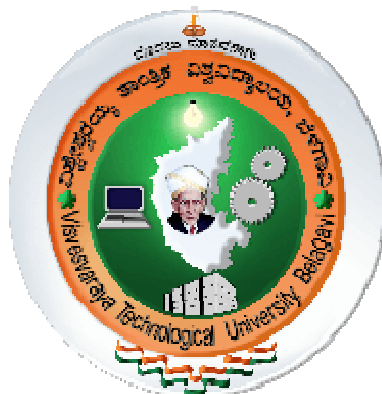


VISVESVARAYA TECHNOLOGICAL UNIVERSITY BELAGAVI



Scheme of Teaching and Examination and Syllabus B.E. CIVIL ENGINEERING (Effective from Academic year 2018-19)

General Notes:

1. Question Paper Pattern for Theory Courses:
 - The question paper will have TEN questions, Each full question carries 20 marks, There will be two full questions (with a maximum of four subquestions) from each module. Each full question will have sub questions covering all the topics under a module.
 - Students will have to answer 5 full questions, selecting one full question from each module.
2. The teaching learning process should be as per the Choice Based Credit System
3. All Civil Engineering Departments should have a "CIVIL ENGINEERING MUSEUM" with collections like models, charts, material samples, fixtures and fittings etc. which assist effective teaching learning process.
4. The teaching learning process may be planned to develop capabilities, competencies and skills required for career development based on course beginning and course end surveys.
5. Course objectives, course outcomes and RBT levels given under each course in the syllabus are indicative/suggestive. The faculty can set them appropriately according to their lesson/ course plan.
6. The course coordinators/teachers/instructors are informed to deliberate in the faculty meeting with module coordinator, program coordinator along with the stake holders to develop the respective lesson/ course plans.
7. The department advisory board may make suitable changes to the course objectives, course outcomes according to their finalized course plans.
8. The faculty should complement the teaching with case studies and field visits wherever required.
9. At least one faculty development program to be conducted to compliment teaching learning process by the department in a year

VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI
Scheme of Teaching and Examination 2018 – 19
Outcome Based Education(OBE) and Choice Based Credit System (CBCS)
(Effective from the academic year 2018 – 19)

Programme: CIVIL ENGINEERING

III SEMESTER

| Sl. No | Course and Course Code | | Course Title | Teaching Department | Teaching Hours /Week | | | Examination | | | | Credits |
|--------------|------------------------|-----------|---|---------------------|----------------------|-----------|--------------------|-------------------|------------|------------|-------------|-----------|
| | | | | | Theory Lecture | Tutorial | Practical/ Drawing | Duration in hours | CIE Marks | SEE Marks | Total Marks | |
| | | | | | L | T | P | | | | | |
| 1 | BSC | 18MAT31 | Transform Calculus, Fourier Series and Numerical Techniques | Mathematics | 2 | 2 | -- | 03 | 40 | 60 | 100 | 3 |
| 2 | PCC | 18CV32 | Strength of Materials | Civil Engg. | 3 | 2 | -- | 03 | 40 | 60 | 100 | 4 |
| 3 | PCC | 18CV33 | Fluid Mechanics | Civil Engg. | 3 | 0 | -- | 03 | 40 | 60 | 100 | 3 |
| 4 | PCC | 18CV34 | Building Materials and Construction | Civil Engg. | 3 | 0 | -- | 03 | 40 | 60 | 100 | 3 |
| 5 | PCC | 18CV35 | Basic Surveying | Civil Engg. | 3 | 0 | -- | 03 | 40 | 60 | 100 | 3 |
| 6 | PCC | 18CV36 | Engineering Geology | Geology | 3 | 0 | -- | 03 | 40 | 60 | 100 | 3 |
| 7 | PCC | 18CVL37 | Computer Aided Building Planning & Drawing | Civil Engg. | -- | 2 | 2 | 03 | 40 | 60 | 100 | 2 |
| 8 | PCC | 18CVL38 | Building Materials Testing Laboratory | Civil Engg. | -- | 2 | 2 | 03 | 40 | 60 | 100 | 2 |
| 9 | HSMC | 18KVK39 | Vyavaharika Kannada (Kannada for communication)/ | HSMC | -- | 2 | -- | -- | 100 | -- | 100 | 1 |
| | | OR | | | | | | | | | | |
| | | 18KAK39 | Aadalitha Kannada (Kannada for Administration) | | | | | | | | | |
| | | OR | | | | | | | | | | |
| | | 18CPC39 | Constitution of India, Professional Ethics and Cyber Law | | | | | 02 | 40 | 60 | | |
| TOTAL | | | | | 17 | 08 | 04 | 24 | 420 | 480 | 900 | 24 |
| | | | | | OR | OR | | OR | OR | OR | | |
| | | | | | 18 | 10 | | 26 | 360 | 540 | | |

