

| SCHEME : CIVIL ENGINEERING (I to VIII SEM) APPLICABLE FOR STUDENTS ADMITTED IN 2020-21 AND ONWARDS | | | | | | | | | | | | | | | | |
|--|-------------|--|------|---------------|-------|-----|----|----|------------|----|-----------|-------------|--------------------|--------------------|-------------|------------------|
| Year/Sem | Course Code | Subject Name | Type | CORE/ELECTIVE | Group | IC | DC | DE | Non-Graded | OC | Dep.Spec. | Minor.Spec. | Max Marks Internal | Max Marks External | Credit/Unit | Programme-Option |
| 1 Sem. | MTL100 | Engineering Mathematics-I | TH | CORE | 1 | Yes | No | No | No | No | | | 50 | 100 | 4 | A |
| 1 Sem. | CSL100 | Programming for Problem Solving | TH | CORE | 2 | Yes | No | No | No | No | | | 50 | 100 | 2 | A |
| 1 Sem. | PYL100 | Engineering Physics | TH | CORE | 3 | Yes | No | No | No | No | | | 50 | 100 | 4 | A |
| 1 Sem. | EEL100 | Introduction to Electrical & Electronics Engineering | TH | CORE | 4 | Yes | No | No | No | No | | | 50 | 100 | 2 | A |
| 1 Sem. | HUN102 | Communication Skills | TH | CORE | 5 | No | No | No | Yes | No | | | 0 | 0 | 2 | A |
| 1 Sem. | PYP100 | Engineering Physics Lab | PR | CORE | 6 | Yes | No | No | No | No | | | 50 | 25 | 1 | A |
| 1 Sem. | EEP100 | Basic Electrical & Electronics Engineering Lab | PR | CORE | 7 | Yes | No | No | No | No | | | 50 | 25 | 1 | A |
| 1 Sem. | MEP102 | Computer Aided Machine Drawing | PR | CORE | 8 | Yes | No | No | No | No | | | 50 | 25 | 1 | A |
| 1 Sem. | CEP200 | Skill Development Laboratory | PR | CORE | 9 | Yes | No | No | No | No | | | 50 | 25 | 1 | A |

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| 1 Sem. | HUN112 | Language Lab | PR | CORE | 10 | No | No | No | Yes | No | | | 0 | 0 | 1 | A |
| 1 Sem. | SAN101 | Induction Program | PR | CORE | 11 | No | No | No | Yes | No | | | 0 | 0 | 0.5 | A |
| 1 Sem. | CSP100 | Programing Lab | PR | CORE | 12 | Yes | No | No | No | No | | | 50 | 25 | 1 | A |
| 1 Sem. | SAA100 | SODECA (Anandam) | PR | CORE | 13 | No | No | No | No | No | | | 100 | 0 | 0.5 | A |
| | | | | | | | | | | | | | | | | |
| 2 Sem. | MTL101 | Engineering Mathematics-II | TH | CORE | 1 | Yes | No | No | No | No | | | 50 | 100 | 4 | A |
| 2 Sem. | CSL101 | Data Analysis & AI Using Python | TH | CORE | 2 | Yes | No | No | No | No | | | 50 | 100 | 2 | A |
| 2 Sem. | CML101 | Engineering Chemistry | TH | CORE | 3 | Yes | No | No | No | No | | | 50 | 100 | 4 | A |
| 2 Sem. | MEL100 | Basic Mechanical Engineering | TH | CORE | 4 | Yes | No | No | No | No | | | 50 | 100 | 2 | A |
| 2 Sem. | HUN101 | Human Values & Professional Ethics | TH | CORE | 5 | No | No | No | Yes | No | | | 0 | 0 | 2 | A |

