Scheme of Teaching and Examination 2018-19

Outcome Based Education(OBE) and Choice Based Credit System (CBCS)

(Effective from the academic year 2019-20)

III SEMESTER B.Tech (Department of Civil Engineering)

| Sl. No. | Co | ourse Code | Course Title | ning Dept. & Paper Setting Board | Fairbooo | Hours/week | | | Exam | ination | | Credits |
|------------|---------------------------------------------------------------------------------------------|-----------------------------------------|---------------------------------|-------------------------------------|----------|------------|----|----------------------|-----------|-----------|----------------|---------|
| | | | | Teaching Dept. Setting Bo | L | Т | P | Duration in hours | CIE Marks | SEE Marks | Total Marks | |
| 1 | BSC | 18MAT31 | Engineering Mathematics-III | Mathematics | 3 | 1 | | 3 | 50 | 50 | 100 | 04 |
| 2 | PCC | 18CV32 | Mechanics of Materials | | 3 | 1 | | 3 | 50 | 50 | 100 | 04 |
| 3 | PCC | 18CV33 | Fluid Mechanics | | 3 | 1 | | 3 | 50 | 50 | 100 | 04 |
| 4 | PCC | 18CV34 | Basics Surveying | | 4 | 0 | | 3 | 50 | 50 | 100 | 04 |
| 5 | PCC | 18CVL35 | Applied Engineering Geology lab | | | | 2 | 3 | 50 | 50 | 100 | 01 |
| 6 | PCC | 18CVL36 | Surveying Practice-I Lab | | | | 2 | 3 | 50 | 50 | 100 | 01 |
| 7 | PCC | 18CVL37 | Fluid Mechanics-I Lab | | | | 2 | 3 | 50 | 50 | 100 | 01 |
| 8 | MP | 18PR38 | Project-III | | | | 2 | 3 | 50 | 50 | 100 | 01 |
| 9 | HSMC | 20KANAK310 | AaidaKategalu | Lumonities | 1 | | 2 | 3 | 50 | 50 | 100 | 01 |
| 10 | HSMC | MC 18KANKK310 Kannada Kali-3 Humanities | | 1 | | 2 | 3 | 30 | 50 | 100 | 01 | |
| | • | | Total | • | 14 | 3 | 10 | 27 | 450 | 450 | 900 | 21 |
| | BSC-Basic Science, PCC-Professional Core, HSMC-Humanity and Social Science, MP-Mini Project | | | | | | | | | | | |

Scheme of Teaching and Examination 2018-19

Outcome Based Education (OBE) and Choice Based Credit System (CBCS)

(Effective from the academic year 2019-20)

IV SEMESTER B.Tech (Department of Civil Engineering)

| Sl. No. | Cour | rse Code | Teaching Board Teaching Board Teaching | | | | k | | Credits | | | |
|------------|-------|----------------------------|----------------------------------------------|---------------------|---|---|----|-----------------|---------|--------------|----------------|----|
| | | | | Teachir Paper Se | L | Т | P | Duratio n in | CIE | SEE Marks | Total Marks | Ü |
| 1 | BSC | 18MAT41 | Engineering Mathematics-IV | Mathematics | 3 | 1 | | 3 | 50 | 50 | 100 | 04 |
| 2 | PCC | 18CV42 | Structural Analysis-I | | 3 | 1 | | 3 | 50 | 50 | 100 | 04 |
| 3 | PCC | 18CV43 | Hydraulics and Hydraulic Machines | | 3 | 1 | | 3 | 50 | 50 | 100 | 04 |
| 4 | PCC | 18CV44 | Building Materials & Construction Technology | | 4 | 0 | | 3 | 50 | 50 | 100 | 04 |
| 5 | PCC | 18CVL45 | Building Material Testing Lab | | | | 2 | 3 | 50 | 50 | 100 | 01 |
| 6 | PCC | 18CVL46 | Surveying Practice-II Lab | | | | 2 | 3 | 50 | 50 | 100 | 01 |
| 7 | PCC | 18CVL47 | Fluid Mechanics-II Lab | | | | 2 | 3 | 50 | 50 | 100 | 01 |
| 8 | MP | 18PR48 | Project-IV | | | | 2 | 3 | 50 | 50 | 100 | 01 |
| 9 | HSMC | 20KANM D410 | Mahadasohigalu | Humanities | 1 | | 2 | 3 | 50 | 50 | 100 | 01 |
| 9 | пэмс | 18KANKK 410 Kannada Kali-4 | 1 | | 2 | 3 | 30 | 30 | 100 | 01 | | |
| | Total | | | | | | | 27 | 450 | 450 | 900 | 21 |

