

DRONACHARYA

College of Engineering

KHENTAWAS, FARRUKHNAGAR, GURGAON, HR

Department: Mechanical Engineering

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	09.01.2018 Tuesday	VI-ME-I	1-A	Classification, Components, Requirements of Automobile body: Vehicle frame – separate body & commercial Vehicle body types : Front engine near drive & Front engine	.....	Assignment of 02 Ques. given
3	January	10.01.2018 Wednesday	VI-ME-I	1-A	Vehicle; Safety considerations, Safety features of latest vehicle : Future trends	.....	Assignment of 02 Ques. given
4	January	15.01.2018 Monday	VI-ME-I	1-A	Transmission: Requirements of clutches – Principle of friction clutch – wet types & dry types	.....	Assignment of 02 Ques. given
5	January	16.01.2018 Tuesday	VI-ME-I	1-B	Clutch: Requirements of clutches – Principle of friction clutch – wet types & dry types	.....	Assignment of 02 Ques. given
6	January	17.01.2018 Wednesday	VI-ME-I	1-B	Cone clutch, Single – plate clutch, Diaphragm spring clutch	Assignment of 02 Ques. given

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7	January	23.01.2018 Tuesday	VI-ME-I	1-B	Multi – plate clutch, Centrifugal, & Electromagnetic clutch.	Assignment of 02 Ques. given
8	January	24.01.2018 Wednesday	VI-ME-I	1-B	Over running clutch, Clutch linkages.	.....	Assignment of 02 Ques. given
9	January	29.01.2018 Monday	VI-ME-I	2-A	Components of transmission system General Arrangement of Power transmission	.....	Assignment of 02 Ques. given
10	January	30.01.2018 Tuesday	VI-ME-I	2-A	Different types of the gear boxes sliding mesh. Constant mesh.	.....	Assignment of 02 Ques. given
11	January	31.01.2018 Wednesday	VI-ME-I	2-A	Synchromesh gear boxes; Epicyclic gear box Freewheel Unit	.....	Assignment of 02 Ques. given
12	February	05.02.2018 Monday	VI-ME-I	2-A	Freewheel unit Principal of Overdrive, Advantages of overdrive: Transaxle. Transfer	.....	Assignment of 02 Ques. given
13	February	06.02.2018 Tuesday	VI-ME-I	2-B	Front and rear axles : Effect of driving thrust and torque reactions, Hotchkiss drives. Torque	.....	Assignment of 02 Ques. given
14	February	07.02.2018 Wednesday	VI-ME-I	2-B	Universal joints, Slip joint: constant velocity universal joints; Front wheel drive	.....	Assignment of 02 Ques. given
15	February	19.02.2018 Monday	VI-ME-I	2-B	Construction & operation of differential; Rear axles, types of load coming	.....	Assignment of 02 Ques. given
16	February	20.02.2018 Tuesday	VI-ME-I	2-B	Full floating three quarter floating and Semi floating rear axles.	Assignment of 02 Ques. given

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17	February	21.02.2018 Wednesday	VI-ME-I	3-A	System: Front wheel geometry & Wheel alignment viz. Castor, Camber, King pin	Assignment of 02 Ques. given
18	February	26.02.2018 Monday	VI-ME-I	3-A	Steering geometry – Toe – in / Toe – out; Condition for true rolling motions of Wheels during steering	.....	Assignment of 02 Ques. given
19	February	27.02.2018 Tuesday	VI-ME-I	3-A	Steering systems; Steering linkages and layout. Power steering – Rack & Pinion Power steering	.....	Assignment of 02 Ques. given
20	February	28.02.2018 Wednesday	VI-ME-I	3-B	Need of Suspension system. Types of suspension factors influencing ride comfort	.....	Assignment of 02 Ques. given
21	March	05.03.2018 Monday	VI-ME-I	3-B	Characteristics of leaf spring. Coil springs and torsion bar spring used for suspension	.....	Assignment of 02 Ques. given
22	March	06.03.2018 Tuesday	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	07.03.2018 Wednesday	VI-ME-I	3-B	Shock Absorbers; Purpose, Part & Operation of Liquid filled. Gas filled shock absorbers.	.....	Assignment of 02 Ques. given
24	March	12.03.2018 Monday	VI-ME-I	4-A	Brakes & Wheels: Classification of brakes: Principle and construction details of Drum	.....	Assignment of 02 Ques. given
25	March	13.03.2018 Tuesday	VI-ME-I	4-A	Braking systems; Mechanical. Hydraulic, Pneumatic brakes; Factors affecting braking	Assignment of 02 Ques. given

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26	March	14.03.2018 Wednesday	VI-ME-I	4-A	Power Assisted brakes; Types of wheels, Types of tyre & their constructional details.	Assignment of 02 Ques. given
27	March	26.03.2018 Monday	VI-ME-I	4-A	Wheel balancing; Tyre rotation; Types of Tyre wear & their causes.	.....	Assignment of 02 Ques. given
28	March	27.03.2018 Tuesday	VI-ME-I	4-B	Automotive electrical: Sources of atmospheric pollution from the automobile.	.....	Assignment of 02 Ques. given
29	March	28.03.2018 Wednesday	VI-ME-I	4-B	Positive Crank case Ventilation (PVC) system Evaporative Emission Control system.	.....	Assignment of 02 Ques. given
30	APRIL	02.04.2018 Monday	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	03.04.2018 Tuesday	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	04.04.2018 Wednesday	VI-ME-I		REVISION	.....	Assignment of 02 Ques. given