

Bouquet of MOOCs Courses in Civil Engineering

Table 1. List of certifiable courses approved for earning the extra credits under type Civil Engineering

Sl. No.	Name of the Subject & Instructor	Duration in Weeks	Start Date	Exam Dates	Enrolment End	Intended Audience
1	Applied Environmental Microbiology Prof. Gargi Singh, IIT, Roorkee	12 Weeks	18-01-2021	24 Apr, 2021	25 Jan, 2021	Any Interested Students
2	Architectural Conservation and Historic Preservation Prof. Sanghamitra Basu, IIT Kharagpur	8 Weeks	15-02-2021	25 Apr, 2021	15 Feb, 2021	Any Interested Students
3	Development and Applications of Special Concretes Prof. Sudhir Misra, IIT Kanpur	8 Weeks	18-01-2021	21 Mar, 2021	25 Jan, 2021	Any Interested Students
4	Digital Land Surveying And Mapping (DLS&M) Prof. J. K. Ghosh, IIT, Roorkee	8 Weeks	15-02-2021	24 Apr, 2021	15 Feb, 2021	Any Interested Students
5	Electronic Waste Management – Issues and Challenges Prof. Brajesh Kumar Dubey, IIT, Kharagpur	4 Weeks	18-01-2021	21 Mar, 2021	25 Jan, 2021	Any Interested Students
6	Environmental Remediation of Contaminated Sites Prof. Bhanu Prakash Vellanki, IIT Roorkee	12 Weeks	18-01-2021	25 Apr, 2021	25 Jan, 2021	Any Interested Students
7	Geomorphology Prof. Pitambar Pati, IIT Roorkee	12 Weeks	18-01-2021	25 Apr, 2021	25 Jan, 2021	Any Interested Students
8	Introduction to Accounting and Finance for Civil Engineering Prof. Sudhir Misra, Prof. K.N. Jha IIT Kanpur, IIT Delhi	8 Weeks	18-01-2021	21 Mar, 2021	25 Jan, 2021	Any Interested Students
9	Landscape Architecture and Site Planning–Basic Fundamental Prof. Uttam Kumar Banerjee, IIT Kharagpur	8 Weeks	15-02-2021	24 Apr, 2021	15 Feb, 2021	Any Interested Students
10	Maintenance and Repair of Concrete Structures Prof. Radhakrishna G. Pillai, IIT Madras	12 Weeks	18-01-2021	24 Apr, 2021	25 Jan, 2021	Any Interested Students
11	Mechanical Characterization of Bituminous Materials Prof. J. Murali Krishnan (JMK), Prof. A. Padmarekha (APR), Prof. Neethu Roy (NR), Prof. M. R. Nivitha (MRN), IIT Madras, SRM IST, Kattankulathur, MBCET, Trivandrum, PSG Tech., Coimbatore	12 Weeks	18-01-2021	24 Apr, 2021	25 Jan, 2021	Any Interested Students
12	Natural Hazards Prof. Javed N. Malik, IIT Kanpur	8 Weeks	18-01-2021	21 Mar, 2021	25 Jan, 2021	Any Interested Students
13	Plastic Waste Management Prof. Brajesh Kumar Dubey, IIT Kharagpur	8 Weeks	18-01-2021	21 Mar, 2021	25 Jan, 2021	Any Interested Students
14	Soil Structure Interaction Prof. Kousik Deb, IIT Kharagpur	12 Weeks	18-01-2021	25 Apr, 2021	25 Jan, 2021	Any Interested Students
15	Strategies for Sustainable Design Prof. Shiva Ji, IIT Hyderabad	12 Weeks	18-01-2021	25 Apr, 2021	25 Jan, 2021	Any Interested Students

Table 2. List of certifiable courses approved for earning the extra credits by Civil Engineering Students under **Mechanical Engineering (Inter Disciplinary)**

Sl. No.	Name of the Subject & Instructor	Duration in Weeks	Start Date	Exam Dates	Enrolment End	Intended Audience
1	Elements of Solar Energy Conversion Prof. Jishnu Bhattacharya, IIT Kanpur	12 Weeks	18-01-2021	25 Apr, 2021	25 Jan, 2021	Any Interested Students
2	Experimental Stress Analysis Prof. K. Ramesh, IIT Madras	12 Weeks	18-01-2021	25 Apr, 2021	25 Jan, 2021	Any Interested Students
3	Introduction to Robotics Prof. Ashish Dutta, IIT Kanpur	12 Weeks	18-01-2021	25 Apr, 2021	25 Jan, 2021	Any Interested Students