Note: BSC: Basic Science, PCC: Professional Core, HSMC: Humanity and Social Science, NCMC: Non-credit mandatory course.

18KVK39Vyavaharika Kannada (Kannada for communication) is for non-Kannada speaking, reading and writing students and 18KAK39 Aadalitha Kannada (Kannada for Administration) is for students who speak, read and write Kannada.

Course prescribed to lateral entry Diploma holders admitted to III semester of Engineering programs

| | | | | | | | | | | | | |
|---|------|------------|----------------------------|-------------|----|----|----|----|----|----|-----|---|
| 10 | NCMC | 18MATDIP31 | Additional Mathematics - I | Mathematics | 02 | 01 | -- | 03 | 40 | 60 | 100 | 0 |
| (a)The mandatory non – credit courses Additional Mathematics I and II prescribed for III and IV semesters respectively, to the lateral entry Diploma holders admitted to III semester of BE/B. Tech programs, shall attend the classes during the respective semesters to complete all the formalities of the course and appear for the University examination. In case, any student fails to register for the said course/fails to secure the minimum 40 % of the prescribed CIE marks, he/she shall be deemed to have secured F grade. In such a case, the students have to fulfill the requirements during subsequent semester/s to appear for | | | | | | | | | | | | |

SEE.

(b) These Courses shall not be considered for vertical progression, but completion of the courses shall be mandatory for the award of degree.

Courses prescribed to lateral entry B. Sc degree holders admitted to III semester of Engineering programs

Lateral entrant students from B.Sc. Stream, shall clear the non-credit courses Engineering Graphics and Elements of Civil Engineering and Mechanics of the First Year Engineering Programme. These Courses shall not be considered for vertical progression, but completion of the courses shall be mandatory for the award of degree.

AICTE Activity Points to be earned by students admitted to BE/B. Tech/B. Plan day college programme (For more details refer to Chapter 6, AICTE Activity Point Programme, Model Internship Guidelines):

Over and above the academic grades, every Day College regular student admitted to the 4 years Degree programme and every student entering 4 years Degree programme through lateral entry, shall earn 100 and 75 Activity Points respectively for the award of degree through AICTE Activity Point Programme. Students transferred from other Universities to fifth semester are required to earn 50 Activity Points from the year of entry to VTU. The Activity Points earned shall be reflected on the student's eighth semester Grade Card.

The activities can be spread over the years, anytime during the semester weekends and holidays, as per the liking and convenience of the student from the year of entry to the programme. However, minimum hours' requirement should be fulfilled. Activity Points (non-credit) have no effect on SGPA/CGPA and shall not be considered for vertical progression.

In case students fail to earn the prescribed activity Points, Eighth semester Grade Card shall be issued only after earning the required activity Points. Students shall be admitted for the award of degree only after the release of the Eighth semester Grade Card.

VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI
Scheme of Teaching and Examination 2018 – 19
Outcome Based Education(OBE) and Choice Based Credit System (CBCS)
(Effective from the academic year 2018 – 19)