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| 2 Sem. | CMP100 | Engineering Chemistry Lab | PR | CORE | 6 | Yes | No | No | No | No | | | 50 | 25 | 1 | A |
| 2 Sem. | MEP100 | Basic Mechanical Engineering Lab | PR | CORE | 7 | Yes | No | No | No | No | | | 50 | 25 | 1 | A |
| 2 Sem. | CEP102 | Computer Aided Engineering Graphics | PR | CORE | 8 | Yes | No | No | No | No | | | 50 | 25 | 1 | A |
| 2 Sem. | MEP101 | Product Realization through Manufacturing | PR | CORE | 9 | Yes | No | No | No | No | | | 50 | 25 | 1 | A |
| 2 Sem. | HUN111 | Human Values Lab | PR | CORE | 10 | No | No | No | Yes | No | | | 0 | 0 | 1 | A |
| 2 Sem. | TPN101 | Club activity | PR | CORE | 11 | No | No | No | Yes | No | | | 0 | 0 | 0.5 | A |
| 2 Sem. | CSP101 | Python Lab | PR | CORE | 12 | Yes | No | No | No | No | | | 50 | 25 | 1 | A |
| 2 Sem. | SAA100 | SODECA (Anandam) | PR | CORE | 13 | No | No | No | No | No | | | 100 | 0 | 0.5 | A |
| | | | | | | | | | | | | | | | | |
| 3 Sem. | MTL102 | Advanced Mathematics (Branch specific) | TH | CORE | 1 | Yes | No | No | No | No | | | 50 | 100 | 4 | A |

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| 3 Sem. | HUL202 | Economics and Financial Management | TH | CORE | 2 | Yes | No | No | No | No | | | 50 | 100 | 3 | A |
| 3 Sem. | TPN102 | Soft Skill Development -1 | PR | CORE | 3 | No | No | No | Yes | No | | | 0 | 0 | 1 | A |
| 3 Sem. | SAA100 | SODECA (Anandam) | PR | CORE | 4 | No | No | No | No | No | | | 100 | 0 | 0.5 | A |
| 3 Sem. | CEL201 | Civil Engineering Materials | TH | CORE | 5 | No | Yes | No | No | No | | | 50 | 100 | 3 | A |
| 3 Sem. | CEL202 | Construction Technology | TH | CORE | 6 | No | Yes | No | No | No | | | 50 | 100 | 3 | A |
| 3 Sem. | CEL203 | Fluid Mechanics | TH | CORE | 7 | No | Yes | No | No | No | | | 50 | 100 | 3 | A |
| 3 Sem. | CEL204 | Engineering Geology | TH | CORE | 8 | No | Yes | No | No | No | | | 50 | 100 | 2 | A |
| 3 Sem. | CEL205 | Strength of Materials-I | TH | CORE | 9 | No | Yes | No | No | No | | | 50 | 100 | 3 | A |
| 3 Sem. | CEP201 | Materials Testing Lab | PR | CORE | 10 | No | Yes | No | No | No | | | 50 | 25 | 1 | A |

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| 3 Sem. | CEP202 | Building Drawing Lab | PR | CORE | 11 | No | Yes | No | No | No | | | 50 | 25 | 1 | A |
| 3 Sem. | CEP203 | Fluid Mechanics Lab | PR | CORE | 12 | No | Yes | No | No | No | | | 50 | 25 | 1 | A |
| 3 Sem. | CEP204 | Engineering Geology Lab | PR | CORE | 13 | No | Yes | No | No | No | | | 50 | 25 | 1 | A |
| | | | | | | | | | | | | | | | | |
| 4 Sem. | CEL 101 | Environmental Science | TH | CORE | 1 | Yes | No | No | No | No | | | 50 | 100 | 2 | A |
| 4 Sem. | HUL201 | General Studies | TH | CORE | 2 | Yes | No | No | No | No | | | 50 | 100 | 2 | A |
| 4 Sem. | TPN103 | Soft Skill Development -2 | PR | CORE | 3 | No | No | No | Yes | No | | | 0 | 0 | 1 | A |
| 4 Sem. | SAA100 | SODECA (Anandam) | PR | CORE | 4 | No | No | No | No | No | | | 100 | 0 | 0.5 | A |
| 4 Sem. | CEL206 | Concrete Technology | TH | CORE | 5 | No | Yes | No | No | No | | | 50 | 100 | 3 | A |
| 4 Sem. | CEL207 | Hydraulics & Hydraulic Machines | TH | CORE | 6 | No | Yes | No | No | No | | | 50 | 100 | 3 | A |

