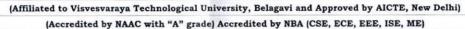


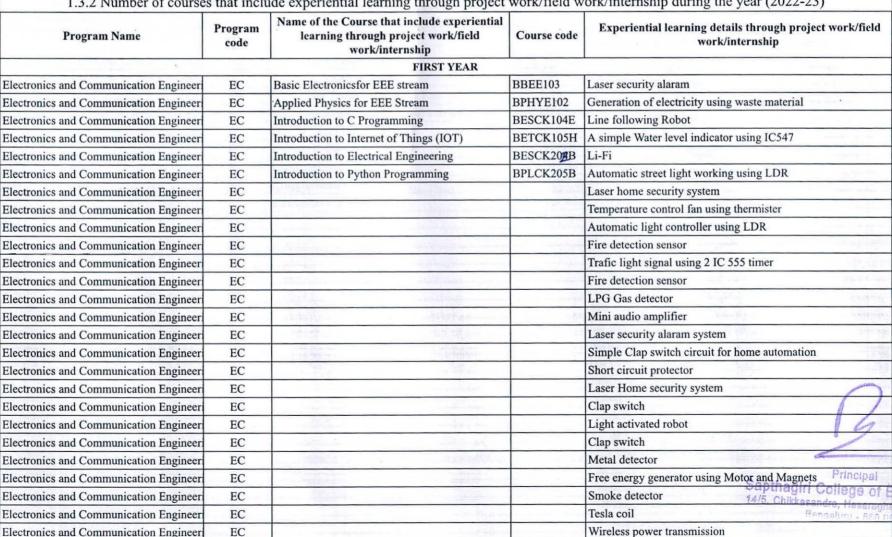
SRI SRINIVASA EDUCATIONAL AND CHARITABLE TRUST®

SAPTHAGIRI COLLEGE OF ENGINEERING



(An ISO 9001:2015 & ISO 14001:2015 Certified)

1.3.2 Number of courses that include experiential learning through project work/field work/internship during the year (2022-23)





ngineering

ta Main Road

| Electronics and Communication Engineer | EC | * 1 | | | CNN Based Object Recognit People | ion To Assist Visually impaired |
|--|---|--|---------|------------|--|---------------------------------|
| Electronics and Communication Engineer | EC | | Mari et | | Smart Shoes | |
| Electronics and Communication Engineer | EC | | | | IOT Based Probing Of Hidde | en Camera Using Rf Signals. |
| Electronics and Communication Engineer | EC | | MARIE | | Biometrically Secured Atm V | /igilance System |
| Electronics and Communication Engineer | EC | | | | IOT Based Smart Mirror Usi | ng Raspberry Pi. |
| Electronics and Communication Engineer | EC | 100 | | | A Machine Learning Method Kidney Disease. | ology For Diagonising Chronic |
| Electronics and Communication Engineer | EC | NV. | | | Skin Pixel Detection Using D | Deep Learning |
| Electronics and Communication Engineer | EC | | | | Crop Prediction Using Neura | l Network |
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| and the second second | | | | | HOD, I | Dept. of ECE |

Principal Sapthagiri College of Engineering 14/5, Chikkesendra, Hesaraghatta Main Road Bengaluru - 560 057

Visvesvaraya Technological University, Belagavi SchemeofTeaching andExaminations-2022 Outcome-Based Education(OBE)andChoiceBasedCreditSystem(CBCS) (Effectivefromtheacademicyear 2022-23)

