

Nirma University
School of Engineering, Institute of Technology
Teaching & Examination Scheme of Master of Technology in Civil Engineering
(Construction Technology and Management)

SEMESTER-II

w. e. f.: AY 2023-24

| Course Code | Course Title | Teaching Scheme(hours/week) | | | | Examination Scheme | | | |
|-------------|----------------------------------------------------------|-----------------------------|----------|-----------|-----------|--------------------|---------------------|-----|-----|
| | | L | T | P | C | Duration, hrs | Component Weightage | | |
| | | | | | | | SEE | CE | LPW |
| 6CL251 | Equipment & Material Management | 3 | - | - | 3 | 3 | 0.6 | - | 0.4 |
| 6CL252 | Construction Economics | 3 | - | - | 3 | 3 | 0.6 | - | 0.4 |
| 6CL2XX | Elective II | 3 | - | - | 3 | 3 | 0.6 | - | 0.4 |
| 6CL2XX | Elective III | 2 | - | 2 | 3 | 3 | 0.4 | 0.2 | 0.4 |
| 6CL253 | Computer Applications in Construction Project Management | - | - | 8 | 4 | 3 | - | 1.0 | - |
| 6CL292 | Minor Project II | - | - | 4 | 2 | - | - | 1.0 | - |
| 6CL152 | Research Methodology and IPR | 2 | - | - | 2 | - | 1.0 | - | - |
| | Total | 13 | - | 14 | 20 | | | | |
| 7CL281 | Internship | - | - | - | - | - | - | 1.0 | - |

List of Elective Courses

| Elective I & II (3-0-0-3) | | Elective III (2-0-2-3) | |
|---------------------------|-----------------------------------------------------------------|------------------------|-------------------------------------------------|
| Course Code | Course Title | Course Code | Course Title |
| 6CL221 | Quantitative Techniques in Management | 6CL261 | Finance and AccountManagement |
| 6CL222 | Infrastructure ProjectDevelopment and Management | 6CL262 | BIM & Lean Construction |
| 6CL223 | Building Automation andSmart City Planning | 6CL263 | Formwork for Civil Engineering Structures |
| 6CL224 | Real Estate Developmentand Management | 6CL264 | AI and ML in Construction Projects |
| 6CL225 | Safety, Health and Quality Management for Construction Projects | 6CL265 | Building Systems andServices |
| 6CL226 | Human Resource Management & Organizational Behaviour | 6CL266 | Construction Maintenanceand Rehabilitation |
| 6CL227 | Value Engineering | 6CL267 | Applications of Geo-Informatics in Construction |
| 6CL228 | Insurance & Risk Management for Construction Projects | 6CL268 | Functional Design ofBuildings |
| 6CL229 | Sustainable Construction Technologies and Management | 6CL269 | Advances in Geotechnical Engineering |
| 6CL230 | Advances in ConstructionMaterials | -- | -- |
| 6CL231 | Business Strategies andCorporate Planning | -- | -- |
| 6CL232 | Environmental ImpactAssessment for Construction Projects | -- | -- |