BSC-Basic Science, PCC-Professional Core, HSMC-Humanity and Social Science, MP-Mini Project

Scheme of Teaching and Examination 2018-19

Outcome Based Education(OBE) and Choice Based Credit System (CBCS)

(Effective from the academic year 2020-21)

V SEMESTER B.Tech (Department of Civil Engineering)

| CLNI | Con | Colo | Course Title | Dept. & ing Board | Tocohing | Teaching Hours/wee k | | | Examination | | | | | | |
|-------|-----------|------------------|--------------------------------------------------------------------------|-----------------------------------------|----------|----------------------------|---|----------------------|--------------|--------------|----------------|---------|--|--|--|
| Sl.No | Cot | rrse Code | | Teaching Dept. & Paper Setting Board | L | Т | P | Duration in hours | CIE Marks | SEE Marks | Total Marks | Credits | | | |
| 1 | PCC | 18CV51 | Design Of RCC Structural Elements | | 3 | 2 | | 3 | 50 | 50 | 100 | 04 | | | |
| 2 | PCC | 18CV52 | Structural Analysis-II | | 3 | 2 | | 3 | 50 | 50 | 100 | 04 | | | |
| 3 | PCC | 18CV53 | Basic Geotechnical Engineering | | 3 | | | 3 | 50 | 50 | 100 | 04 | | | |
| 4 | PCC | 18CV54 | Concrete Technology | | 3 | | | 3 | 50 | 50 | 100 | 04 | | | |
| 5 | PCC | 18CVL55 | Computer Aided Building Planning and Drawing-lab | | | | 2 | 3 | 50 | 50 | 100 | 01 | | | |
| 6 | PCC | 18CVL56 | Geotechnical Engineering Lab | | | | 2 | 3 | 50 | 50 | 100 | 01 | | | |
| 7 | PCC | 18CVL57 | Concrete & Highway Material Testing lab | | | | 2 | 3 | 50 | 50 | 100 | 01 | | | |
| 8 | MP | 18PR58 | Project-V | | | | 2 | 3 | 50 | 50 | 100 | 01 | | | |
| 9 | HSMC | 18HSM59A | Professional Ethics | Humaniti es | 1 | | | 3 | 50 | 50 | 100 | 01 | | | |
| | • | | Total | • | 13 | 4 | 8 | 27 | 450 | 450 | 900 | 21 | | | |
| | PCC-Profe | ssional Core, HS | PCC-Professional Core, HSMC-Humanity and Social Science, MP-Mini Project | | | | | | | | | | | | |

Scheme of Teaching and Examination 2018-19

Outcome Based Education(OBE) and Choice Based Credit System (CBCS)

(Effective from the academic year 2020-21)

