Course: Modern Construction Materials

Course Code: noc20-ce05

Session: 2019-20

Duration: 12 Weeks

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

Curriculum of the Course:

Basics 0 Prologue – Introduction to the course

1 Science, Engineering and Technology of Materials

Module 2: Microstructure

- 2 Atomic Bonding
- 3 Structure of Solids
- 4 Movement of Atoms
- 5 Development of Microstructure

Module 3: Material Behaviour

- 6 Surface Properties
- 7 Response to Stress
- 8 Failure Theories
- 9 Fracture Mechanics
- 10 Rheology
- 11 Thermal Properties
- 12 Review of Construction Materials and Criteria for Selection
- 13 Wood and Wood Products
- 14 Polymers
- 15 Fibre Reinforced Polymers
- 16 Metals
- 17 Bituminous Materials
- 18 Concrete
- 19 Glass
- 20 Review of Non-structural Materials and Criteria for Selection
- 21 Waterproofing materials
- 22 Polymer Floor Finishes
- 23 Paints
- 24 Tiles
- 25 Acoustic Treatment
- 26 Dry walls
- 27 Anchors
- 28 Environmental Concerns
- 29 Social Perception of Construction Materials
- 30 Closure

List of students enrolled

S. No	Name
1	Mateen Ahmed

2	Praveen Singh Rawat
3	Ritik Mathur
4	Satendra Singh
5	Saurabh Meena
6	Shruti Chauhan
7	Tanmay Sharma
8	Tushar Sharma
9	Vipul Vikram Mathur