

No.	Course No.	Course Title	Weekly hours		Credits	Pre-requisite	Learning Type
			Theoretical	Practical			
31	0704481	Highway Engineering	3	0	3	0704381	face-to-face
			<p>The importance of roads and transportation, engineering design basics, road classification, characteristics affecting road design (vehicle, driver, and pedestrian). Traffic characteristics affecting road design (traffic volume, speed, density), road lanes (horizontal curves and vertical curves). Components, the design of the visual distance on the horizontal and vertical curves, the design based on the capacity of the roads (the design of highways and roads with two lanes and two directions), the design requirements for road safety, water drainage on the roads. Horizontal planning (tangent, circular curve, transition curve, transverse slopes, implementation of transverse slope in horizontal curves), vertical planning (viewing distances, longitudinal inclinations, vertical curve)</p>				