| Sem | ester(Electr | ical & Electro | nics EngineeringStream) | (For Physi | | | | | | | | | |
|-----------|--------------|-----------------------|--|---|--------|----------|-----------------------|-------|----------------------|--------|-------|----------------|---------|
| | | | | | Tea | achingHo | urs/Wee | k | | Examin | ation | | |
| Sl. No | | ourse urseCode | CourseTitle | TD/PSB | Theory | Tutorial | Practical/ Drawing | SDA | Duration in hours | CIE | SEE | Total Marks | Credits |
| | | | | Marks. | L | T | P | S | Δ | | | | |
| 1 | *ASC(IC) | BMATE101 | Mathematics-I for EEE Streams | Maths | 2 | 2 | 2 | 0 | 03 | 50 | 50 | 100 | 04 |
| 2 | #ASC(IC) | ВРНҮЕ102 | Applied Physics for EEE Stream | PHY. | 2 | 2 | 2 | 0 | 03 | 50 | 50 | 100 | 04 |
| | | BEEE103 | # Elements of Electrical Engineering | | 2 | 2 | 0 | 0 | | | | | |
| 3 | ESC | | OR | EEE/ECE/TCE | | | R | | 03 | 50 | 50 | 100 | 03 |
| | | BBEE103 | ## Basic Electronicsfor EEE stream | | 3 | 0 | 0 | 0 | | | | | |
| 4 | ESC-I | BESCK104x | Engineering Science Course-I | Respective Engg Dept | 3 | 0 | 0 | 0 | 03 | 50 | 50 | 100 | 03 |
| | ETC-I | BETCK105x | Emerging Technology Course-I | | 3 | 0 | 0 | 0 | 03 | | | | |
| 5 | 2014 | | OR | Any Dept | | 1 | | 14" | | 50 | 50 | 100 | 03 |
| | PLC-I | BPLCK105x | Programming Language Course-I | - 1 - 1 - 1 - 1 - 1 | 2 | 0 | 2 | 0 | 03 | | | | |
| | | BENGK106 | Communicative English | | | | | ra | | | | | |
| 6 | AEC | | OR | Humanities | 1 | 0 | 0 | 0 | 01 | 50 | 50 | 100 | 01 |
| | | BPWSK106 | Professional Writing Skills in English | 111 | 157 | | | | | | 12.55 | # 5 m | |
| | | BKSKK107/ BKBKK107 | Samskrutika Kannada/ Balake Kannada | n e e e e e e e e e e e e e e e e e e e | 1 | 0 | 0 | 0 | 01 | 50 | 50 | 100 | 01 |
| 7 | HSMC | | OR | Humanities | | | | | 01 | 50 | 50 | 100 | 01 |
| | 140 | BICOK107 | Indian Constitution | į į | 1 | 0 | 0 | 0 | | | | 7.5 | |
| | | BIDTK158 | Innovation and Design Thinking | 100 | 1 | 0 | 0 | 0 | 01 | | 1- | S. S. | |
| 8 | AEC/SDC | | OR | Any Dept | | | | The W | No. | 50 | 50 | 100 | 01 |
| | | BSFHK158 | Scientific Foundations of Health | Берг | 1 | 0 | 0 | 0 | 01 | | 30 10 | | , V |

29052023/V10 Scheme for EEE/ECE/ETC/EIE/BM/ML/IO

shall be designed as an Integrated course (L:T:P:S= 2:0:2:0),. **All 01 Credit**-courses shall have the SEE of 01 hours duration and the pattern of the question paper shall be MCQ

| | (ESC-I) Engineering Science Courses-I | | | | (ETC-I) Emerging Technology Courses-I | | | | | | | | |
|--------------|--|---|---|-----|---------------------------------------|--|---|---|-----|--|--|--|--|
| Code | Title | L | T | P | Code | Title | L | T | P | | | | |
| BESCK104A | Introduction to Civil Engineering | 3 | 0 | 0 | BETCK105A | Smart Materials and Systems | 3 | 0 | 0 | | | | |
| BESCK104B | Introduction to Electrical Engineering | 3 | 0 | 0 | BETCK105B | Green Buildings | 3 | 0 | 0 | | | | |
| BESCK104C | Introduction to Electronics Communication | 3 | 0 | 0 | BETCK105C | Introduction to Nano Technology | 3 | 0 | 0 | | | | |
| BESCK104D | Introduction to Mechanical Engineering | 3 | 0 | 0 | BETCK105D | Introduction to Sustainable Engineering | 3 | 0 | 0 | | | | |
| BESCK104E | Introduction to C Programming | 2 | 0 | 2 | BETCK105E | Renewable Energy Sources | 3 | 0 | 0 | | | | |
| | The second second | | | 10 | BETCK105F | Waste Management | 3 | 0 | 0 | | | | |
| | | | | | BETCK105G | Emerging Applications of Biosensors | 3 | 0 | 0 | | | | |
| | | | | | BETCK105H | Introduction to Internet of Things (IOT) | 3 | 0 | . 0 | | | | |
| | | | | | BETCK105I | Introduction to Cyber Security | 3 | 0 | 0 | | | | |
| | | | | 170 | BETCK105J | Introduction to Embedded System | 3 | 0 | 0 | | | | |
| (PLC-I) Prog | ramming Language Courses-I | | | 100 | 4.0 | | | |)ų | | | | |
| Code | Title | L | T | P | H. E. 2 | | | | | | | | |
| BPLCK105A | Introduction to Web Programming | 2 | 0 | 2 | ENAIN: | All the second s | | | | | | | |
| BPLCK105B | Introduction to Python Programming | 2 | 0 | 2 | Marie - | | | | | | | | |
| BPLCK105C | Basics of JAVA programming | 2 | 0 | 2 | | | | | | | | | |
| BPLCK105D | Introduction to C++ Programming | 2 | 0 | 2 | | | | | | | | | |

