

Dr. B. C. Roy Engineering College, Durgapur
 Department of Civil Engineering
 B. Tech Elective Subjects (Academic Year 2021-22)

| SEM | PAPER CODE | COURSE OFFERED | NO of students opted during 2021-22 | | |
|-----------------|-------------------|------------------|---|-------------------------------|----|
| 6 TH | Elective-I | CE(PE)601A | Stability of Slopes | 0 | |
| | | CE(PE)601B | Foundation Engineering | 62 | |
| | | CE(PE)601C | Ground Improvement Technique | 0 | |
| | Elective-II | CE(PE)602A | Building Construction Practice | 0 | |
| | | CE(PE)602B | Structural Analysis-II | 62 | |
| | | CE(PE)602C | Industrial Structures | 0 | |
| | Open Elective-I | CE(OE)601A | Soft Skills and Interpersonal Communication – I | 62 | |
| | | CE(OE)601B | Introduction to Philosophical Thoughts | 0 | |
| | 7 TH | Open Elective-II | CE(OE)701A | Metro Systems & Engineering | 85 |
| CE(OE)701B | | | ICT for Development | 0 | |
| CE(OE)701C | | | Cyber Law & Ethics | 0 | |
| Elective-III | | CE(PE)701A | Computational Hydraulics | 0 | |
| | | CE(PE)701B | Disaster Preparedness and Planning | 0 | |
| | | CE(PE)701C | Hydraulic Structures | 85 | |
| Elective-IV | | CE(PE)702A | Prestressed concrete | 85 | |
| | | CE(PE)702B | Repairs & Rehabilitation of Structures | 0 | |
| | | CE(PE)702C | Finite Element Method | 0 | |
| Elective-V | | CE(PE)703A | Air and Noise pollution and control | 85 | |
| | | CE(PE)703B | Physico-Chemical Processes for Water and Wastewater Treatment | 0 | |
| | | CE(PE)703C | Water and Air Quality Modelling | 0 | |
| Elective-VI | | CE(PE)704A | Structural Dynamics | 0 | |
| | | CE(PE)704B | Advance structural analysis | 85 | |
| | | CE(PE)704C | Coastal Hydraulics and Sediment Transport | 0 | |
| Elective-VII | | CE(PE)705A | Railway and Airport Engineering | 0 | |
| | | CE(PE)705B | Pavement Design | 85 | |
| | | CE(PE)705C | Transport System Planning | 0 | |
| 8 TH | | Elective-VIII | CE(PE)801A | GIS & Remote Sensing | 0 |
| | | | CE(PE)801B | Rock Mechanics | 0 |
| | | | CE(PE)801C | Environmental laws and Policy | 0 |
| | CE(PE)801D | | Pavement materials and design | 85 | |
| | Open Elective-III | CE(OE)801A | Human Resource Development and Organizational Behaviour | 0 | |
| | | CE(OE)801B | Bridge Engineering | 0 | |
| | | CE(OE)801C | Deep foundations | 85 | |
| | | CE(OE)801D | Groundwater Contamination | 0 | |
| | Open Elective-IV | CE(OE)802A | Soft Skills and Personality Development | 0 | |
| | | CE(OE)802B | Earthquake Engineering | 0 | |
| | | CE(OE)802C | Urban Transport Planning | 0 | |
| | | CE(OE)802D | Environmental Impact Assessment and Life Cycle Analysis | 85 | |



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