

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)

| 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 | |
| | | | | | | | | | | | | |
| 1 | BSC | 18MAT31 | Transform Calculus, Fourier Series and Numerical Techniques (Common to all Branches) | Mathematics | 2 | 2 | -- | 03 | 40 | 60 | 100 | 3 |
| 2 | PCC | 18EE32 | Electric Circuit Analysis | EEE | 3 | 2 | -- | 03 | 40 | 60 | 100 | 4 |
| 3 | PCC | 18EE33 | Transformers and Generators | EEE | 3 | 0 | -- | 03 | 40 | 60 | 100 | 3 |
| 4 | PCC | 18 EE 34 | Analog Electronic Circuits | EEE | 2 | 2 | -- | 03 | 40 | 60 | 100 | 3 |
| 5 | PCC | 18 EE 35 | Digital System Design | EEE | 3 | 0 | -- | 03 | 40 | 60 | 100 | 3 |
| 6 | PCC | 18 EE 36 | Electrical and Electronic Measurements | EEE | 3 | 0 | -- | 03 | 40 | 60 | 100 | 3 |
| 7 | PCC | 18 EE L37 | Electrical Machines Laboratory -1 | EEE | -- | 2 | 2 | 03 | 40 | 60 | 100 | 2 |
| 8 | PCC | 18 EE L38 | Electronics Laboratory | EEE | -- | 2 | 2 | 03 | 40 | 60 | 100 | 2 |
| 9 | HSMC | 18KVK39/49 | Vyavaharika Kannada (Kannada for communication)/ | HSMC | -- | 2 | -- | -- | 100 | -- | 100 | 1 |
| | | 18KAK39/49 | Aadalitha Kannada (Kannada for Administration) | | | | | | | | | |
| | | OR | | | | | | | | | | |
| | | 18CPC39 | Constitution of India, Professional Ethics and Cyber Law | | | | | | | | | |
| TOTAL | | | | | 16 | 10 | 04 | 24 | 420 | 480 | 900 | 24 |
| | | | | | OR | OR | | OR | OR | OR | | |
| | | | | | 17 | 12 | | 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.

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| 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 | 18 EE42 | Power Generation and Economics | EEE | 3 | 0 | -- | 03 | 40 | 60 | 100 | 3 |
| 3 | PCC | 18 EE43 | Transmission and Distribution | EEE | 3 | 2 | -- | 03 | 40 | 60 | 100 | 4 |
| 4 | PCC | 18 EE44 | Electric Motors | EEE | 3 | 0 | -- | 03 | 40 | 60 | 100 | 3 |
| 5 | PCC | 18 EE45 | Electromagnetic Field Theory | EEE | 2 | 2 | -- | 03 | 40 | 60 | 100 | 3 |
| 6 | PCC | 18 EE46 | Operational Amplifiers and Linear ICs | EEE | 3 | 0 | -- | 03 | 40 | 60 | 100 | 3 |
| 7 | PCC | 18 EEL47 | Electrical Machines Laboratory -2 | EEE | -- | 2 | 2 | 03 | 40 | 60 | 100 | 2 |
| 8 | PCC | 18 EEL48 | Op- amp and Linear ICs Laboratory | EEE | -- | 2 | 2 | 03 | 40 | 60 | 100 | 2 |
| 9 | HSMC | 18KVK39/49 | Vyavaharika Kannada (Kannada for communication)/ | HSMC | -- | 2 | -- | -- | 100 | -- | 100 | 1 |
| | | 18KAK39/49 | Aadalitha Kannada (Kannada for Administration) | | | | | | | | | |
| | | OR | | | | | | | | | | |
| | | 18CPC49 | Constitution of India, Professional Ethics and Cyber Law | | | | | | | | | |
| TOTAL | | | | | 16 | 10 | | 24 | 420 | 480 | 900 | 24 |
| | | | | | OR | OR | 04 | OR | OR | OR | | |
| | | | | | 17 | 12 | | 26 | 360 | 540 | | |
| Examination is by objective type questions | | | | | | | | | | | | |
| 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 18KAK39/49 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 | 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. | | | | | | | | | | | | |