



## 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: Two and three wheeler technologies (314344)**

**Date :-**

**Assignment No :- 1**

**Course Outcome: 405.1**

**Topic Name :- Frame and Chassis**

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- 1. State Functions of frame***
  - 2. Explain any one single cradle or double cradle frame***
  - 3. State material used for frame.***
  - 4. List types of chassis and explain any one of them***
  - 5. Draw the layout of two wheeler vehicle***
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**Date of Submission:-**

**Assign By :- Mr. Vishal Sagvekar**



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Subject Name: Two and three wheeler technologies (314344)

Date :-

Assignment No :- 2

Course Outcome: 405.2

Topic Name :- Engine, Fuel and Lubrication System

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- 1. List engine selection criteria**
  - 2. List the valve operating mechanism and explain any one**
  - 3. Explain working principle of carburetor**
  - 4. Explain lubrication system**
  - 5. What is Air filter and list its type**
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Subject Name: Two and three wheeler technologies (314344)

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Assignment No :- 3

Course Outcome: 405.3

Topic Name :- Transmission, steering, suspension and braking systems

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- 1. Define steering geometry and effects .***
  - 2. Classify suspension systems and Explain any one.***
  - 3. Explain drum brake or disc brake with proper diagram.***
  - 4. Explain CVT.***
  - 5. Explain Constant mesh gear box with diagram.***
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**Subject Name: Two and three wheeler technologies (314344)**

**Date :-**

**Assignment No :- 4**

**Course Outcome: 405.4**

**Topic Name :- Electrical systems**

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- 1. Explain any one ignition system with proper diagram***
  - 2. State concept of twin spark ignition system***
  - 3. What are starting system explain any one.***
  - 4. Explain components and working of charging system***
  - 5. State application of head lamp, head lamp and tail lamp reflectors, turn signal, LED lights***
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Subject Name: Two and three wheeler technologies (314344)

Date :-

Assignment No :- 5

Course Outcome: 405.5

Topic Name :- Aerodynamics, Aesthetics, Ergonomics and Safety Aspects of vehicles

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***1. Explain the effect of following on aerodynamics of motorcycle.***

***i) Shape of head lamp ii) Tail lamp arrangement***

***2. Explain the effect of following on aesthetics of motorcycle.***

***i) Ground clearance ii) Shape and position of mudguard***

***3. Explain safety aspects of various drive gear used with two wheeler***

***4. State good driving habits to avoid accidents.***

***5. Explain the importance of ergonomic aspect of seat arrangement for rider and pillion rider.***

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