



Civil Engineering

Vision: “To impart quality technical education beneficial to industry and the society in the field of Civil Engineering.”.

Mission:

- To arrange academic and technical expertise.
- To improve the practical knowledge of the student as per current scenario of industry.
- To make the students socially and ethically responsible.

Course Title :- Railway & Bridge Engg.

Date :-

Course Outcome:- CO 403a

Chapter Name:- Basics Of Railway Engg

Assignment No:- 1

- 1) State role of transportation in development of India.
- 2) State causes of creep & effects of creep of rail.
- 3) Define functions of rail fixtures & fastenings.
- 4) What are sleepers in railway engineering & give different functions of sleepers?
- 5) Define permanent way & sleeper density.
- 6) What are the various zones of Indian Railway?
- 7) Write merits & demerits of roadway & railway.
- 8) List the types of rail gauge.
- 9) Describe in brief prevention of creep of rail.
- 10) Define functions of rail fixture & fastening.
- 11) Explain causes of creep of rail with a neat sketch

Date of Submission :-

Assign By :- Trupti Deshmukh



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Course Outcome:- CO 403b

Chapter Name:- Track Geometrics, construction & maintenance

Assignment No:- 2

1. Define cant deficiency & negative cant.
2. Draw a neat sketch of standard cross-section of double B.G.track in cutting.
3. State steps involved in the construction of railway track.
4. Discuss wayside station, junction station & terminal station.
5. Explain coning of wheels with neat sketch.
6. Describe the functions of tools required for railway track maintenance.
7. Draw a neat line sketch of track junction.
8. Define Gradient ? State the types of gradient.
9. Define point & crossing.
10. State the necessity of railway track maintenance.
11. List out the components of left hand turnouts with show in diagram

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Date :-

Course Outcome:- CO 403c

Chapter Name:- Overview of bridge engg

Assignment No:- 3

- 1) Enlist factors affecting selection of site of a bridge.
 - 2) Draw a neat sketch of a plan of bridge showing all its components.
 - 3) Define –i)Economic span ii) Afflux iii) Waterway iv)Freeboard v)scour
 - 4) Explain in brief expansion bearing for steel girder bridge.
 - 5) Differentiate between permanent bridge & temporary bridge.
 - 6) Classification bridge based on i)span of bridge ii)purpose of bridge
 - 7) Explain the functions i)pier ii)Abutment iii)Bearing iv)Wing wall.
 - 8) Write advantage & disadvantages of prestressed bridge.
 - 9) Define abutment & wing wall with types &function
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Course Title :- Railway & Bridge Engg.

Date :-

Course Outcome:- CO 403d

Chapter Name:- Construction & Maintenance Of Bridge

Assignment No:- 4

- 1) Define culvert.Types of culvert.
- 2) Enlist different types of temporary bridges.
- 3) State necessity of bridge maintenance.
- 4) State the difference between flying & floating bridge.
- 5) Explain routine maintenance & special maintenance.
- 6) Enlist types of movable bridge.
- 7) Explain pre Monsoon inspection of bridge.

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Course Title :- Railway & Bridge Engg.

Date :-

Course Outcome:- CO 403e

Chapter Name:- Construction & Maintenance Of Tunnel

Assignment No:- 5

- 1) State the purpose of providing tunnel lining.
 - 2) State the factors affecting types of lining.
 - 3) Describe in brief with neat sketch construction of tunnel with needle beam method.
 - 4) Describe fore-poling method of tunneling in soft rock.
 - 5) Describe the survey work required for proposed tunnel construction work.
 - 6) Explain the tunnel ventilation Nature & Mechanical method.
 - 7) Enlist types of tunnel as per shape.
 - 8) Define shaft. State the purpose of providing shaft in tunnel.
 - 9) Explain in brief transferring of center line inside the tunnel with a neat sketch.
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