Арріу	Procedural
4	Simplify the solution of Complex problem by using the concept of function in dividing and Conguer enpressed	Apolycic	Conceptual,
	Simplify the solution of Complex problem by using the concept of function in dividing and Conquer approach.	Allalysis	Procedural
5	Implement the concept of storing of data and records in the memory using arrays, pointers and structures	Apply	Conceptual,
5	implement the concept of storing of data and records in the memory using arrays, pointers and structures.	Арріу	Procedural

	Course Outcomes	Bloom's	Knowladge
	English Language Lab (KAS-154P/ 254P)	Cognitive	
S. No.	Course Outcome/ Unit	Process	(KC)
After comple	etion of the course, the student will be able to:	Level (BL)	(RC)
1	Understand the basic objective of the course by being acquainted with specific dimensions of communication	Understand	Conceptual,
	skills i.e. Reading, Writing, Listening, Thinking and Speaking.	Understand	Procedural
2	Create substantial base by the formation of strong professional vocabulary for its application at different platforms	Create	Conceptual,
	and through numerous modes as Comprehension, reading, writing and speaking etc.	Cleate	Procedural
3	Apply it at their work place for writing purposes such as Presentation/official drafting/administrative	Apply	Conceptual,
	communication and use it for document/project/report/research paper writing.	Арріу	Procedural
4	Evaluate the correct and error-free writing by being well-versed in rules of English grammar and cultivate relevant	Evolueto	Conceptual,
	technical style of communication & presentation at their work place and also for academic uses.	Evaluate	Procedural
	Apply it for practical and oral presentation purposes by being honed up in presentation skills and voice-dynamics.	Apply	Concentual
5	They will apply techniques for developing interpersonal communication skills and positive attitude leading to	Apply,	Drogodural
	their professional competence.	Create	Fiocedural

	Course Outcomes Bloom's Engineering Graphics and Design Lab (KCE 151P/ 251P) Cognitive		Knowledge
S. No.	Course Outcome/ Unit	Process	Category
After comple	ction of the course, the student will be able to:	Level (BL)	(KC)
1	Understand the visual aspects of engineering design	Understand	Conceptual,
1	Chaerstand the visual aspects of engineering design.	Olideistalid	Procedural
2	Apply modern angineering tools necessary for angineering practice	Apply Conceptual, Procedural	
2	Appry modern engineering tools necessary for engineering practice.		Procedural
3	Analyza Isometria viewa	Analyza	Conceptual,
	Anaryze isometric views.	Anaryze	Procedural
4	Understand an air coming around is a standards and offective communication through aroundies	Understand	Conceptual,
	Understand engineering graphics standards and effective communication through graphics.	Proced	Procedural
5	Apply computer sided geometric design solid modelling and greating working drawings	Craata	Conceptual,
	Appry computer-aided geometric design, sond moderning and creating working drawings.	Create	Procedural

	Course Outcomes Mechanical Worshop Lab: (KWS 151P/ 251P)		Knowledge
S. No.	Course Outcome/ Unit	Process	(KC)
After comple	etion of the course, the student will be able to:	Level (BL)	(RC)
1	Understand various engineering materials, tools, machines and measuring equipments.	Understand	Procedural
2	Apply the knowledge of lathe and CNC machine for performing related operations.	Apply	Procedural
3	Apply the knowledge of manufacturing in fitting and carpentry shop for performing related operations.	Apply	Procedural
4	Apply the knowledge of welding, moulding, casting and gas cutting for performing related operations.	Apply	Procedural
5	Apply the knowledge of 3D printing manufacturing technique	Apply	Procedural

Course Outcomes Soft Skill I - (KNC-101)		Bloom's Cognitive	Knowledge
S. No.	Course Outcome / Unit	Process	(KC)
After compl	etion of the course, the student will be able to:	Level (BL)	(KC)
1	Apply the correct usage of grammar and the fundamental inputs of communication skills in making speech	Apply	Factual,
	delivery, individual conference and group communication.	Apply	Conceptual
2	Evaluate the process and impact of persuasion, negotiation and interpersonal communication to obtain	Evolueto	Conceptual,
	professional excellence at the workplace.	Evaluate	Procedural

	Course Outcomes Soft Skill I - (KNC-201)	Bloom's Cognitive	Knowledge
S. No.	Course Outcome / Unit	Process	(KC)
After comple	etion of the course, the student will be able to:	Level (BL)	(KC)
1	Apply the effective LSRW skills for enhanced Conversational and Social Skills in order to excel in the professional domain.	Apply	Factual, Conceptual, Procedural
2	Evaluate the dynamics of Motivational Skills to align the required Workplace Skills in tandem with Creativity and Critical thinking for being competent in Soft Skills.	Evaluate	Factual, Conceptual, Procedural

Course Outcomes Artificial Intelligence for Engineering - (KMC-101/KMC-201)		Bloom's Cognitive	Knowledge
S. No.	Course Outcome / Unit	Process	(KC)
After comple	tion of the course, the student will be able to:	Level (BL)	(110)
1	Understand the evolution and various approaches of AI	Understand	Factual
2	Understand data storage, processing, visualization, and its use in regression, Clustering etc.	Understand	Factual
3	Understand natural language processing and chatbots	Understand	Factual
4	Understand the concepts of neural networks	Understand	Factual
5	Understand the concepts of face, object, speech recognition and robots	Understand	Factual

	Course Outcomes	Bloom's	Knowledge
	Emerging Technology for Engineering - (KMC-102)	Cognitive	Category
S. No.	Course Outcome / Unit	Process	(KC)
After comple	etion of the course, the student will be able to:	Level (BL)	(KC)
1	Understand the concents of internet of things amont sitiss and industrial internet of thing	Remember,	nember, Factual,
1	Understand the concepts of internet of things, smart cities and industrial internet of thing	Understand	Conceptual
2	Understand the concents of cloud computing	Remember,	Factual,
2	Understand the concepts of cloud computing	Understand	Conceptual
2	Understand the concents of block shein, emeteorymenoics, smort contracts	Remember,	Concentual
3	Understand the concepts of block chain, cryptocurrencies, smart contracts	Understand	Conceptual
4	Understand design minoinles tools trands in 2 D minting and drangs	Understand,	Concentual
	Understand design principles, tools, trends in 5 D printing and drones	Apply	Conceptual
5	Understand augmented reality (AR), virtual reality (VR), 5G technology, brain computer interface and human	Apply,	Factual,
	brain	Analyze	Conceptual