Programme: CIVIL ENGINEERING

IV SEMESTER

| Sl. No | Course and Course code | | Course Title | Teaching Department | Teaching Hours /Week | | | Examination | | | Credits | |
|--------------|------------------------|------------|--|---------------------|----------------------|-----------|--------------------|-------------------|------------|------------|------------|-------------|
| | | | | | Theory Lecture | Tutorial | Practical/ Drawing | Duration in hours | CIE Marks | SEE Marks | | Total Marks |
| | | | | | L | T | P | | | | | |
| 1 | BSC | 18MAT41 | Complex Analysis, Probability And Statistical Methods | Mathematics | 2 | 2 | -- | 03 | 40 | 60 | 100 | 3 |
| 2 | PCC | 18CV42 | Analysis of Determinate Structures | Civil Engg. | 3 | 2 | -- | 03 | 40 | 60 | 100 | 4 |
| 3 | PCC | 18CV43 | Applied Hydraulics | Civil Engg. | 3 | 0 | -- | 03 | 40 | 60 | 100 | 3 |
| 4 | PCC | 18CV44 | Concrete Technology | Civil Engg. | 3 | 0 | -- | 03 | 40 | 60 | 100 | 3 |
| 5 | PCC | 18CV45 | Advanced Surveying | Civil Engg. | 3 | 0 | -- | 03 | 40 | 60 | 100 | 3 |
| 6 | PCC | 18CV46 | Water Supply & Treatment Engineering | Civil Engg. | 3 | 0 | -- | 03 | 40 | 60 | 100 | 3 |
| 7 | PCC | 18CVL47 | Engineering Geology Laboratory | Geology | -- | 2 | 2 | 03 | 40 | 60 | 100 | 2 |
| 8 | PCC | 18CVL48 | Fluid Mechanics and Hydraulic Machines Laboratory | Civil Engg. | -- | 2 | 2 | 03 | 40 | 60 | 100 | 2 |
| 9 | HSMC | 18KVK39/49 | Vyavaharika Kannada (Kannada for Communication)/ | HSMC | -- | 2 | -- | -- | 100 | -- | 100 | 1 |
| | | OR | | | | | | | | | | |
| | | 18KAK39/49 | Aadalitha Kannada (Kannada for Administration) | | | | | | | | | |
| | | OR | | | | | | | | | | |
| | | 18CPC39/49 | Constitution of India, Professional Ethics and Cyber Law | | 1 | -- | -- | 02 | 40 | 60 | | |
| TOTAL | | | | | 17 | 08 | 04 | 24 | 420 | 480 | 900 | 24 |
| | | | | | OR | OR | | OR | OR | OR | | |
| | | | | | 18 | 10 | | 26 | 360 | 540 | | |

Note: BSC: Basic Science, PCC: Professional Core, HSMC: Humanity and Social Science, NCMC: Non-credit mandatory course.

18KVK39/49Vyavaharika Kannada (Kannada for communication) is for non-Kannada speaking, reading and writing students and 18KAK39/49Aadalitha Kannada (Kannada for Administration) is for students who speak, read and write Kannada.

Course prescribed to lateral entry Diploma holders admitted to III semester of Engineering programs

| | | | | | | | | | | | | |
|----|------|------------|-----------------------------|-------------|----|----|----|----|----|----|-----|---|
| 10 | NCMC | 18MATDIP41 | Additional Mathematics - II | Mathematics | 02 | 01 | -- | 03 | 40 | 60 | 100 | 0 |
|----|------|------------|-----------------------------|-------------|----|----|----|----|----|----|-----|---|

(a)The mandatory non – credit courses Additional Mathematics I and II prescribed for III and IV semesters respectively, to the lateral entry Diploma holders admitted to III semester of BE/B. Tech programs, shall attend the classes during the respective semesters to complete all the formalities of the course and appear for the University examination. In case, any student fails to register for the said course/fails to secure the minimum 40 % of the prescribed CIE marks, he/she shall be deemed to have secured F grade. In such a case, the students have to fulfill the requirements during subsequent semester/s to appear for SEE.

(b)These Courses shall not be considered for vertical progression, but completion of the courses shall be mandatory for the award of degree.

Courses prescribed to lateral entry B. Sc degree holders admitted to III semester of Engineering programs

Lateral entrant students from B.Sc. Stream, shall clear the non-credit courses Engineering Graphics and Elements of Civil Engineering and Mechanics of the First Year Engineering Programme. These Courses shall not be considered for vertical progression, but completion of the courses shall be mandatory for the award of degree.

AICTE activity Points: In case students fail to earn the prescribed activity Points, Eighth semester Grade Card shall be issued only after earning the required activity Points. Students shall be admitted for the award of degree only after the release of the Eighth semester Grade Card.

VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI
Scheme of Teaching and Examination 2018 – 19
Outcome Based Education(OBE) and Choice Based Credit System (CBCS)
(Effective from the academic year 2018 – 19)

Programme: CIVIL ENGINEERING

V SEMESTER

| Sl. No | Course and Course code | | Course Title | Teaching Department | Teaching Hours /Week | | | Examination | | | Credits | |
|--------------|------------------------|---------|--|--|----------------------|-----------|--------------------|-------------------|------------|------------|------------|-------------|
| | | | | | Theory Lecture | Tutorial | Practical/ Drawing | Duration in hours | CIE Marks | SEE Marks | | Total Marks |
| | | | | | L | T | P | | | | | |
| 1 | HSMC | 18CV51 | Construction Management & Entrepreneurship | Civil Engg. | 2 | 2 | -- | 03 | 40 | 60 | 100 | 3 |
| 2 | PCC | 18CV52 | Analysis of Indeterminate Structures | Civil Engg. | 3 | 2 | -- | 03 | 40 | 60 | 100 | 4 |
| 3 | PCC | 18CV53 | Design of RC Structural Elements | Civil Engg. | 3 | 2 | -- | 03 | 40 | 60 | 100 | 4 |
| 4 | PCC | 18CV54 | Basic Geotechnical Engineering | Civil Engg. | 3 | -- | -- | 03 | 40 | 60 | 100 | 3 |
| 5 | PCC | 18CV55 | Municipal Wastewater Engineering | Civil Engg. | 3 | -- | -- | 03 | 40 | 60 | 100 | 3 |
| 6 | PCC | 18CV56 | Highway Engineering | Civil Engg. | 3 | -- | -- | 03 | 40 | 60 | 100 | 3 |
| 7 | PCC | 18CVL57 | Surveying Practice | Civil Engg. | -- | 2 | 2 | 03 | 40 | 60 | 100 | 2 |
| 8 | PCC | 18CVL58 | Concrete and Highway Materials Laboratory | Civil Engg. | -- | 2 | 2 | 03 | 40 | 60 | 100 | 2 |
| 9 | HSMC | 18CIV59 | Environmental Studies | Civil/Environmental | 1 | -- | -- | 02 | 40 | 60 | 100 | 1 |
| | | | | [Paper setting Board: Civil Engineering] | | | | | | | | |
| TOTAL | | | | | 18 | 10 | 04 | 26 | 360 | 540 | 900 | 25 |

Note: PCC: Professional Core, HSMC: Humanity and Social Science.

AICTE activity Points: In case students fail to earn the prescribed activity Points, Eighth semester Grade Card shall be issued only after earning the required activity Points. Students shall be admitted for the award of degree only after the release of the Eighth semester Grade Card.

VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI
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Outcome Based Education(OBE) and Choice Based Credit System (CBCS)
(Effective from the academic year 2018 – 19)

Programme: CIVIL ENGINEERING

VI SEMESTER

| Sl. No | Course and Course code | | Course Title | Teaching Department | Teaching Hours /Week | | | Examination | | | | Credits |
|--------------|------------------------|----------|--------------------------------------|---|----------------------|-----------|--------------------|-------------------|------------|------------|-------------|-----------|
| | | | | | Theory Lecture | Tutorial | Practical/ Drawing | Duration in hours | CIE Marks | SEE Marks | Total Marks | |
| | | | | | L | T | P | | | | | |
| 1 | PCC | 18CV61 | Design of Steel Structural Elements | Civil Engg. | 3 | 2 | -- | 03 | 40 | 60 | 100 | 4 |
| 2 | PCC | 18CV62 | Applied Geotechnical Engineering | Civil Engg. | 3 | 2 | -- | 03 | 40 | 60 | 100 | 4 |
| 3 | PCC | 18CV63 | Hydrology and Irrigation Engineering | Civil Engg. | 3 | 2 | -- | 03 | 40 | 60 | 100 | 4 |
| 4 | PEC | 18CV64X | Professional Elective -1 | Civil Engg. | 3 | -- | -- | 03 | 40 | 60 | 100 | 3 |
| 5 | OEC | 18CV65X | Open Elective -A | Civil Engg. | 3 | -- | -- | 03 | 40 | 60 | 100 | 3 |
| 6 | PCC | 18CVL66 | Software Application Laboratory | Civil Engg. | -- | 2 | 2 | 03 | 40 | 60 | 100 | 2 |
| 7 | PCC | 18CVL67 | Environmental Engineering Laboratory | Civil Engg. | -- | 2 | 2 | 03 | 40 | 60 | 100 | 2 |
| 8 | EP | 18CVEP68 | Extensive Survey project | Civil Engg. | -- | 2 | 2 | 03 | 40 | 60 | 100 | 2 |
| 9 | Internship | -- | Internship | To be carried out during the vacation/s of VI and VII semesters and /or VII and VIII semesters. | | | | | | | | |
| TOTAL | | | | | 15 | 12 | 06 | 24 | 320 | 480 | 800 | 24 |

