

Course: Maintenance and Repair of Concrete Structures

Course Code: noc21-ce13

Session: 2020-21

Duration: 12 Weeks

Assessment procedures: Weekly Assignment (25%) + proctored certification Exam (75%)

Curriculum of the Course:

Week 1: Introduction, significance of corrosion, and corrosion mechanisms

Week 2: Embedded metal corrosion

Week 3: Deterioration of cementitious systems – Sulphate and Acid attack

Week 4: Deterioration of cementitious systems – Alkali Silica Reaction (ASR), Shrinkage, and others

Week 5: Concrete assessment using non-destructive tests (NDT)

Week 6: Concrete assessment and load effects

Week 7: Surface repair – Condition assessment

Week 8: Surface repair – Analysis, strategy, and design

Week 9: Surface repair – Material requirement, surface preparation, placement of repair material

Week 10: Strengthening and stabilization – Introduction and beam shear capacity strengthening

Week 11: Strengthening and stabilization – Column strengthening

Week 12: Strengthening and stabilization – Flexural strengthening

List of students enrolled

S.No.	Name of Student
1	Agam Sharma
2	Akanksha Foujdar
3	Anand Kumar
4	Ankit Tyagi
5	Ankit Verma
6	Anurag Meena
7	Anush Sharma
8	Ashish Meena
9	Ayush Choudhary
10	Ishant Jogani
11	Rakesh Choudhary
12	Ishant Jogani
13	Jay Kumar Bansiwala
14	Kahkashan Khanam
15	Mansi Kataria
16	Muskan Meena
17	Pooja Kumari Meena

18	Pankaj Sharma
19	Rajvardhan Kumawat
20	Priyanka Sharma
21	Rahul Saini
22	Rishikesh Karol
23	Ritik Mathur
24	Sahil Tilwani
25	Reddy Sai Praveen Reddy
26	Chitransh Srivastava
27	Vishal Meena
28	Shivani Meena
29	Shouryaraj Singh
30	Suraj Meena
31	Sandeep Verma
32	Tanmay Jaiswal
33	Vikas Aechara
34	Yadvendra Kumawat
35	Yash Sharma