

SHRI G S INSTITUTE OF TECHNOLOGY & SCIENCE, INDORE

1 YEAR B.TECH. (4YDC) CIVIL ENGINEERING

Semester - A

| S. No. | Subject Code | Subject Name | Periods per Week | | | Th. Credit | Pr. Credit | Maximum Marks | | | | |
|--------|--------------|---|------------------|---|----|------------|------------|---------------|-----|-----|-----|-------|
| | | | L | T | P | | | Th. | CW | SW | Pr. | Total |
| 1 | MA 10001 | Mathematics - I | 4 | 1 | 0 | 4 | 0 | 70 | 30 | 0 | 0 | 100 |
| 2 | PH 10002 | Physics | 4 | 0 | 2 | 3 | 1 | 70 | 30 | 20 | 30 | 150 |
| 3 | CE 10003 | Fundamentals of Civil Engineering & Applied Mechanics | 4 | 0 | 2 | 3 | 1 | 70 | 30 | 20 | 30 | 150 |
| 4 | ME 10004 | Engineering Graphics | 3 | 0 | 4 | 2 | 2 | 70 | 30 | 40 | 60 | 200 |
| 5 | EE 10005 | Fundamentals of Electrical Engineering | 4 | 0 | 2 | 3 | 1 | 70 | 30 | 20 | 30 | 150 |
| 6 | CH 10081 | Environmental Science | 0 | 1 | 2 | 0 | 2 | 0 | 0 | 100 | 0 | 100 |
| 7 | HU 10082 | Communication Skills | 0 | 1 | 2 | 0 | 2 | 0 | 0 | 50 | 0 | 50 |
| 8 | CE 11181 | Civil Engineering: Concepts & Scope | 0 | 1 | 2 | 0 | 2 | 0 | 0 | 100 | 0 | 100 |
| Total | | | 19 | 4 | 16 | 15 | 11 | 350 | 150 | 350 | 150 | 1000 |

Semester - B

| S. No. | Subject Code | Subject Name | Periods per Week | | | Th. Credit | Pr. Credit | Maximum Marks | | | | |
|--------|--------------|--|------------------|---|----|------------|------------|---------------|-----|-----|-----|-------|
| | | | L | T | P | | | Th. | CW | SW | Pr. | Total |
| 1 | MA 10501 | Mathematics – II | 4 | 1 | 0 | 4 | 0 | 70 | 30 | 0 | 0 | 100 |
| 2 | CH 10502 | Chemistry | 4 | 0 | 2 | 3 | 1 | 70 | 30 | 20 | 30 | 150 |
| 3 | HU 10503 | Technical English | 3 | 0 | 2 | 2 | 1 | 70 | 30 | 20 | 30 | 150 |
| 4 | CO 10504 | Computer Programming | 4 | 0 | 2 | 3 | 1 | 70 | 30 | 20 | 30 | 150 |
| 5 | ME 10505 | Fundamentals of Mechanical Engineering | 3 | 0 | 2 | 2 | 1 | 70 | 30 | 20 | 30 | 150 |
| 6 | IP 10581 | Manufacturing Practices | 0 | 1 | 4 | 0 | 3 | 0 | 0 | 40 | 60 | 100 |
| 7 | IP 10582 | Concepts in Engineering Design | 0 | 1 | 2 | 0 | 2 | 0 | 0 | 100 | 0 | 100 |
| 8 | HU 10583 | Rural outreach | 0 | 3 | 0 | 0 | 3 | 0 | 0 | 100 | 0 | 100 |
| Total | | | 18 | 6 | 14 | 14 | 12 | 350 | 150 | 320 | 180 | 1000 |

IV YEAR B.E.(4YDC) CIVIL ENGINEERING

SEMESTER - VII

| S. No. | Sub. Code | Subject | Periods per Week | | | Th. Credit | Pr. Credit | Maximum Marks | | | | |
|--------|-----------|-------------------------------------|------------------|---|----|------------|------------|---------------|-----|-----|-----|-------|
| | | | L | T | P | | | Th. | CW | SW | Pr. | Total |
| 1 | CE 4102 | Structural Analysis-II | 4 | - | - | 4 | - | 70 | 30 | - | - | 100 |
| 2 | CE 4104 | Transportation Engg.-II | 4 | - | 2 | 4 | 2 | 70 | 30 | 40 | 60 | 200 |
| 3 | CE 4106 | Design of Hydraulic Structure | 4 | - | 2 | 4 | 2 | 70 | 30 | 40 | 60 | 200 |
| 4 | CE 4107 | Geotechnical Engg. -II | 4 | - | 2 | 4 | 2 | 70 | 30 | 40 | 60 | 200 |
| 5 | CE 4108 | Design of RCC & Prestressed Bridge | 4 | - | 2 | 4 | 2 | 70 | 30 | 40 | 60 | 200 |
| 6 | CE 4141 | Major Project Phase - I (AB Group) | | | 4 | - | 4 | - | - | 40 | 60 | 100 |
| | CE 4193 | Major Project Phase - II (BA Group) | | | | | | | | | | |
| Total | | | 20 | 0 | 12 | 20 | 12 | 350 | 150 | 200 | 300 | 900 |

SEMESTER - VIII

| S. No. | Sub. Code | Subject | Periods per Week | | | Th. Credit | Pr. Credit | Maximum Marks | | | | |
|--------|---------------|-------------------------------------|------------------|---|----|------------|------------|---------------|-----|-----|-----|-------|
| | | | L | T | P | | | Th. | CW | SW | Pr. | Total |
| 1 | CE 4152 | Structural Design-III | 4 | - | 2 | 4 | 2 | 70 | 30 | 40 | 60 | 200 |
| 2 | CE 4153 | Environmental Engg. - II | 4 | - | 2 | 4 | 2 | 70 | 30 | 40 | 60 | 200 |
| 3 | Elective - I | | 4 | - | 2 | 4 | 2 | 70 | 30 | 40 | 60 | 200 |
| 4 | Elective - II | | 4 | - | 2 | 4 | 2 | 70 | 30 | 40 | 60 | 200 |
| 5 | CE 4141 | Major Project Phase - I (BA Group) | | | 4 | - | 4 | - | - | 40 | 60 | 100 |
| | CE 4193 | Major Project Phase - II (AB Group) | | | | | | | | | | |
| 6 | CE 4194 | Seminar | | | | - | 2 | - | - | 50 | - | 50 |
| Total | | | 16 | 0 | 12 | 16 | 14 | 280 | 120 | 250 | 300 | 950 |

List of Electives

| Elective I | | | Elective II | | |
|------------|-----------|--|-------------|--------------|---|
| S.No. | Sub. Code | Subject | S.No. | Subject Code | Subject |
| 1 | CE 4171 | Advanced Analysis of Structures | 1 | CE 4181 | Advanced Environmental Engg. |
| 2 | CE 4172 | Advanced Structural Design(Building) | 2 | CE 4182 | Advanced Geology & Rock Mechanics |
| 3 | CE 4173 | Bridge Engineering | 3 | CE 4183 | Advanced Remote Sensing |
| 4 | CE 4174 | Computer Aided Analysis & Design of Structures | 4 | CE 4184 | Advanced Transportation Engg. |
| 5 | CE 4175 | Pre-stressed Concrete Design | 5 | CE 4185 | Advanced Water Resources Engg. |
| 6 | CE 4176 | Structural Dynamics | 6 | CE 4186 | Foundation Engineering |
| 7 | CE 4177 | Instrumentation & Experimental Techniques | 7 | CE 4187 | Advanced Construction Planning & Management |