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| 4 Sem. | CEL208 | Building Planning | TH | CORE | 7 | No | Yes | No | No | No | | | 50 | 100 | 3 | A |
| 4 Sem. | CEL305 | Strength of Materials II | TH | CORE | 8 | No | Yes | No | No | No | | | 50 | 100 | 3 | A |
| 4 Sem. | CEP206 | Concrete Lab | PR | CORE | 9 | No | Yes | No | No | No | | | 50 | 25 | 1 | A |
| 4 Sem. | CEP207 | Hydraulics Lab | PR | CORE | 10 | No | Yes | No | No | No | | | 50 | 25 | 1 | A |
| 4 Sem. | CEP208 | Building Planning Lab | PR | CORE | 11 | No | Yes | No | No | No | | | 50 | 25 | 1 | A |
| 4 Sem. | CEL209 | Disaster Management | TH | ELECTIVE | 12 | No | No | No | No | Yes | | | 50 | 100 | 3 | A |
| | | | | | | | | | | | | | | | | |
| 5 Sem. | HUL203 | Indian Constitution | TH | CORE | 1 | Yes | No | No | No | No | | | 50 | 100 | 2 | A |
| 5 Sem. | CEN201 | Seminar-1 | PR | CORE | 2 | No | No | No | Yes | No | | | 0 | 0 | 1 | A |
| 5 Sem. | CET301 | Industrial training (45 days) | PR | CORE | 3 | No | No | No | No | No | | | 50 | 25 | 2 | A |

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| 5 Sem. | SAA100 | SODECA (Anandam) | PR | CORE | 4 | No | No | No | No | No | | | 100 | 0 | 0.5 | A |
| 5 Sem. | CEL405 | Theory of Structures | TH | CORE | 5 | No | Yes | No | No | No | | | 50 | 100 | 3 | A |
| 5 Sem. | CEL301 | Surveying | TH | CORE | 6 | No | Yes | No | No | No | | | 50 | 100 | 3 | A |
| 5 Sem. | CEL302 | Geotechnical Engineering | TH | CORE | 7 | No | Yes | No | No | No | | | 50 | 100 | 3 | A |
| 5 Sem. | CEL303 | Design of Concrete Structures | TH | CORE | 8 | No | Yes | No | No | No | | | 50 | 100 | 3 | A |
| 5 Sem. | CEL304 | Modern Concrete Technology | TH | ELECTIVE | 9 | No | No | Yes | No | No | | | 50 | 100 | 3 | A |
| 5 Sem. | CEL306 | Social AspectS in Civil Engineering | TH | ELECTIVE | 9 | No | No | Yes | No | No | | | 50 | 100 | 3 | A |
| 5 Sem. | CEL307 | Solid and Hazardous Waste Management | TH | ELECTIVE | 9 | No | No | Yes | No | No | | | 50 | 100 | 3 | A |
| 5 Sem. | CEL317 | Remote Sensing Essentials | TH | ELECTIVE | 10 | No | No | No | No | Yes | | | 50 | 100 | 3 | A |

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| 5 Sem. | CEP405 | Strutural Engineering Lab | PR | CORE | 11 | No | Yes | No | No | No | | | 50 | 25 | 1 | A |
| 5 Sem. | CEP301 | Survey Lab | PR | CORE | 12 | No | Yes | No | No | No | | | 50 | 25 | 1 | A |
| 5 Sem. | CEP302 | Geotechnical Engineering Lab | PR | CORE | 13 | No | Yes | No | No | No | | | 50 | 25 | 1 | A |
| 5 Sem. | CEP303 | Concrete Structures Design Lab | PR | CORE | 14 | No | Yes | No | No | No | | | 50 | 25 | 1 | A |
| 5 Sem. | CEL411 | Construction Equipments and its management | TH | CORE | 15 | No | No | No | No | No | CONSTRUCTION MANAGEMENT | | 50 | 100 | 3 | A |
| 5 Sem. | CEL415 | Transportation Planning | TH | CORE | 16 | No | No | No | No | No | TRANSPORTATION ENGINEERING | | 50 | 100 | 3 | A |
| | | | | | | | | | | | | | | | | |
| 6 Sem. | CEN202 | Seminar-2 | PR | CORE | 1 | No | No | No | Yes | No | | | 0 | 0 | 1 | A |