The course BESCK104E, Introduction to C Programming, and all courses under PLC and ETC groupscan be taught by faculty of ANY DEPARTMENT

- The student has to select one course from the ESC-I group.
- EEE Students shall opt for any one of the courses from the ESC-I group except, BESCK104B-Introduction to Electrical Engineering and ECE/ETC/BM/ML students shall opt any one of the courses from ESC-I except BESCK104C Introduction to Electronics Engineering
- The students have to opt for the courses from ESC group without repeating the course in either 1st or 2nd semester
- The students must select one course from either ETC-l or PLC-I group.
- If students study the subject from ETC-I in 1st semester he/she has to select the course from PLC-II in the 2nd semester and vice-versa

Visvesvaraya Technological University, Belagavi SchemeofTeaching and Examinations-2022 Outcome-Based Education(OBE)andChoiceBasedCreditSystem(CBCS) (Effectivefromtheacademicyear 2022-23)

| ISem | ester (Electri | cal & Electron | ics EngineeringStream) | (For the students | who at | | | iester | under P | hysics Gr | oup) | | |
|-----------|--|-----------------------|--|---|--------|----------|-----------------------|--------|----------------------|----------------------|----------------------|----------------|----------|
| 777 | | | | | | | ching s/Week | | I | Examinatio | n | | |
| SI. No | | nd Course ode | Course Title | TD/PSB | Theory | Tutorial | Practical/ Drawing | SDA | Duration in hours | CIE Marks | SEE Marks | Total Marks | Credits |
| | i.e | | | | L | T | P | S | | | | | |
| 1 | *ASC(IC) | BMATE201 | Mathematics-II for EESI | Maths | 2 | 2 | 2 | 0 | 03 | 50 | 50 | 100 | 04 |
| 2 | #ASC(IC) | BCHEE202 | Chemistry for EES | Chemistry | 2 | 2 | 2 | 0 | 03 | 50 | 50 | 100 | 04 |
| 3 | ESC | BCEDK203 | Computer-Aided Engineering Drawing | Civil/Mech Engg dept | 2 | 0 | 2 | 0 | 03 | 50 | 50 | 100 | 03 |
| 4 | ESC-II | BESCK204x | Engineering Science Course-II | Respective Engg Dept | 3 | 0 | 0 | 0 | 03 | 50 | 50 | 100 | 03 |
| | PLC-II | BPLCK205x | Programming Language Course-II | | 2 | 0 | 2 | 0 | 03 | | | | |
| 5 | # # | *** | OR | Any Dept | | | | | | 50 | 50 | 100 | 03 |
| | ETC-II | ветск205х | Emerging Technology Course-II | | 03 | 0 | 0 | 0 | 03 | | | | |
| | -34- | BPWKS206 | Professional Writing Skills in English | | | d st | | | N. | | | | |
| 6 | AEC | | OR | Humanities | 1 | 0 | 0 | 0 | 01 | 50 | 50 | 100 | 01 |
| | THE X | BENGK206 | Communicative English | | | | 编 | | | 7.5 | | | - Man |
| | | BICOK207 | Indian Constitution | | | 1 100 | | | | | | 9 | |
| 7 | HSMS | | OR | Humanities | 1 | 0 | 0 | 0 | 01 | 50 | 50 | 100 | -01 |
| | 1000 | BKSKK207/ BKBKK207 | Samskrutika Kannada/ Balake Kannada | | | 1 | | | | | Prii | and the same | 1 |
| | The state of the s | BSFHK258 | Scientific Foundations of Health | .42.1= | 1 | 0 | 0 | 0 | 01 14 | pthagir 5, Chikka | i Colle sandra, F | e of 8 | ngine |
| 8 | HSMS | | OR | Any Dept. | | | | | | 50 | 3en50un | -100 | otta Mai |
| | | BIDTK258 | Innovation and Design Thinking | N. C. | 1 | 0 | 0 | 0 | 01 | - 14 | | | 76 |
| | 一十二 | Aparl 1 | | TOTAL | | | | | | 400 | 400 | 800 | 20 |

