

4	KAS152/252	CO-3	Measure alkalinity, hardness and chloride content of water.	K2	3	2				2	2		2			2		
		CO-4	Determine the iron content and available chlorine in given sample.	K3	2						2							
		CO-5	Know the fundamental concepts of the preparation of phenol formaldehyde & urea formaldehyde resin	K2	2	2				2	2							2
		KAS152/252 (Engg. Chemistry Lab)					2.20	2.00			2.00	2.00		2.00			2.00	
5	KAS103	CO-1	Apply the concept of matrices for solving the linear simultaneous equations.	K3	3	3	3	3									2	
		CO-2	Apply the concept of limit, continuity and differentiability in the study of Rolle's, Lagrange's, Cauchy Mean Value theorem and Leibnitz theorems .	K3	3	3	3	3										2
		CO-3	Apply the concept of partial differentiation in finding extreme value, expansion of functions and Jacobians.	K3	3	3	3	3										2
		CO-4	Apply multiple integrals for finding area, volume, centre of mass and centre of gravity.	K3	3	3	3	3										2
		CO-5	Applying the concept of vector differentiation and integration to determine line, surface and volume integrals.	K3	3	3	3	3										2
		KAS103 (Engg. Maths I)					3.00	3.00	3.00	3.00								
6	KAS203	CO-1	Apply the concept of differentiation for solving differential equations.	K3	3	3	3	3									2	
		CO-2	Apply the concept of definite integral for evaluating surface areas and volumes.	K3	3	3	3	3									2	
		CO-3	Application of identifying the convergence of sequence and series and expansion of Fourier series	K3	3	3	3	3										2
		CO-4	Application of complex functions to determine analytic functions	K3	3	3	3	3										2
		CO-5	Apply the complex functions for finding Taylor's series, Laurent's series and definite integrals.	K3	3	3	3	3										2
		KAS203 (Engg. Maths II)					3.00	3.00	3.00	3.00								
7	KAS104/204	CO-1	Be acquainted with specific dimensions of communication skills.	K2	2		3						2	2				
		CO-2	Create substantial base by the formation of strong professional vocabulary.	K3	2													2
		CO-3	Apply communication skills at their work place for writing purposes.	K3		2	3											
		CO-4	Cultivate relevant technical style of communication & presentation.	K3				2										
		CO-5	Apply techniques for developing interpersonal communication skills and positive attitude.	K3		2	3	2						3	3	3		
		KAS104/204 (Professional English)					2.00	2.00	3.00	2.00					2.50	2.50	3.00	2.00
8	KAS154/254	CO-1	Make use of conversational skills for effective group talks and interviews.	K3									2	2			2	
		CO-2	Develop communication and presentation skills for technical papers/project reports/proposals in seminars/conferences/workshops/theme presentations.	K2										2			2	
		CO-3	Build conversational skills for public/individual speaking /conferencing/role play/JAM /arguementation.	K2										2			2	
		CO-4	Make use of comprehension skills based on reading and listening practical's on model audio.	K3										2			2	
		CO-5	Execution social skills for a given work station.	K3										2			2	

13	KWS101/201	CO-3	Perform manufacturing operations on components in fitting and carpentry shop.	K3	2					2		2	2			2	
		CO-4	Perform operations in welding, moulding and casting	K3	3					2	2	2	2				2
		CO-5	Fabricate a job by 3D printing manufacturing technique.	K3	2				2	2		2	3				2
		KWS101/201 (Workshop Practices)				2.40				2.00	2.00	2.00	2.00	2.40			2.00
14	KCE101/201	CO-1	Use scales and draw projections of objects.	K2	3										2		
		CO-2	Explain views of solids and their sectional surfaces.	K2	3	2									2		
		CO-3	Analyze and draw isometric projections of objects.	K3	3										2		
		CO-4	Demonstrate orthographic representation of perspective views using modern tools.	K2	3		2		3					2	2		
		CO-5	Apply AutoCAD software for creation of engineering drawing and models.	K3	3		2		3					2	2		2
		KCE101/201 (Engg. Graphics and Design)				3.00	2.00	2.00		3.00				2.00	2.00		2.00