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| 6 Sem. | SAA100 | SODECA (Anandam) | PR | CORE | 2 | No | No | No | No | No | | | 100 | 0 | 0.5 | A |
| 6 Sem. | CEL308 | Design of Steel Structures | TH | CORE | 3 | No | Yes | No | No | No | | | 50 | 100 | 3 | A |
| 6 Sem. | CEL309 | Quantity Surveying and Valuation | TH | CORE | 4 | No | Yes | No | No | No | | | 50 | 100 | 3 | A |
| 6 Sem. | CEL310 | Environmental Engineering - I | TH | CORE | 5 | No | Yes | No | No | No | | | 50 | 100 | 3 | A |
| 6 Sem. | CEL311 | Highway and Traffic Engineering | TH | CORE | 6 | No | Yes | No | No | No | | | 50 | 100 | 3 | A |
| 6 Sem. | CEL312 | GIS and Remote sensing | TH | ELECTIVE | 7 | No | No | Yes | No | No | | | 50 | 100 | 4 | A |
| 6 Sem. | CEL313 | Foundation Engineering | TH | ELECTIVE | 7 | No | No | Yes | No | No | | | 50 | 100 | 4 | A |
| 6 Sem. | CEL314 | Wind and Seismic Analysis | TH | ELECTIVE | 7 | No | No | Yes | No | No | | | 50 | 100 | 4 | A |
| 6 Sem. | CEL315 | Green Building Technology | TH | ELECTIVE | 8 | No | No | No | No | Yes | | | 50 | 100 | 4 | A |

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| 6 Sem. | CEP308 | Steel Structures Design Lab | PR | CORE | 9 | No | Yes | No | No | No | | | 50 | 25 | 1 | A |
| 6 Sem. | CEP310 | Environmental Engineering Lab I | PR | CORE | 11 | No | Yes | No | No | No | | | 50 | 25 | 1 | A |
| 6 Sem. | CEP311 | Road Material Testing Lab | PR | CORE | 12 | No | Yes | No | No | No | | | 50 | 25 | 1 | A |
| 6 Sem. | CEL412 | Materials Management | TH | CORE | 13 | No | No | No | No | No | CONSTRUCTION MANAGEMENT | | 50 | 100 | 4 | A |
| 6 Sem. | CEL416 | Traffic Engineering and Field Studies | TH | CORE | 14 | No | No | No | No | No | TRANSPORTATION ENGINEERING | | 50 | 100 | 4 | A |
| 6 Sem. | - | - | PR | CORE | - | No | No | No | No | No | | | 0 | 0 | | A |
| | | | | | | | | | | | | | | | | |
| 7 Sem. | CED411 | Project Part-1 | PR | CORE | 1 | No | Yes | No | No | No | | | 50 | 25 | 4 | A |

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| 7 Sem. | CET302 | Industrial training (60 days) | PR | CORE | 2 | No | No | No | No | No | | | 50 | 25 | 3 | A |
| 7 Sem. | SAA100 | SODECA (Anandam) | PR | CORE | 3 | No | No | No | No | No | | | 100 | 0 | 0.5 | A |
| 7 Sem. | CEL401 | Water Resources Engineering | TH | CORE | 4 | No | Yes | No | No | No | | | 50 | 100 | 3 | A |
| 7 Sem. | CEL402 | Environmental Engineering II | TH | CORE | 5 | No | Yes | No | No | No | | | 50 | 100 | 3 | A |
| 7 Sem. | CEL403 | Ground Improvement Technique | TH | ELECTIVE | 6 | No | No | Yes | No | No | | | 50 | 100 | 4 | A |
| 7 Sem. | CEL404 | Bridge Engineering | TH | ELECTIVE | 6 | No | No | Yes | No | No | | | 50 | 100 | 4 | A |
| 7 Sem. | CEL406 | Railway and Airport Engineering | TH | ELECTIVE | 6 | No | No | Yes | No | No | | | 50 | 100 | 4 | A |
| 7 Sem. | CEL407 | Pavement Design | TH | ELECTIVE | 7 | No | No | Yes | No | No | | | 50 | 100 | 4 | A |
| 7 Sem. | CEL408 | Repair and Rehabilitation of Structures | TH | ELECTIVE | 7 | No | No | Yes | No | No | | | 50 | 100 | 4 | A |

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| 7 Sem. | CEL409 | Fire and Safety Engineering | TH | ELECTIVE | 7 | No | No | Yes | No | No | | | 50 | 100 | 4 | A |
| 7 Sem. | CEP401 | Water Resources Engineering Design Lab | PR | CORE | 8 | No | Yes | No | No | No | | | 50 | 25 | 1 | A |
| 7 Sem. | CEP402 | Environmental Engineering Lab II | PR | CORE | 9 | No | Yes | No | No | No | | | 50 | 25 | 1 | A |
| 7 Sem. | CEL413 | Contract Management and Labour Laws | TH | CORE | 10 | No | No | No | No | No | CONSTRUCTION MANAGEMENT | | 50 | 100 | 4 | A |
| 7 Sem. | CEL417 | Advanced Highway Material Characterization | TH | CORE | 11 | No | No | No | No | No | TRANSPORTATION ENGINEERING | | 50 | 100 | 3 | A |
| 7 Sem. | CEP417 | Advanced Highway Material Characterization Lab | PR | CORE | 12 | No | No | No | No | No | TRANSPORTATION ENGINEERING | | 50 | 25 | 1 | A |
| 7 Sem. | CEL316 | Safety Management in Construction | TH | ELECTIVE | 13 | No | No | No | No | Yes | | | 50 | 100 | 4 | A |

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| 7 Sem. | CEL410 | Project Planning & Construction Management | TH | CORE | 14 | No | Yes | No | No | No | | | 50 | 100 | 3 | A |
| 7 Sem. | CEP410 | Project Planning & Construction Management Lab | PR | CORE | 15 | No | Yes | No | No | No | | | 50 | 25 | 1 | A |
| 7 Sem. | CEL414 | Project Economics and Financial Management | TH | CORE | 16 | No | No | No | No | No | CONSTRUCTION MANAGEMENT | | 50 | 100 | 4 | A |
| 7 Sem. | CEL418 | Highway Pavement Maintenance | TH | CORE | 17 | No | No | No | No | No | TRANSPORTATION ENGINEERING | | 50 | 100 | 4 | A |
| 7 Sem. | CED413 | Minor Project in Construction Management | PR | CORE | 18 | No | No | No | No | No | CONSTRUCTION MANAGEMENT | | 50 | 100 | 5 | A |

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| 7 Sem. | CED414 | Minor Project in Transportation Engineering | PR | CORE | 19 | No | No | No | No | No | TRANSPORTATION ENGINEERING | | 50 | 100 | 5 | A |
| | | | | | | | | | | | | | | | | |
| 8 Sem. | HUL204 | Innovation & Entrepreneurship | TH | CORE | 1 | Yes | No | No | No | No | | | 50 | 100 | 3 | A |
| 8 Sem. | CED412 | Project Part-2 | PR | CORE | 2 | No | Yes | No | No | No | | | 50 | 25 | 6 | A |
| 8 Sem. | SAA100 | SODECA (Anandam) | PR | CORE | 3 | No | No | No | No | No | | | 100 | 0 | 0.5 | A |
| 8 Sem. | HUL205 | EQUIVALENT MOOC OF Innovation & Entrepreneurship | TH | CORE | 4 | Yes | No | No | No | No | | | 50 | 100 | 3 | B |
| 8 Sem. | CEL411 | Air and Noise pollution and Control | TH | ELECTIVE | 5 | No | No | Yes | No | No | | | 50 | 100 | 3 | A |
| 8 Sem. | CEL412 | Rock Engineering | TH | ELECTIVE | 5 | No | No | Yes | No | No | | | 50 | 100 | 3 | A |
| 8 Sem. | CEL413 | Prestress Concrete | TH | ELECTIVE | 5 | No | No | Yes | No | No | | | 50 | 100 | 3 | A |

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| 8 Sem. | SAA100 | SODECA (Anandam) | PR | CORE | 6 | No | No | No | No | No | | | 100 | 0 | 0.5 | B |
| 8 Sem. | CED415 | INTERNSHIP | PR | CORE | 7 | No | Yes | No | No | No | | | 50 | 25 | 10 | B |