29052023/V10 Scheme for EEE/ECE/ETC/EIE/BM/ML/IO

SDA-Skill Development Activities, TD/PSB- Teaching Department / Paper Setting Board, ASC-Applied Science Course, ESC- Engineering Science Courses, ETC- Emerging Technology Course, AEC- Ability Enhancement Course, HSMS-Humanity and Social Science and Management Course, SDC- Skill Development Course, CIE -Continuous Internal Evaluation, SEE- Semester End Examination, IC – Integrated Course (Theory Course Integrated with Practical Course)

*- BMATE201Shall have the 03 hours of theory examination(SEE), however, practical sessions question shall be included in the theory question papers. ** The mathematics subject should be taught by a single faculty member per division, with no sharing of the course(subject)module-wise by different faculty members.

#- BCHEE202- SEE shall have the 03 hours of theory examination and 02-03 hours of practical examination

ESC or ETC of 03 credits Courses shall have only a theory component (L:T:P:S=3:0:0:0) or if the nature the of course required practical learning, syllabus shall be designed as an Integrated course (L:T:P:S= 2:0:2:0)

All 01 Credit- courses shall have the SEE of 01 hours duration and the pattern of the question paper shall be MCQ

| | (ESC-II) Engineering Science Courses-II | | | | N/ | (ETC-II) Emerging Technology Courses-II | | | |
|--------------|---|---|---|----------------|--|---|----|--|--------------|
| Code | Title | L | T | P | Code | Title | L | T | P |
| BESCK201A | Introduction to Civil Engineering | 3 | 0 | 0 | BETCK205A | Smart materials and Systems | 3 | 0 | 0 |
| BESCK202B | Introduction to Electrical Engineering | 3 | 0 | 0 | BETCK205B | Green Buildings | 3. | 0 | 0 |
| BESCK203C | Introduction to Electronics Communication | 3 | 0 | 0 | BETCK205C | Introduction to Nano Technology | 3 | 0 | 0 |
| BESCK204D | Introduction to Mechanical Engineering | 3 | 0 | 0 | BETCK205D | Introduction to Sustainable Engineering | 3 | 0 | 0 |
| BESCK205E | Introduction to C Programming | 2 | 0 | 2 | BETCK205E | Renewable Energy Sources | 3 | 0 | C |
| | E shall | | | W. | BETCK205F | Waste Management | 3 | 0 | (|
| | ADEX II | | | 1710 | BETCK205G | Emerging Applications of Biosensors | 3 | 0 | (|
| | G/12 | | | | ВЕТСК205Н | Introduction to Internet of Things(IoT) | 3 | 0 | (|
| | NO. A. | | | | BETCK205I | Introduction to Cyber Security | 3 | 0 | (|
| | 197 | | | + | BETCK205J | Introduction to Embedded System | 3 | 0 | (|
| (PLC-II) Pro | gramming Language Courses-II | | | j _h | 13 ± | Market Land | | | 7 |
| Code | Title | L | T | P | Win . | Address (Address | | 44 | == |
| BPLCK205A | Introduction to Web Programming | 2 | 0 | 2 | 100 | 144 | | TANK . | alena d |
| BPLCK205B | Introduction to Python Programming | 2 | 0 | 2 | THE STATE OF THE S | 2966 | | Company of the Compan | 1 |
| BPLCK205C | Basics of JAVA programming | 2 | 0 | 2 | 推。 | and the second | | CHESTER | A PORT |
| BPLCK205D | Introduction to C++ Programming | 2 | 0 | 2 | (M.S.), V | 1200000 日間に | | THE STATE OF | and the same |
| TI. | DECCESORE Introduction to C December | * | | 11 | OFFICE CONTRACTOR | DIC I ETC | | C A | MI |

