



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: ASB (22442)

Assignment No 1

Course Outcome: – C405.1

Questions.

1. What is the necessity of suspension system in the vehicle
2. Give details classification of suspension systems
3. Explain construction and working of telescopic suspension system
4. Explain construction and working of air suspension with its advantages
5. Explain with diagram leaf spring suspension system
6. Comparison between independent and reject suspension system
7. Explain different types of air bags/ air springs used in air suspension with diagram

Course coordinator: - Mr. Rahul Gondhali

Date of Submission:



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Subject Name: ASB (22442)

Assignment No 2

Course Outcome: – C405.1

Questions.

1. Need and classification of brakes
2. Construction and working of drum brakes and disk brakes
3. Construction and working of hydraulic and air brakes
4. Properties of brake fluid
5. Construction and working of anti-locking braking system
6. Explain parking brakes with diagram

Course coordinator: - Mr. Rahul Gondhali

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Subject Name: ASB (22442)

Assignment No 3

Course Outcome: – C405.1

Questions.

1. What is the necessity of suspension system in the vehicle
2. Give details classification of suspension systems
3. Explain construction and working of telescopic suspension system
4. Explain construction and working of air suspension with its advantages
5. Explain with diagram leaf spring suspension system
6. Comparison between independent and rigid suspension system

Course coordinator: - Mr. Rahul Gondhali

Date of Submission:



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Subject Name: ASB (22442)

Assignment No 4

Course Outcome: – C405.1

Questions.

1. What are the functions and types of auto body
2. Explain anti corrosive treatment and painting given to automobile body
3. Explain interior trim upholstery glass and door service body insulation exterior trim
4. Explain airbag seat belt and central locking
5. Explain collapsible steering production control reverse parking
6. Explain different material used in automobile body

Course coordinator: - Mr. Rahul Gondhali

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Subject Name: ASB (22442)

Assignment No 5

Course Outcome: – C405.1

Questions.

1. Explain fundamentals of refrigeration and air conditioning and vapour compression cycle
2. Explain construction and working of car rating maintenance and air conditioning system.
3. Explain type of refrigerants
4. Explain desirable properties of refrigerant
5. Explain human comfort conditions
6. What is temperature control system and humidity control

Course coordinator: - Mr. Rahul Gondhali

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Subject Name: ASB (22442)

Assignment No 6

Course Outcome: – C405.1

Questions.

- 1) What are the resistance faced by the vehicle
- 2) Explain air resistance rolling resistance and gradient resistance
- 3) Define following terms
 - (a) Traction
 - (b) traction efforts
 - (c) acceleration
 - (d) pitching
 - (e) bouncing
 - (f) rolling
 - (g) sway
 - (h) yaw
- 4) Explain stability of vehicle on turns and slope

Course coordinator: - Mr. Rahul Gondhali

Date of Submission: