

Content

Course Code	Course Name	Semester	Theory	Practice	Lab	Credit	ECTS
GEM118	Diesel Engines I	3	2	0	1	2,5	3

Prerequisites	
Admission Requirements	

Language of Instruction	Turkish
Course Type	Compulsory
Course Level	Associate Degree
Objective	To teach engine diagrams,fuel injection systems, scavenge systems,turbo charged and trunk piston engines
Content	1.Four and Two stroke diesel engines 2.P-V and timing diagrams 3.Scavenge air systems and supercharger 4.Turbocharger 5.High,medium and low speed engine
References	Educational videos,slides,lecture

Theory Topics

Week	Weekly Contents
1	Four and two stroke Diesel engines
2	P-V and timing diagrams
3	Scavenge air systems and supercharger
4	Turbocharger
5	High,medium and low speed engine
6	trunk piston engine
7	Piston Engines
8	Cross-head engines
9	Valve mechanisms
10	Bearings
11	Fuel injection systems
12	Engine Governor
13	Fuel
14	Combustion Chamber