VI SEMESTER (Department of Civil Engineering)

| Cou | ırse Code | Course Title | ng ret | | Teaching Hours/we ek | | | | | | ij |
|-------------------|-------------------------|-------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Sl.No Course Code | | | Teaching Dept. & Paper Setting Board | L | Т | P | Duration in hours | CIE | SEE Marks | Total Marks | Credits |
| PCC | 18CV61 | Design of Steel Structures | | 3 | 2 | | 3 | 50 | 50 | 100 | 04 |
| PCC | 18CV62 | Advanced Geotechnical Engineering | | 3 | | | 3 | 50 | 50 | 100 | 04 |
| PEC | 18CV631 | Highway Engineering | | 3 | | | 3 | 50 | 50 | 100 | 03 |
| TEC | 18CV632 | Traffic Engineering | | 3 | | | 3 | 30 | 30 | 100 | 03 |
| OEC | 18CV641 | Air Pollution & Control | | 2 | | | 2 | 50 | 50 | 100 | 03 |
| OEC | 18CV642 | Environmental Engineering | | 3 | | | 3 | 30 | 30 | 100 | 03 |
| PCC | 18CVL65 | Extensive Survey Lab | | | | 2 | 3 | 50 | 50 | 100 | 01 |
| PCC | 18CVL66 | Software Application Lab | | | | 2 | 3 | 50 | 50 | 100 | 01 |
| PCC | 18CVL67 | Field Training Lab | | | | 2 | 3 | 50 | 50 | 100 | 01 |
| MP | 18PR68 | Project-VI | | | | 2 | 3 | 50 | 50 | 100 | 01 |
| HSMC | 18HSM69A | Soft skills | Humanities | 1 | | 2 | 3 | 50 | 50 | 100 | 01 |
| Total | | | | | | | 27 | 450 | 450 | 900 | 19 |
| | PCC PCC PCC PCC MP HSMC | PCC 18CV62 PEC 18CV631 18CV632 OEC 18CV641 18CV642 PCC 18CVL65 PCC 18CVL66 PCC 18CVL67 MP 18PR68 HSMC 18HSM69A | PCC 18CV62 Advanced Geotechnical Engineering 18CV631 Highway Engineering 18CV632 Traffic Engineering 18CV641 Air Pollution & Control 18CV642 Environmental Engineering PCC 18CVL65 Extensive Survey Lab PCC 18CVL66 Software Application Lab PCC 18CVL67 Field Training Lab MP 18PR68 Project-VI HSMC 18HSM69A Soft skills | PCC 18CV61 Design of Steel Structures PCC 18CV62 Advanced Geotechnical Engineering PEC 18CV631 Highway Engineering 18CV632 Traffic Engineering OEC 18CV641 Air Pollution & Control 18CV642 Environmental Engineering PCC 18CVL65 Extensive Survey Lab PCC 18CVL66 Software Application Lab PCC 18CVL67 Field Training Lab MP 18PR68 Project-VI HSMC 18HSM69A Soft skills Humanities Total | PCC 18CV61 Design of Steel Structures 3 PCC 18CV62 Advanced Geotechnical Engineering 3 PEC 18CV631 Highway Engineering 3 18CV632 Traffic Engineering 3 OEC 18CV641 Air Pollution & Control 3 18CV642 Environmental Engineering 3 PCC 18CVL65 Extensive Survey Lab PCC 18CVL66 Software Application Lab PCC 18CVL67 Field Training Lab MP 18PR68 Project-VI HSMC 18HSM69A Soft skills Humanities 1 Total 13 | PCC 18CV61 Design of Steel Structures 3 