Table 3. List of certifiable courses approved for earning the extra credits by Civil Engineering Students under **Computer Science and Engineering (Inter Disciplinary)**

Sl. No.	Name of the Subject & Instructor	Duration in Weeks	Start Date	Exam Dates	Enrolment End	Intended Audience
1	An Introduction to Artificial Intelligence Prof. Mausam, IIT Delhi	12 Weeks	18-01-2021	25 Apr, 2021	25 Jan, 2021	Any Interested Students
2	Cryptography and Network Security Prof. Sourav Mukhopadhyay, IIT Kharagpur	12 Weeks	18-01-2021	24 Apr, 2021	: 25 Jan, 2021	Any Interested Students
3	Data Analytics with Python Prof. A Ramesh, IIT Roorkee	12 Weeks	18-01-2021	24 Apr, 2021	25 Jan, 2021	Any Interested Students
4	Introduction to Machine Learning Prof. Balaraman Ravindran, IIT Madras	12 Weeks	18-01-2021	25 Apr, 2021	25 Jan, 2021	Any Interested Students
5	Introduction to internet of things Prof. Sudip Misra, IIT Kharagpur	12 Weeks	18-01-2021	24 Apr, 2021	25 Jan, 2021	Any Interested Students
6	Social Networks Prof. Sudarshan Iyengar, IIT Ropar	12 Weeks	18-01-2021	25 Apr, 2021	25 Jan, 2021	Any Interested Students

Table 4. List of certifiable courses approved for earning the extra credits by Civil Engineering Students under **Chemical Engineering (Inter Disciplinary)**

Sl. No.	Name of the Subject & Instructor	Duration in Weeks	Start Date	Exam Dates	Enrolment End	Intended Audience
1	Waste to Energy Conversion Prof. P Mondal, IIT Roorkee	8 weeks	18 Jan 2021	21 Mar 2021	25 Jan 2021	Any Interested Students

Table 5. List of certifiable courses approved for earning the extra credits by Civil Engineering Students under **Metallurgy and Material Science & Mining Engineering (Inter Disciplinary)**

Sl. No.	Name of the Subject & Instructor	Duration in Weeks	Start Date	Exam Dates	Enrolment End	Intended Audience
1	Cathodic Protection Engineering Prof. V.S. Raja, IIT Bombay	4 weeks	18 Jan 2021	21 Mar 2021	25 Jan 2021	Any Interested Students
2	Scanning Electron / Ion / Probe Microscopy in Material Characterization Prof. Debabrata Pradhan, IIT Kharagpur	8 weeks	15 Feb 2021	24 Apr 2021	15 Feb 2021	Any Interested Students

Table 6. List of certifiable courses approved for earning the extra credits by Civil Engineering Students under **Ocean Engineering (Inter Disciplinary)**

Sl. No.	Name of the Subject & Instructor	Duration in Weeks	Start Date	Exam Dates	Enrolment End	Intended Audience
1	Offshore structures under special environmental loads including fire resistance Prof. Srinivasan Chandrasekaran, IIT Madras	12 weeks	18 Jan 2021	24 Apr 2021	25 Jan 2021	Any Interested Students

Table 7. List of certifiable courses approved for earning the extra credits by Civil Engineering Students under **Multidisciplinary (Inter Disciplinary)**

Sl. No.	Name of the Subject & Instructor	Duration in Weeks	Start Date	Exam Dates	Enrolment End	Intended Audience
1	Energy Resources, Economics and Environment Prof. Rangan Banerjee, IIT Bombay	12 Weeks	18 Jan 2021	24 Apr, 2021	25 Jan, 2021	Any Interested Students
2	Entrepreneurship Essentials Prof. Manoj Kumar Mondal, IIT Kharagpur	12 Weeks	18 Jan 2021	24 Apr, 2021	25 Jan, 2021	Any Interested Students
3	Fuzzy Logic and Neural Networks Prof. Dilip Kumar Pratihar IIT Kharagpur	8 Weeks	15-02-2021	25 Apr, 2021	15 Feb, 2021	Any Interested Students
4	Non-Conventional Energy Resources Prof. Prathap Haridoss IIT Madras	12 Weeks	18-01-2021	25 Apr, 2021	25 Jan, 2021	Any Interested Students
5	Qualitative Research Methods And Research Writing Prof. Aradhna Malik, IIT Kharagpur	12 Weeks	18-01-2021	24 Apr, 2021	25 Jan, 2021	Any Interested Students
6	Roadmap for patent creation Prof. Gouri Gargate, IIT Kharagpur	8 Weeks	18-01-2021	21 Mar, 2021	25 Jan, 2021	Any Interested Students