



DEPARTMENT OF MECHANICAL ENGINEERING

VISION

"To incorporate technical & professional skills in Mechanical Engineers to full-fill industrial & social needs".

MISSION

- To educate, guide, and mentor the students for academic excellence.
- To develop technical skills and discipline among the students as per the requirement of

Subject Name: Automobile Engineering (315372)

Date :-

Assignment No :- 1

Course Outcome: 503.1

Topic Name :- Introduction to Automobiles

1. **Classify the Automobiles**
2. **State the vehicle layouts with diagrams.**
3. **States loads acting on the frames**
4. **Electric vehicles components and their functions**
5. **Hybrid vehicles components and their functions**

Date of Submission:-

Assign By :- Mr. Vishal Sagvekar



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Assignment No :- 2

Course Outcome: 503.2

Topic Name :- Automobile Transmission System

1. **Explain construction and working of single plate clutch.**
2. **Explain construction and working of constant mesh gear box**
3. **Explain construction and working of torque converter**
4. **Draw diagram of propeller shaft with proper label & state function of universal joint and slip joint**
5. **Draw diagram of Differential and Final drive with proper label and state function of both**

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Assignment No :- 3

Course Outcome: 503.2

Topic Name :- Automobile Control Systems

1. **State requirements of braking**
2. **Explain construction and working of any one type of brake**
3. **Construction and working of master cylinder**
4. **Define castor, camber, toe-in & toe-out with proper diagram**
5. **Construction and working of hydraulic power steering**

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Assignment No :- 4

Course Outcome: 503.4

Topic Name :- Automobile Suspension, Wheels and Tyres

- 1. Describe construction of McPherson suspension system with neat sketch**
- 2. Construction and working of Telescopic shock absorber**
- 3. Differentiate between tube and tubeless tyre**
- 4. Explain procedure of wheel balancing and wheel alignment**
- 5. State tyre designation with example and states factors affecting tyre life**

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Date :-

Assignment No :- 5

Course Outcome: 503.5

Topic Name :- Introduction to Auto Electrical Systems

- 1. Explain with a neat sketch starting system.**
- 2. Explain working principle and construction of Lead Acid battery with a neat sketch.**
- 3. State the types and function of sensors in automobiles.**
- 4. Explain any one type of ignition system.**
- 5. Explain alternator components and their functions**

Date of Submission:-

Assign By :- Mr. Vishal Sagvekar