



**LESSON PLAN-(SUMMER-2023)**  
**SWAMI VIVEKANANDA SCHOOL OF ENGG & TECH, BBSR**

<b>Discipline- MECHANICAL</b>	<b>Semester-6TH</b>	Name of teaching faculty- Er. Subhashree Jena
<b>Subject- AE</b>	<b>No class allotted/ per week -4</b>	<b>SEM From date-13.2.2023 to 23.05.2023</b> <b>No of weeks- 15</b>
<b>Week</b>	<b>Class day</b>	<b>Theory Topics</b>
WEEK 1	13.02.2023	Define Automobile, Classify Auto vehicles
	14.02.2023	Detail Layout of automobile chassis, Manufacturers specification of auto engines
	15.02.2023	State the constructional placement features of engine
	17.02.2023	Classification of engine basing on working principal, fuel used, position& arrangement of cylinder test
WEEK 2	20.02.2023	Classification of engine basing on working principal, fuel used, position& arrangement of cylinder
	21.02.2023	Single plate clutch with detail
	22.02.2023	Multiplate clutch with detail
	24.02.2023	Need of gear box with type
WEEK 3	27.02.2023	Detail of 4 speed sliding mesh gear box
	28.02.2023	Detail of 4 speed constant mesh gear box
	2.03.2023	Detail of 4 speed synchro mesh gear box
	3.03.2023	Detail of synchroniser
WEEK 4	6.03.2023	Constructional factor of propeller shaft with need of slip joint& universal joint
	9.03.2023	Explain the need of differential & types of differential
	10.03.2023	Classify type of rear axle
	20.03.2023	Constructional feature of rear axle
WEEK 5	21.03.2023	Need and types of Braking system
	23.03.2023	Detail of Mechanical brake
	27.03.2023	Detail of Hydraulic brake
	28.03.2023	Detail of Air brake
WEEK 6	29.03.2023	Detail of wheel cyl & Master cyl
	31. 03.2023	Detail of Tandom master cyl
	3.04.2023	Detail of wiring diagram
	5.04.2023	Detail of Horn circuit & lighting circuit
WEEK 7	6.04.2023	Brake booster
	11.04.2023	Materials used in braking lines and its specifications
	12.04.2023	Function & details of front axle& stub axle
	13.04.2023	Steering geometry&ackerman principle of steering
WEEK 8	17.04.2023	Caster, camber & kingpin inclination
	19.04.2023	Explain steering linkage arrangement
	20.04.2023	Detail working of power steering
	24.04.2023	Advantage of power steering over conventional steering

WEEK 9	25. 04.2023	ASSIGNMENT
	26.04.2023	Axle and its use
	27.04.2023	Type of rear axle and front axle
	28.04.2023	Explain independent suspension system
WEEK 10	1.05.2023	Explain Telescopic shock absorber
	2.05.2023	Detail of tyre specification
	3.05.2023	Cause and remedies of tyre wear
	4.05.2023	Necessity of engine cooling
WEEK 11	8.05.2023	Defect of cooling and their remedies
	10.05.2023	Function of lubrication
	11.05.2023	Lubrication system of IC engine
WEEK 12	12.05.2023	Working principle of oil pump & pressure release valve
	15.05.2023	Working principle of oil filter
	16.05.2023	Cut-out circuit
	17.05.2023	Flasher circuit
WEEK 13	18.05.2023	Working of generator
	19.05.2023	Working of starter motor
	22.05.2023	Carburation & Air-fuel ratio
	23.05.2023	Solex Carburator
HOD SIGN. <span style="margin-left: 200px;">DEAN (Academic) SIGN.</span> <span style="margin-left: 200px;">PRINCIPAL SIGN.</span>		