Note: PCC: Professional core, PEC: Professional Elective, OE: Open Elective, MP: Mini-project.

Professional Elective -1

| Course code under 18CV64X | |
|---------------------------|--|
| 18CV641 | Matrix Method of Structural Analysis |
| 18CV642 | Solid Waste Management |
| 18CV643 | Alternate Building Materials |
| 18CV644 | Ground Improvement Techniques |
| 18CV645 | Railway, Harbours, Tunnelling & Airports |

Open Elective -A

| Course code under 18CV65X | |
|---------------------------|------------------------------|
| 18CV651 | Remote Sensing & GIS |
| 18CV652 | Traffic Engineering |
| 18CV653 | Occupational Health & Safety |

| | |
|---|--|
| 18CV654 | Sustainability Concepts in Civil Engineering |
| <p>Students can select any one of the open electives offered by other Departments except those that are offered by the parent Department (Please refer to the list of open electives under 18XX65X).</p> <p>Selection of an open elective shall not be allowed if,</p> <ul style="list-style-type: none"> • The candidate has studied the same course during the previous semesters of the programme. • The syllabus content of open elective is similar to that of the Departmental core courses or professional electives. • A similar course, under any category, is prescribed in the higher semesters of the programme. <p>Registration to electives shall be documented under the guidance of Programme Coordinator/ Advisor/Mentor.</p> | |
| <p>Internship: All the students admitted to III year of BE/B. Tech shall have to undergo mandatory internship of 4 weeks during the vacation of VI and VII semesters and /or VII and VIII semesters. A University examination shall be conducted during VIII semester and the prescribed credit shall be included in VIII semester. Internship shall be considered as a head of passing and shall be considered for the award of degree. Those, who do not take-up/complete the internship shall be declared fail and shall have to complete during subsequent University examination after satisfying the internship requirements.</p> | |
| <p>AICTE activity Points: In case students fail to earn the prescribed activity Points, Eighth semester Grade Card shall be issued only after earning the required activity Points. Students shall be admitted for the award of degree only after the release of the Eighth semester Grade Card.</p> | |

VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI
Scheme of Teaching and Examination 2018 – 19
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(Effective from the academic year 2018 – 19)

