

No.	Course No.	Course Title	Weekly hours		Credits	Pre-requisite	Learning Type
			Theoretical	Practical			
10	0704244	Strength of Materials	3	0	3	0704241	face-to-face
		The concept of stress and strain, Hawk's law, modulus of elasticity, stiffness and Poisson's ratio, determination of axial force, shear strength. Torsion in circular beams, columns and transmission shafts, Pure Bending in beams, stress distribution, the relationship between loads, shear strength and deflection in beams, section kinatmics, stress and strain transformations, normal and shear stress distribution in different cross sections and shear flow, Mohre circle, stresses in composite sections, spherical and cylindrical pressure vessels and elastic buckling of columns					