The course BESCK205E, Introduction to C Programming, and all courses under PLC and ETC groups can be taught by faculty of ANY DEPARTMENT

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VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI

B.E. in Electronics and Communication Engineering (ECE)

Scheme of Teaching and Examinations 2021

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

(Effective from the academic year 2021 - 22)

| | | | | _ | Teaching | Hours /V | /eek | | | Exam | ination | | |
|-----------|--|------------------------------|--|---|---|---------------------|-----------------------|-----------------|--------------------|---------------------|----------------------|--------------------------------------|------------------|
| SI. No | Course and Course Code | | Course Title | Teaching Department (TD) and Question Paper Setting Board (PSB) | Theory | Tutorial | Practical/ Drawing | Self -Study | Duration in hours | CIE Marks | SEE Marks | Total Marks | Credits |
| | | | | ے م | L | Т | Р | S | | | | | |
| 1 | BSC 21MAT31 | And the Assessment | ematics Course mon to all) | TD- Maths PSB-Maths | | | | | 03 | 50 | 50 | 100 | 3 |
| 2 | IPCC 21EC32 | Digita | System Design using Verilog | TD: ECE PSB: ECE | 3 | 0 | 2 | | 03 | 50 | 50 | 100 | 4 |
| 3 | IPCC 21EC33 | Basic : | Signal Processing | TD: ECE PSB: ECE | 3 | 0 | 2 | | 03 | 50 | 50 | 100 | 4 |
| 4 | PCC 21EC34 | Analo | g Electronic Circuits | TD: ECE PSB: ECE | 3 | 0 | 0 | 1 | 03 | 50 | 50 | 100 | 3 |
| 5 | PCC 21ECL35 | Analo | g and Digital Electronics Lab | TD: ECE PSB: ECE | 0 | 0 | 2 | | 03 | 50 | 50 | 100 | 1 |
| 6 | UHV 21UH36 | Social | Connect and Responsibility | Any Department | 0 | 0 | 1 | | 01 | 50 | 50 | 100 | 1 |
| | HSMC 21KSK37/47 | Samsk | krutika Kannada | | | | | 五 1 | | | | | Ī |
| 7 | HSMC 21KBK37/47 | Balake | e Kannada | TD and PSB HSMC | 1 | 0 | 0 | | 01 | 50 | 50 | 100 | 1 |
| | HSMC 21CIP37/47 | OR Constitution of India and | | HSIVIC | 100 | | | A . | | | | | |
| | 2101737/47 | Fiores | ssional Ethics | TD: Concerned | If offer | If offered as The | | urse | 01 | | | | |
| 8 | AEC | Abilia | / Enhancement Course - III | department | 1 | 0 | 0 | 200 | 01 | 50 | 50 | 100 | 1 |
| 8 | 21EC38X | Ability | y Ennancement Course - III | PSB: Concerned Board | If offe 0 | ered as la | b. cour 2 | se | 02 | 30 | 30 | 100 | |
| | | | | | | | | | Total | 400 | 400 | 800 | 18 |
| | | NMDC 21NS83 | National Service Scheme (NSS) | NSS | National Athletics | Services) and Y | oga wi | me, I th the | hysical concerr | Education Education | tion (Pi rdinator | course na E)(Sports of the co | and ourse |
| 9 | heduled activities for the form of the for | NMDC 21PE83 | Physical Education (PE)(Sports and Athletics) | PE | out bet | ween III ove cou | semes rses s | ter to ' | VIII sem e cond | ester (fo | or 5 sem during | hall be ca esters). S VIII sem | SEE in nester |
| | Scheduled activities for | NMDC 21YO83 | Yoga | Yoga | examinations and the accumulated CIE marks shall be added SEE marks. Successful completion of the registered of mandatory for the award of the degree. The events shall be appropriately scheduled by the colleges same shall be reflected in the calendar prepared for the NSS Yoga activities. | | | | | | | red cour olleges an | se is |
| | | Course | prescribed to lateral entry I | Diploma holders a | | | nester | B.E./ | B.Tech | progra | ms | | |
| 1 | NCMC | | Additional Mathematics - I | Maths | 02 | 02 | | | | 100 | | 100 | 0 |

