



DEPARTMENT OF AUTOMOBILE ENGINEERING

VISION

“To develop technically skilled engineers with value-based education in automotive industry to face upcoming chances”.

MISSION

- Understanding the need for regional automotive industries.
- Provide hands on skills for life long professional development.
- To create responsible students with sense of ethics & discipline.

Subject Name: TTW(22559)

Assignment No 1

CO NO:CO504.1

Questions.

1. Describe constructional details of single cradle frame with neat sketch.
2. List materials used for two wheeler frame.
3. State types of two wheeler frames.
4. Sketch Single Cradle Frame.
5. Describe constructional details of Double Cradle Frame with neat sketch.
6. Select frame material for KTM bike and justify its use.

Course coordinator: - Mr. Mayuresh Naikawade

Date of Submission:



DEPARTMENT OF AUTOMOBILE ENGINEERING

VISION

“To develop technically skilled engineers with value-based education in automotive industry to face upcoming chances”.

MISSION

- Understanding the need for regional automotive industries.
- Provide hands on skills for life long professional development.
- To create responsible students with sense of ethics & discipline.

Subject Name: TTW(22559)

Assignment No 2

CO NO:CO504.2

Questions.

1. State any two types of mufflers with their application.
2. Describe procedure to adjust valve clearance of four stroke engine of two wheeler with necessary sketches.
3. Describe push rod overhead valve operating mechanism with neat sketch.
4. State the function of Air Cleaner & Carburettor.
5. Explain with sketch working of electronic petrol injection system. State its advantages over carburetted fuel system.
6. State the lubrication system used for two wheeler four-stroke engine and explain working with neat sketch.
7. Describe the diagnosis procedure of exhaust gas analysis.
8. Explain with relevant justification that use of catalytic convertor reduce the tail pipe emissions.

Course coordinator: - Mr. Mayuresh Naikawade

Date of Submission:



DEPARTMENT OF AUTOMOBILE ENGINEERING

VISION

“To develop technically skilled engineers with value-based education in automotive industry to face upcoming chances”.

MISSION

- Understanding the need for regional automotive industries.
- Provide hands on skills for life long professional development.
- To create responsible students with sense of ethics & discipline.

Subject Name: TTW(22559)

Assignment No 3

CO NO:CO504.3

Questions.

1. Draw transmission system layout of two wheeler.
2. Describe mono shock regular swing arm suspension system with neat sketch.
3. State any two function of Suspension System of two wheeler.
4. Define Caster angle and Trail.
5. Explain working of foot operated gear shifting mechanism of two wheelers.
6. Describe the working of constant mesh gear box.
7. Explain the effect of steering geometry on vehicle performance with sketches.

Course coordinator: - Mr. Mayuresh Naikawade

Date of Submission:



DEPARTMENT OF AUTOMOBILE ENGINEERING

VISION

“To develop technically skilled engineers with value-based education in automotive industry to face upcoming chances”.

MISSION

- Understanding the need for regional automotive industries.
- Provide hands on skills for life long professional development.
- To create responsible students with sense of ethics & discipline.

Subject Name: TTW(22559)

Assignment No 4

CO NO:CO504.4

Questions.

1. Describe working of capacitive discharge ignition (CDI) system.
2. Describe working of microprocessor controlled ignition system with neat sketch.
3. Distinguish between kick start and button start arrangement on the basis of effort, battery, convenience and maintenance.
4. Describe the working of two wheeler charging system with neat sketch.
5. “Indicator lamps play an important role in vehicle safety” justify this statement with suitable illustrations.

Course coordinator: - Mr. Mayuresh Naikawade

Date of Submission:



DEPARTMENT OF AUTOMOBILE ENGINEERING

VISION

“To develop technically skilled engineers with value-based education in automotive industry to face upcoming chances”.

MISSION

- Understanding the need for regional automotive industries.
- Provide hands on skills for life long professional development.
- To create responsible students with sense of ethics & discipline.

Subject Name: TTW(22559)

Assignment No 5

CO NO:CO504.5

Questions.

1. State the importance of I) Carsh bar II) Saree guard III) Jacket IV) Helmet.
2. “Ergonomics plays an important role in passenger comfort” Justify this statement with illustrations.
3. “Driving habits are closely associated with driver’s safety” Justify this statement with illustrations.
4. Describe effects of frontal area exposed in motor cycle on performance of vehicle.
5. Describe the Ergonomic aspects of Handle bar position.
6. Ergonomics plays an important role in passenger comfort. Justify this statement with illustrations.
7. Explain significance of aesthetic aspect for side panels of scooter.
8. Explain the Aesthetic Aspects of : Ground Clearance, Mud Guard Shape and Position.

Course coordinator: - Mr. Mayuresh Naikawade

Date of Submission: