



## Civil Engineering

### Vision:

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

### Mission:

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

Assignment No :- 01

Subject : MRS (22602)

Topic Name :- Basics of Maintenance and repairs

CO602.e

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- 1. Explain the necessity of maintenance and repairs of the civil structure.**
  - 2. Explain the factors that influence maintenance.**
  - 3. Explain the concept of retrofitting, restrengthening, rehabilitation and restoration.**
  - 4. Explain types of maintenance**
  - 5. Explain the pre and post monsoon maintenance.**

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**Date of Submission :-**

**Assign By :- Mrs. Nasreen Ansari**



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Assignment No :- 2

Subject : MRS (22602)

Topic Name :- Causes and Detection of Damage

CO602.a

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- 1. Explain the causes of damages of a structure.**
  - 2. Explain the systematic approach of damage detection.**
  - 3. State the non- destructive test use to detect the damage.**
  - 4. Explain types of inspection of damage**
  - 5. Explain with procedure rebound hammer test.**
  - 6. Explain the ultrasonic pulse velocity test.**
  - 7. Explain the chemical tests conducted on damaged structures.**
  - 8. Explain the half-cell potentiometer test.**
- 

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**Assignment No :- 03**

**Subject : MRS (22602)**

**Topic Name :- Material used for Maintenance and repair. CO602.c**

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- 1. State the factors affecting the selection of material for repair.**
  - 2. Explain the suitable materials for anti- corrosion, adhesives and mortar repairs.**
  - 3. Explain the relevant materials for waterproofing and joint sealants for repairing of structure.**
  - 4. Explain grout, properties of grout and types of grout.**
  - 5. What is the necessity for adding concrete chemicals.**
  - 6. Explain surface coating materials for concrete protection.**
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**Assignment No :- 04**

**Subject : MRS (22602)**

**Topic Name :- :- Maintenance And Repair Method for Masonary CO602.d**

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- 1. Explain the causes of cracks.**
  - 2. Explain repair methods for minor and medium cracks.**
  - 3. Explain the shotcreting. Advantages and disadvantages.**
  - 4. Explain the repairing methods of major cracks.**
  - 5. Explain the damping effects and its repair techniques.**
  - 6. Explain the various methods of improving the bearing capacity of foundation.**
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**Assignment No :- 05**

**Subject : MRS (22602)**

**Topic Name :- Maintenance And Repair Method for R.C.C**

**CO602.a**

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- 1. Explain the probable crack location in RCC and causes of RCC failure.**
  - 2. Explain the causes of dampness in the roof slab and its various repair techniques.**
  - 3. Explain the repair methods for cracks in RCC structure.**
  - 4. Explain the repairing methods of corroded RCC elements.**
  - 5. Explain the strengthening methods for live cracks.**
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Assignment No :- 06

Subject : MRS(22602)

Topic Name :- Structural Audit and Budget Report.

Co602.f

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1. Explain the necessity and importance of structural audit and budget estimation.
  2. Explain the condition survey.
  3. Explain the stages of carrying out structural audit.
  4. Explain about the report and budget estimate.
  5. State the rules and regulations of structural audits.
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