

STAFF TEACHING PLAN (2020-21)

IVth Year B.E. (VII Sem) Mechanical

Subject :ELECTIVE- I: AUTOMOBILE ENGINEERING(Theory) BEME702T3

Subject Teacher: Dr. S.R. Ikhar

Sr No	Unit	Topic	Expected Date	Topic Description
1	I	101		Introduction of Automobile
2	I	102		Chassis, Frame
3	I	103		Prime movers
4	I	104		Types of Prime movers
5	I	105		Hybrid Car & Electrical car
6	I	106		Fuel supply systems
7	I	107		Lubrication systems
8	I	108		Cooling systems
9	II	201		Clutch: Necessity
10	II	202		Types of clutches
11	II	203		fluid clutch
12	II	204		Gear box: necessity
13	II	205		Types of Gear box
14	II	206		Gear selector mechanism
15	II	207		Lubrication and control, Torque converter
16	II	208		Semiautomatic & automatic transmission
17	III	301		Transmission system
18	III	302		Hotchkiss drive, torque tube drive
19	III	303		Differential
20	III	304		Rear and front axles
21	III	305		Brakes: Necessity
22	III	306		Types of break
23	III	307		Comparison of break
24	III	308		Brake adjustment
25	IV	401		Steering systems
26	IV	402		Types of steering
27	IV	403		Steering geometry, wheel alignment
28	IV	404		Power steering
29	IV	405		Suspension system
30	IV	406		Types of suspension
31	IV	407		Telescopic shock absorber
32	IV	408		Linked rubber, plastic, hydro & pneumatic suspension system
33	V	501		Electrical systems: Requirement
34	V	502		Battery: construction, maintenance, testing and charging
35	V	503		Cutout, lighting circuit, horn, side indicator, wiper and panel board instruments
36	V	504		Types of ignition system
37	V	505		Air-conditioning
38	V	506		Wheels and Tyres desirable properties
39	V	507		types of tyres, materials
40	V	508		Tyre life, tyre and wheel balancing
41	VI	601		Body considerations requirements of body, material

42	VI	602		Safety considerations, crash worthiness
43	VI	603		ABS
44	VI	604		Electronic power steering
45	VI	605		Active suspension
46	VI	606		Collision avoidance
47	VI	607		Intelligent lighting, navigational aids
48	VI	608		Electronic brake distribution system

(Dr. S.R. Ikhari)

Asso. Professor
Deptt. Mech Engg.
KDKCE