2 PCC 18CV62 Advanced Geotechnical Engineering 3 3 PEC 18CV631 Highway Engineering 3 3 18CV632 Traffic Engineering 3 3 OEC 18CV641 Air Pollution & Control 3 3 PCC 18CV642 Environmental Engineering 3 3 PCC 18CVL65 Extensive Survey Lab 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 | PCC 18CV61 Design of Steel Structures 3 2 PCC 18CV62 Advanced Geotechnical Engineering 3 3 PEC 18CV631 Highway Engineering 3 3 18CV632 Traffic Engineering 3 3 OEC 18CV641 Air Pollution & Control 3 3 PCC 18CV642 Environmental Engineering 3 2 PCC 18CVL65 Extensive Survey Lab 2 2 PCC 18CVL66 Software Application Lab 2 2 PCC 18CVL67 Field Training Lab 2 2 MP 18PR68 Project-VI 2 2 HSMC 18HSM69A Soft skills Humanities 1 2 Total 13 2 10 | PCC 18CV61 Design of Steel Structures 3 2 3 PCC 18CV62 Advanced Geotechnical Engineering 3 3 3 PEC 18CV631 Highway Engineering 3 3 18CV632 Traffic Engineering 3 3 OEC 18CV641 Air Pollution & Control 3 3 PCC 18CV642 Environmental Engineering 3 3 PCC 18CVL65 Extensive Survey Lab 2 3 PCC 18CVL66 Software Application Lab 2 3 PCC 18CVL67 Field Training Lab 2 3 MP 18PR68 Project-VI 2 3 HSMC 18HSM69A Soft skills Humanities 1 2 3 Total 13 2 10 27 | PCC 18CV61 Design of Steel Structures 3 2 3 50 PCC 18CV62 Advanced Geotechnical Engineering 3 3 50 PEC 18CV631 Highway Engineering 3 3 50 PEC 18CV632 Traffic Engineering 3 3 50 OEC 18CV641 Air Pollution & Control Engineering 3 3 50 PCC 18CVL65 Extensive Survey Lab 2 3 50 PCC 18CVL66 Software Application Lab 2 3 50 PCC 18CVL67 Field Training Lab 2 3 50 MP 18PR68 Project-VI 2 3 50 HSMC 18HSM69A Soft skills Humanities 1 2 3 50 Total 13 2 10 27 450 | PCC 18CV61 Design of Steel Structures 3 2 3 50 50 PCC 18CV62 Advanced Geotechnical Engineering 3 3 50 50 PEC 18CV631 Highway Engineering 3 3 50 50 PEC 18CV632 Traffic Engineering 3 3 50 50 OEC 18CV641 Air Pollution & Control 3 3 50 50 PCC 18CVL65 Extensive Survey Lab 2 3 50 50 PCC 18CVL66 Software Application Lab 2 3 50 50 PCC 18CVL67 Field Training Lab 2 3 50 50 MP 18PR68 Project-VI 2 3 50 50 HSMC 18HSM69A Soft skills Humanities 1 2 3 50 50 | PCC 18CV61 Design of Steel Structures 3 2 3 50 50 100 PCC 18CV62 Advanced Geotechnical Engineering 3 3 50 50 100 PEC 18CV631 Highway Engineering 3 3 50 50 100 OEC 18CV632 Traffic Engineering 3 3 50 50 100 OEC 18CV641 Air Pollution & Control 3 3 50 50 100 PCC 18CVL642 Environmental Engineering 3 2 3 50 50 100 PCC 18CVL65 Extensive Survey Lab 2 3 50 50 100 PCC 18CVL66 Software Application Lab 2 3 50 50 100 MP 18PR68 Project-VI 2 3 50 50 100 HSMC 18HSM69A Soft skills Humanities 1 2 3 |

