

1	Railway, Harbours, Tunnelling & Airports (18CV645)	1.	Acquires capability of choosing alignment and also design geometric aspects of railway system, runway and taxiway.
		2.	Suggest and estimate the material quantity required for laying a railway track and also will be able to determine the hauling capacity of a locomotive.
		3.	Develop layout plan of airport, harbour, dock and will be able relate the gained knowledge to identify required type of visual and/or navigational aids for the same.
		4.	Apply the knowledge gained to conduct surveying, understand the tunnelling activities.

CO-PO Matrices Course name and Code: 18C312 Railway, Harbours, Tunnelling & Airports

CO/PO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12	PSO1	PSO2	PSO3
18C312.1	3	2	1	2	1	-	-	-	-	-	-	-	2	2	1
18C312.2	3	1	1	2	-	-	-	-	-	-	-	-	2	3	2
18C312.3	3	1	-	2	1	-	-	-	-	-	-	-	2	2	1
18C312.4	3	-	1	2	1	-	-	-	-	-	-	-	2	3	2
18C312	3	1.33	1	2	1	-	-	-	-	-	-	-	2	2.5	1.5