Note: BSC: Basic Science Course, IPCC: Integrated Professional Core Course, PCC: Professional Core Course, INT –Internship, Social Science & Management Courses, AEC–Ability Enhancement Courses. UHV: Universal Human Value Course.

L –Lecture, T – Tutorial, P- Practical/ Drawing, S – Self Study Component, CIE: Continuous Internal Evaluation, SEE: Semester End Examination.TD-Teaching Department, PSB: Paper Setting department

21KSK37/47 Samskrutika Kannada is for students who speak, read and write Kannada and 21KBK37/47 Balake Kannada is for non-Kannada speaking, reading, and writing students.

Integrated Professional Core Course (IPCC): Refers to Professional Theory Core Course Integrated with practical of the same course. Credit for IPCC can be 04 and its Teaching-Learning hours (L:T:P) can be considered as (3:0:2) or (2:2:2). The theory part of the IPCC shall be evaluated both by CIE and SEE. The practical part shall be evaluated by only CIE (no SEE). However, questions from the practical part of IPCC shall be included in the SEE question paper. For more details, the regulation governing the Degree of Bachelor of Engineering /Technology (B.E./B.Tech.) 2021-22 may be referred.

JBOS28022022/EC09032022/KM

Sapthagiri College of Engineering 14/5, Chikkasanda, Hesaraghatta Main Road Bengaluru - 560 057 21INT49Inter/Intra Institutional Internship: All the students admitted to engineering programs under the lateral entry category shall have to undergo a mandatory 21INT49 Inter/Intra Institutional Internship of 03 weeks during the intervening period of III and IV semesters. The internship shall be slated for CIE only and will not have SEE. The letter grade earned through CIE shall be included in the IV semester grade card. The internship shall be considered as a head of passing and shall be considered for vertical progression and for the award of degree. Those, who do not take up / complete the internship shall be declared fail and shall have to complete during subsequently after satisfying the internship requirements. The faculty coordinator or mentor shall monitor the students' internship progress and interact with them for the successful completion of the internship.

Non-credit mandatory courses (NCMC):

(A) Additional Mathematics I and II:

- (1)These courses are prescribed for III and IV semesters respectively to lateral entry Diploma holders admitted to III semester of B.E./B.Tech., programs. They shall attend the classes during the respective semesters to complete all the formalities of the course and appear for the Continuous Internal Evaluation (CIE). 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 an F grade. In such a case, the student has to fulfill the course requirements during subsequent semester/s to earn the qualifying CIE marks. These courses are slated for CIE only and have no SEE.
- (2) Additional Mathematics I and II shall not be considered for vertical progression as well as for the calculation of SGPA and CGPA, but completion of the courses shall be mandatory for the award of degree.
- (3)Successful completion of the courses Additional Mathematics I and II shall be indicated as satisfactory in the grade card. Non-completion of the courses Additional Mathematics I and II shall be indicated as Unsatisfactory.
- (B) National Service Scheme/Physical Education (Sport and Athletics)/ Yoga:
- (1) Securing 40 % or more in CIE,35 % or more marks in SEE and 40 % or more in the sum total of CIE + SEE leads to successful completion of the registered course.
- (2) In case, students fail to secure 35 % marks in SEE, they have to appear for SEE during the subsequent examinations conducted by the University.
- (3) In case, any student fails to register for NSS, PE or Yoga/fails to secure the minimum 40 % of the prescribed CIE marks, he/she shall be deemed to have not completed the requirements of the course. In such a case, the student has to fulfill the course requirements during subsequent semester/s to earn the qualifying CIE marks.
- (4) Successful completion of the course shall be indicated as satisfactory in the grade card. Non-completion of the course shall be indicated Unsatisfactory.
- (5) These courses shall not be considered for vertical progression as well as for the calculation of SGPA and CGPA, but completion of the courses shall be mandatory for the award of degree.