PCC-Professional Core, PEC- Professional Elective, OEC- Open Elective, HSMC-Humanity and Social Science, MP-Mini Project

Scheme of Teaching and Examination 2018-19

Outcome Based Education(OBE) and Choice Based Credit System (CBCS)

(Effective from the academic year 2021-22)

VII SEMESTER (Department of Civil Engineering)

| Sl.No | Committee | or Colo | Common Titale | pt. & Paper Board | Teaching | Hours/wee | ı | | Exam | ination | | Credits |
|-------|-----------|---------|-----------------------------------------------------|-----------------------------------------|----------|-----------|----|-------------------|----------|-----------|----------------|---------|
| Sirvo | Cour | se Code | Course Title | Teaching Dept. & Paper Setting Board | L | Т | Р | Duration in hours | CE Marks | SEE Marks | Total Marks | Cre |
| 1 | PCC | 18CV71 | Estimation Costing & Contract Management | | 3 | 2 | | 3 | 50 | 50 | 100 | 04 |
| 2 | PCC | 18CV72 | Design of RCC and Steel Structures | | 3 | 2 | | 3 | 50 | 50 | 100 | 04 |
| 3 | PEC | 18CV731 | Railways, Harbour, Tunnel & Airports | | 3 | | | 3 | 50 | 50 | 100 | 03 |
| 3 | PEC | 18CV732 | Pavement Design | | 3 | | | 3 | 30 | 30 | 100 | 03 |
| 4 | OEC | 18CV741 | Municipal and Industrial Waste Water Engineering | | 3 | | | 3 | 50 | 50 | 100 | 03 |
| | | 18CV742 | Hydrology & Irrigation Engineering | | | | | | | | | |
| 5 | PCC | 18CVL75 | Environmental Engineering Lab | | | | 2 | 3 | 50 | 50 | 100 | 01 |
| 6 | PCC | 18CVL76 | Computer Aided Detailing of Structure Lab | | | | 2 | 3 | 50 | 50 | 100 | 01 |
| 7 | PEC | 18CVL77 | Civil Engineering Workshop practice lab | | | | 2 | 3 | 50 | 50 | 100 | 01 |
| 8 | MP | 18PRJ78 | Research Project-VII / field project | | | | 2 | 2 | 50 | 50 | 100 | 01 |
| 9 | HSMC | 18HSM79 | Industrial Psychology & Organizational Behaviour | | | | 2 | 2 | 50 | 50 | 100 | 01 |
| | | | Total | | 12 | 4 | 10 | 25 | 450 | 450 | 900 | 19 |

PCC-Professional Core, PEC- Professional Elective, OEC- Open Elective, HSMC-Humanity and Social Science

Scheme of Teaching and Examination 2018-19

Outcome Based Education(OBE) and Choice Based Credit System (CBCS)

(Effective from the academic year 2021-22)

VIII SEMESTER B.Tech (Department of Civil Engineering)

| Cours | o Codo | Course Title | Dept. | Teaching Hours/we ek | | Exami | nation | | Credits |
|----------------|---------------------------|---------------------------------------|--------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|
| Cours | Teaching Paper Sett | L/T/P | Duration in hours | CIE Marks | SEE Marks | Total Marks | Cre | | |
| PROJECT | 18PRJ81 | Research project / Field project-VIII | | 4 | 3 | 50 | 50 | 100 | 10 |
| INTERNS HIP | 18CVI82 | Internship | | 08 | 3 | 50 | 50 | 100 | 08 |
| | | Total | | 12 | 6 | 100 | 100 | 200 | 18 |
|] | PROJECT INTERNS HIP | INTERNS HIP 18CVI82 | PROJECT 18PRJ81 Research project / Field project-VIII INTERNS HIP 18CVI82 Internship | PROJECT 18PRJ81 Research project / Field project-VIII INTERNS HIP 18CVI82 Internship Total | PROJECT 18PRJ81 Research project / Field project-VIII 4 INTERNS HIP 18CVI82 Internship 08 Total 12 | PROJECT 18PRJ81 Research project / Field project-VIII 4 3 INTERNS HIP 18CVI82 Internship 08 3 Total 12 | PROJECT 18PRJ81 Research project / Field project-VIII 4 3 50 INTERNS HIP 18CVI82 Internship 08 3 50 Total 12 6 100 | PROJECT 18PRJ81 Research project / Field project-VIII 4 3 50 50 INTERNS HIP 18CVI82 Internship 08 3 50 50 Total 12 6 100 100 | PROJECT 18PRJ81 Research project / Field project-VIII 4 3 50 50 100 INTERNS HIP Total 08 3 50 50 100 Total 12 6 100 100 200 |