Programme: CIVIL ENGINEERING

VII SEMESTER

| Sl. No | Course and Course code | | Course Title | Teaching Department | Teaching Hours /Week | | | Examination | | | Credits | |
|--|------------------------|--------------------------------------|---|--|----------------------|-----------|--------------------|-------------------|------------|------------|-----------|-------------|
| | | | | | Theory Lecture | Tutorial | Practical/ Drawing | Duration in hours | CIE Marks | SEE Marks | | Total Marks |
| | | | | | L | T | P | | | | | |
| 1 | PCC | 18CV71 | Quality Surveying and Contract Management | Civil Engg. | 3 | -- | -- | 03 | 40 | 60 | 100 | 3 |
| 2 | PCC | 18CV72 | Design of RCC and Steel Structures | Civil Engg. | 3 | -- | -- | 03 | 40 | 60 | 100 | 3 |
| 3 | PEC | 18CV73X | Professional Elective - 2 | Civil Engg. | 3 | -- | -- | 03 | 40 | 60 | 100 | 3 |
| 4 | PEC | 18CV74X | Professional Elective - 3 | Civil Engg. | 3 | -- | -- | 03 | 40 | 60 | 100 | 3 |
| 5 | OEC | 18CV75X | Open Elective -B | Civil Engg. | 3 | -- | -- | 03 | 40 | 60 | 100 | 3 |
| 6 | PCC | 18CVL76 | Computer Aided Detailing of Structures | Civil Engg. | -- | 2 | 2 | 03 | 40 | 60 | 100 | 2 |
| 7 | PCC | 18CVL77 | Geotechnical Engineering Laboratory | Civil Engg. | -- | 2 | 2 | 03 | 40 | 60 | 100 | 2 |
| 8 | Project | 18CVP78 | Project Work Phase - 1 | | -- | -- | 2 | -- | 100 | -- | 100 | 1 |
| 9 | Internship | -- | Internship | (If not completed during the vacation of VI and VII semesters, it shall be carried out during the vacation of VII and VIII semesters) | | | | | | | | |
| TOTAL | | | | | 15 | 04 | 06 | 21 | 380 | 420 | 00 | 20 |
| Note: PCC: Professional core, PEC: Professional Elective. | | | | | | | | | | | | |
| Professional Elective - 2 | | | | | | | | | | | | |
| Course code under 18CV73X | | Course Title | | | | | | | | | | |
| 18CV731 | | Theory of Elasticity | | | | | | | | | | |
| 18CV732 | | Air Pollution and Control | | | | | | | | | | |
| 18CV733 | | Pavement Materials & Construction | | | | | | | | | | |
| 18CV734 | | Ground Water Hydraulics | | | | | | | | | | |
| 18CV735 | | Masonry Structures | | | | | | | | | | |
| Professional Electives - 3 | | | | | | | | | | | | |
| Course code under 18CV74X | | Course Title | | | | | | | | | | |
| 18CV741 | | Earthquake Engineering | | | | | | | | | | |
| 18CV742 | | Design Concepts of Building Services | | | | | | | | | | |
| 18CV743 | | Reinforced Earth Structures | | | | | | | | | | |

| | |
|---|---|
| 18CV744 | Design of Hydraulic Structures |
| 18CV745 | Urban Transport Planning |
| Open Elective -B | |
| Course code under 18CV75X | Course Title |
| 18CV751 | Finite Element Method |
| 18CV752 | Numerical Methods and Applications |
| 18CV753 | Environmental Protection and Management |
| <p>Students can select any one of the open electives offered by other Departments except those that are offered by the parent Department (Please refer to the list of open electives under 18XX75X).</p> <p>Selection of an open elective shall not be allowed if,</p> <ul style="list-style-type: none"> • The candidate has studied the same course during the previous semesters of the programme. • The syllabus content of open elective is similar to that of the Departmental core courses or professional electives. • A similar course, under any category, is prescribed in the higher semesters of the programme. <p>Registration to electives shall be documented under the guidance of Programme Coordinator/ Advisor/Mentor.</p> | |
| <p>Project work: Based on the ability/abilities of the student/s and recommendations of the mentor, a single discipline or a multidisciplinary project can be assigned to an individual student or to a group having not more than 4 students. In extraordinary cases, like the funded projects requiring students from different disciplines, the project student strength can be 5 or 6.</p> <p>CIE procedure for Project Work Phase - 1: (i) Single discipline: The CIE marks shall be awarded by a committee consisting of the Head of the concerned Department and two senior faculty members of the Department, one of whom shall be the Guide. The CIE marks awarded for the project work phase -1, shall be based on the evaluation of the project work phase -1 Report (covering Literature Survey, Problem identification, Objectives and Methodology), project presentation skill and question and answer session in the ratio 50:25:25. The marks awarded for the Project report shall be the same for all the batch mates.</p> <p>(ii) Interdisciplinary: Continuous Internal Evaluation shall be group wise at the college level with the participation of all guides of the college. Participation of external guide/s, if any, is desirable. The CIE marks awarded for the project work phase -1, shall be based on the evaluation of project work phase -1 Report (covering Literature Survey, Problem identification, Objectives and Methodology), project presentation skill and question and answer session in the ratio 50:25:25. The marks awarded for the project report shall be the same for all the batch mates.</p> <p>Internship: All the students admitted to III year of BE/B. Tech shall have to undergo mandatory internship of 4 weeks during the vacation of VI and VII semesters and /or VII and VIII semesters. A University examination shall be conducted during VIII semester and the prescribed credit shall be included in VIII semester. Internship shall be considered as a head of passing and shall be considered for the award of degree. Those, who do not take-up/complete the internship shall be declared fail and shall have to complete during subsequent University examination after satisfying the internship requirements.</p> | |
| <p>AICTE activity Points: In case students fail to earn the prescribed activity Points, Eighth semester Grade Card shall be issued only after earning the required activity Points. Students shall be admitted for the award of degree only after the release of the Eighth semester Grade Card.</p> | |

VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI
Scheme of Teaching and Examination 2018 – 19
Outcome Based Education(OBE) and Choice Based Credit System (CBCS)
(Effective from the academic year 2018 – 19)

Programme: CIVIL ENGINEERING

VIII SEMESTER

| Sl. No | Course and Course code | | Course Title | Teaching Department | Teaching Hours /Week | | | Examination | | | | |
|--------------|------------------------|---------|---------------------------------|--|----------------------|-----------|--------------------|-------------------|------------|------------|-------------|-----------|
| | | | | | Theory Lecture | Tutorial | Practical/ Drawing | Duration in hours | CIE Marks | SEE Marks | Total Marks | Credits |
| | | | | | L | T | P | | | | | |
| 1 | PCC | 18CV81 | Design of Pre-stressed Concrete | Civil Engg. | 3 | -- | -- | 03 | 40 | 60 | 100 | 3 |
| 2 | PEC | 18CV82X | Professional Elective - 4 | Civil Engg. | 3 | -- | -- | 03 | 40 | 60 | 100 | 3 |
| 3 | Project | 18CVP83 | Project Work Phase - 2 | Civil Engg. | -- | -- | 16 | 03 | 40 | 60 | 100 | 8 |
| 4 | Seminar | 18CVS84 | Technical Seminar | Civil Engg. | -- | -- | 2 | 03 | 100 | -- | 100 | 1 |
| 5 | Internship | 18CVI85 | Internship | Completed during the vacation/s of VI and VII semesters and /or VII and VIII semesters.) | | | | 03 | 40 | 60 | 100 | 3 |
| TOTAL | | | | | 06 | -- | 18 | 15 | 260 | 240 | 500 | 18 |

Note: PCC: Professional Core, PEC: Professional Elective.

Professional Electives - 4

| Course code under 18CV82X | Course Title |
|---------------------------|---------------------------------|
| 18CV821 | Bridge Engineering |
| 18CV822 | Prefabricated Structures |
| 18CV823 | Advanced Foundation Engineering |
| 18CV824 | Rehabilitation & Retrofitting |
| 18CV825 | Pavement Design |

Project Work

CIE procedure for Project Work Phase - 2:

(i) Single discipline: The CIE marks shall be awarded by a committee consisting of the Head of the concerned Department and two senior faculty members of the Department, one of whom shall be the Guide.

The CIE marks awarded for the project work phase -2, shall be based on the evaluation of project work phase -2 Report, project presentation skill and question and answer session in the ratio 50:25:25. The marks awarded for the project report shall be the same for all the batch mates.

(ii) Interdisciplinary: Continuous Internal Evaluation shall be group wise at the college level with the participation of all guides of the college. Participation of external guide/s, if any, is desirable.

The CIE marks awarded for the project work phase -2, shall be based on the evaluation of project work phase -2 Report, project presentation skill and question and answer session in the ratio 50:25:25. The marks awarded for the project report shall be the same for all the batch mates.

SEE for Project Work Phase - 2:

(i) Single discipline: Contribution to the project and the performance of each group member shall be assessed individually in semester end examination (SEE) conducted at the department.

(ii) Interdisciplinary: Contribution to the project and the performance of each group member shall be assessed individually in semester end examination (SEE) conducted separately at the departments to which the student/s belongs to.

Internship: Those, who have not pursued /completed the internship, shall be declared as fail and have to complete during subsequent University examination after satisfying the internship requirements.

AICTE activity Points: In case students fail to earn the prescribed activity Points, Eighth semester Grade Card shall be issued only after earning the required activity Points. Students shall be admitted for the award of degree only after the release of the Eighth semester Grade Card.

Activity points of the students who have earned the prescribed AICTE activity Points shall be sent the University along with the CIE marks of 8th semester. In case of students who have not satisfied the AICTE activity Points at the end of eighth semester, the column under activity Points shall be marked NSAP (Not Satisfied Activity Points).