

MECHANICAL ENGINEERING (SEMESTER - 5TH)

| S.N O. | MONTH | WEEK | DATE | CONTENT (THEORY) | REMARKS |
|--------|--------|------|-------------|---|---------|
| 1 | AUGUST | 3rd | 12,13,17 | Unit I Introduction Types of automobiles, different layouts of vehicle, chassis, frame and body, Spark Ignition (SI) & Compression Ignition (CI) engines. | |
| | | 4th | 19,20,22,24 | | |
| | | 5th | 27,29,31 | | |
| 2 | SEPT. | 1st | 2,3,5,7 | Unit II Automotive Engine Parts Cylinder – arrangements and their relatives merits, Liners, Piston, connecting rod, crankshaft, valves, valve actuating mechanisms. Unit III Transmission Systems Clutch-types and construction of single plate clutch, propeller shaft, slip joints, universal joints, Differential, and rear axle. | |
| | | 2nd | 9,10,12 | | |
| | | 3rd | 16,17,19,21 | | |
| | | 4th | 23,24,26,28 | | |
| | | 5th | 30 | | |
| 3 | OCT. | 1st | 1,3,5 | Unit IV Brakes and Suspension Systems Requirements, leaf spring, coil spring. Types of brakes, mechanical and hydraulic braking systems, brake shoe arrangements, Disk brakes, drum brakes, Antilock –Braking systems, purpose and operation of antilock-braking system. | |
| | | 2nd | 7,8,10 | | |
| | | 3rd | 14,15,19 | | |
| | | 4th | 21,22,24,26 | | |
| | | 5th | 28,29 | | |
| 4 | NOV. | 1st | 1 | Unit V Safety and Comfort Systems Passive Safety Systems – Airbags, Seatbelts, Crumple Zones, Active Safety Systems – Automatic Driver Assist Systems (ADAS), Antilock Braking System, Reverse parking system, Anti-collision system, Traction control system, Comfort Systems – Cruise control system, Heating, ventilation and Air-conditioning system (HVAC), Autonomous Driving Cars – Level of Driving Automation.(Basic definitions and functions only) | |
| | | 2nd | 4,5,7 | | |
| | | 3rd | 11,12,14,16 | | |
| | | 4th | 18,19,21,23 | | |
| | | 5th | 25,26,28,30 | | |
| 5 | DEC. | 1st | 2 | | |

(Sr. Lect. Mech. Engg.)

HOD (ME)