

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: Mechanical Machine Design-II (ME-304-F)

Name of Faculty with designation : Mr. Manish Kumar Mishra-- Assistant Professor

S.No.	Month	Date & Day	Sem-Class	Section /Unit	Topic/Chapter covered	Academic activity	Test / assignment
1	JANUARY	10/01/2018 Wednesday	VI-ME-I	A	Need of the Machine Design, Subject and Teaching methodology of Dronacharya college of Engineering. Syllabus contents of the subject were given to the Students.	.....	Assignment of 02 Ques. given
2	JANUARY	11/01/2018 Thursday	VI-ME-I	A	Ergonomic and value engineering considerations in design, Role of processing in design,	.....	Assignment of 02 Ques. given
3	JANUARY	17/01/2018 Wednesday	VI-ME-I	A	Design considerations for casting, forging and machining.	.....	Assignment of 02 Ques. given
4	JANUARY	18/01/2018 Thursday	VI-ME-I	A	Different types of fluctuating/ variable stresses, Fatigue strength considering stress concentration factor, surface factor, size factor, reliability factor etc	.....	Assignment of 02 Ques. given
5	JANUARY	24/01/2018 Wednesday	VI-ME-I	A	Fatigue design for finite and infinite life against combined variable stresses using Goodman and Soderberg's criterion	.....	Assignment of 02 Ques. given
6	JANUARY	25/01/2018 Thursday	VI-ME-I	A	Fatigue design using Miner's equation, Problems	.....	Assignment of 02 Ques. given
7	FEBRUARY	01/02/2018 Thursday	VI-ME-I	B	Detailed design of shafts for static and dynamic loading ,	.....	Assignment of 02 Ques. given
8	FEBRUARY	07/02/2018 Wednesday	VI-ME-I	B	Rigidity and deflection consideration	.....	Assignment of 02 Ques. given
9	FEBRUARY	08/02/2018 Thursday	VI-ME-I	B	Types of Springs, Design for helical springs against tension and their uses, compression and fluctuating loads	Assignment of 02 Ques. given

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10	FEBRUARY	21/02/2018 Wednesday	VI-ME-I	B	Design of leaf springs, Surging phenomenon in springs, Design Problem	Assignment of 02 Ques. given
11	FEBRUARY	22/02/2018 Thursday	VI-ME-I	C	Design of pivot and collar bearing ,	.....	Assignment of 02 Ques. given
12	FEBRUARY	28/02/2018 Wednesday	VI-ME-I	C	Selection of ball and roller bearing based on static and dynamic load carrying capacity using load-life relationship	.....	Assignment of 02 Ques. given
13	MARCH	07/03/2018 Wednesday	VI-ME-I	C	Selection of Bearings from manufacturer's catalogue, types of lubrication – Boundary, mixed and hydrodynamic lubrication	.....	Assignment of 02 Ques. given
14	MARCH	08/03/2018 Thursday	VI-ME-I	C	Design of journal bearings using Raimondi and Boyd's Charts, Lubricants and their properties	.....	Assignment of 02 Ques. given
15	MARCH	14/03/2018 Wednesday	VI-ME-I	C	Selection of suitable lubricants, Design Problems	.....	Assignment of 02 Ques. given
16	MARCH	15/03/2018 Thursday	VI-ME-I	D	Classification, Selection of gears, Terminology of gears	.....	Assignment of 02 Ques. given
17	MARCH	28/03/2018 Wednesday	VI-ME-I	D	Force analysis, Selection of material for gears, Beam & wear strength of gear tooth	.....	Assignment of 02 Ques. given
18	APRIL	04/04/2018 Wednesday	VI-ME-I	D	Form or Lewis factor for gear tooth, Dynamic load on gear teeth –Barth equation and Buckingham equation and their comparison	.....	Assignment of 02 Ques. given
19	APRIL	05/04/2018 Thursday	VI-ME-I	D	Design of spur, helical, bevel & worm gear including the Consideration for maximum power transmitting capacity	.....	Assignment of 02 Ques. given
20	APRIL	11/04/2018 Wednesday	VI-ME-I	D	Gear Lubrication, Design Problems	.....	Assignment of 02 Ques. given
21	APRIL	12/04/2018 Thursday	VI-ME-I	NA	Discussion on the whole syllabus	.....	.....
22	APRIL	25/04/2018 Wednesday	VI-ME-I	NA	Previous Year paper discussion	.....	.....