

DRONACHARYA

College of Engineering

KHENTAWAS, FARRUKHNAGAR, GURGAON, HR

Department: Mechanical Engineering (VI ME-II)

Academic Session: 2017-18 (Jan-June 2018)

Lesson Plan for the Semester started w.e.f 08.01.2018

Subject with code: Automobile Engineering (ME-302-F)

Name of Faculty with designation : Poshan Sahu (Asst. Prof.)

S. NO.	Month	Date & Day	Sem-Class	Unit	Topic/Chapter covered	Academic activity	Test / assignment
1	January	08.01.2018 Monday	VI-ME-I	1-A	Need of the particular Automobile Engineering subject, Teaching Methodology of Dronacharya College of Engineering.	.....	Assignment of 02 Ques. given
2	January	11.01.2018 Thursday	VI-ME-I	1-A	Classification, Components, Requirements of Automobile body: Vehicle frame – separate body	.....	Assignment of 02 Ques. given
3	January	12.01.2018 Friday	VI-ME-I	1-A	Trucks, Buses, Bus body & commercial Vehicle body types : Front engine near drive & Front engine front drive	.....	Assignment of 02 Ques. given
4	January	15.01.2018 Monday	VI-ME-I	1-A	Wheel drive vehicle; Safety considerations, Safety features of latest vehicle : Future trends in automobile	.....	Assignment of 02 Ques. given
5	January	18.01.2018 Thursday	VI-ME-I	1-B	CLUTCHES: Requirements of clutches – Principle of friction clutch – wet types & dry Types	.....	Assignment of 02 Ques. given
6	January	19.01.2018 Friday	VI-ME-I	1-B	Cone clutch, Single – plate clutch, Diaphragm spring clutch	.....	Assignment of 02 Ques. given
7	January	25.01.2018 Thursday	VI-ME-I	1-B	Multi – plate clutch, Centrifugal, & Electromagnetic clutch.	Assignment of 02 Ques. given

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8	January	29.01.2018 Monday	VI-ME-I	1-B	Over running clutch, Clutch linkages.	Assignment of 02 Ques. given
9	February	01.02.2018 Thursday	VI-ME-I	2-A	Requirements of transmission system General Arrangement of Power transmission system,	.....	Assignment of 02 Ques. given
10	February	02.02.2018 Friday	VI-ME-I	2-A	Different types of the gear boxes sliding mesh. Constant mesh.	.....	Assignment of 02 Ques. given
11	February	05.02.2018 Monday	VI-ME-I	2-A	Synchromesh gear boxes; Epicyclic gear box Freewheel Unit	.....	Assignment of 02 Ques. given
12	February	08.02.2018 Thursday	VI-ME-I	2-A	Overdrive unit Principal of Overdrive, Advantages of overdrive: Transaxle. Transfer cases.	.....	Assignment of 02 Ques. given
13	February	09.02.2018 Friday	VI-ME-I	2-B	and drive axles : Effect of driving thrust and torque reactions, Hotchkiss drives. Torque tube	.....	Assignment of 02 Ques. given
14	February	19.02.2018 Monday	VI-ME-I	2-B	Universal joints, Slip joint: constant velocity universal joints; Front wheel drive.	.....	Assignment of 02 Ques. given
15	February	22.02.2018 Thursday	VI-ME-I	2-B	bal function. Construction & operation of differential; Rear axles, types of load coming on rear	.....	Assignment of 02 Ques. given
16	February	23.02.2018 Friday	VI-ME-I	2-B	Full floating three quarter floating and Semi floating rear axles.	.....	Assignment of 02 Ques. given
17	February	26.02.2018 Monday	VI-ME-I	3-A	Steering System: Front wheel geometry & Wheel alignment viz. Castor, Camber, King pin inclination	.....	Assignment of 02 Ques. given
18	March	05.03.2018 Monday	VI-ME-I	3-A	Toe – in / Toe – out; Condition for true rolling motions of Wheels during steering	Assignment of 02 Ques. given

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19	March	08.03.2018 Thursday	VI-ME-I	3-A	gear boxes; Steering linkages and layout. Power steering – Rack & Pinion Power steering gear	Assignment of 02 Ques. given
20	March	09.03.2018 Friday	VI-ME-I	3-B	STEM: Need of Suspension system. Types of suspension factors influencing ride comforts; S	.....	Assignment of 02 Ques. given
21	March	12.03.2018 Monday	VI-ME-I	3-B	and characteristics of leaf spring. Coil springs and torsion bar spring used for suspension; Ind	.....	Assignment of 02 Ques. given
22	March	15.03.2018 Thursday	VI-ME-I	3-B	Compare the McPherson strut suspension with other system; Pneumatic suspension; Closed loop suspension SYSTEM	.....	Assignment of 02 Ques. given
23	March	16.03.2018 Friday	VI-ME-I	3-B	Shock Absorbers; Purpose, Part & Operation of Liquid filled. Gas filled shock absorbers.	.....	Assignment of 02 Ques. given
24	March	26.03.2018 Monday	VI-ME-I	4-A	kes, Tyres & Wheels: Classification of brakes: Principle and construction details of Drum brak	.....	Assignment of 02 Ques. given
25	March	29.03.2018 Thursday	VI-ME-I	4-A	actuating systems; Mechanical. Hydraulic, Pneumatic brakes; Factors affecting brake perform	.....	Assignment of 02 Ques. given
26	APRIL	02.04.2018 Monday	VI-ME-I	4-A	ver & Power Assisted brakes; Types of wheels, Types of tyre & their constructional details wh	.....	Assignment of 02 Ques. given
27	APRIL	05.04.2018 Thursday	VI-ME-I	4-A	Wheel balancing: Tyre rotation; Types of Tyre wear & there causes.	.....	Assignment of 02 Ques. given
28	APRIL	06.04.2018 Friday	VI-ME-I	4-B	system & automotive electrical: Sources of atmospheric pollution from the automobile, Emissi	.....	Assignment of 02 Ques. given
29	APRIL	09.04.2018 Monday	VI-ME-I	4-B	eration of Positive Crank case Ventilation (PVC) system Evaporative Emission Control, Heated	Assignment of 02 Ques. given

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30	APRIL	12.04.2018 Thursday	VI-ME-I	4-B	Exhaust Gas Recirculation (EGR) System, Air Injection system and Catalytic Converters. Purpose construction & operation of lead acid battery.	Assignment of 02 Ques. given
31	APRIL	13.04.2018 Friday	VI-ME-I	4-B	Capacity rating and Maintenance of batteries, Purpose & operation of charging, starting & Vehicle lighting system.	.....	Assignment of 02 Ques. given
32	APRIL	23.04.2018 Monday	VI-ME-I		REVISION	.....	Assignment of 02 Ques. given