| Ability Enhancement Course - III | | | | | | | | |
|----------------------------------|---|---------|--|--|--|--|--|--|
| 21EC381 | LD (Logic Design) Lab using Pspice / MultiSIM | 21EC383 | LIC (Linear Integrated Circuits) Lab using Pspice / MultiSIN | | | | | |
| 21EC382 | AEC (Analog Electronic Circuits) Lab | 21EC384 | LabVIEW Programming Basics | | | | | |

VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI

B.E. in Electronics and Communication Engineering (ECE)

Scheme of Teaching and Examinations 2021

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

(Effective from the academic year 2021 - 22)

| | MESTER | | | Tea | ching I | Hours /W | eek | | Exami | ination | | |
|-----------|---------------------------|---|---|---|--|---|--|----------------------|-----------|-----------|-------------|---------|
| SI. No | Course and Course Code | Course Title | Teaching Department (TD) and Question Paper Setting Board (PSB) | Theory | Tutorial | Practical/ Drawing | Self-Study | Duration in hours | CIE Marks | SEE Marks | Total Marks | Credits |
| | 1 | | Δ | L | T | P | S | | | | 361 | |
| 1 | BSC 21EC41 | Maths for Communication Engineers | TD, PSB-Maths | | | 170 K | (Int | 03 | 50 | 50 | 100 | 3 |
| 2 | IPCC 21EC42 | Digital Signal Processing | TD: ECE PSB: ECE | 3 | 0 | 2 | 44 | 03 | 50 | 50 | 100 | 4 |
| 3 | IPCC 21EC43 | Circuits & Controls | TD: ECE PSB: ECE | 3 | 0 | 2 | | 03 | 50 | 50 | 100 | 4 |
| 4 | PCC 21EC44 | Communication Theory | TD: ECE PSB: ECE | 3 | 0 | 0 | 1 | 03 | 50 | 50 | 100 | 3 |
| 5 | AEC 21BE45 | Biology For Engineers | BT, CHE, PHY | 2 | 0 | 0 | | 02 . | 50 | 50 | 100 | 2 |
| 6 | PCC 21ECL46 | Communication Laboratory I | TD: ECE PSB: ECE | 0 | 0 | 2 | i de la | 03 | 50 | 50 | 100 | 1 |
| | HSMC 21KSK37/47 | Samskrutika Kannada | - L | | | - | 17. | | | | | |
| 7 | HSMC 21KBK37/47 | Balake Kannada | HSMC | 1 | 0 | 0 | | 01 | 50 | 50 | 100 | 1 |
| | | OR | | | | | | | | | | |
| | HSMC 21CIP37/47 | Constitution of India & Professional Ethics | la la | | | | | | | | | |
| -10 | | | TD and PSB: | | | theory (| Course | 01 | Section 1 | | 357 | 13 |
| 8 | AEC | Ability Enhancement Course- IV | Concerned | 1 | 0 | 0 | | | 50 | 50 | 100 | 1 |
| | 21EC48X | | department | 0 | o o | as lab. co | ourse | 02 | The sales | | | |
| 9 | UHV 21UH49 | Universal Human Values | Any Department | 1 | 0 | 0 | | 01 | 50 | 50 | 100 | 1 |
| 10 | INT 21INT49 | Inter/Intra Institutional Internship | Evaluation By the appropriate authorities | III ser admitt BE./B. interve and Latera | ening mester ted to Tech a ening IV s | during period or s by strong first y and during period semester stry strill semes | of III and udents ear of of III rs by udents | 3 | 100 | 77.77 | 100 | 2 |
| | • | | 10 10th #1.0 | | | | | Total | 550 | 450 | 1000 | 1 |
| | | C SERVICE V | | | | | | | | | | |
| | NCMC | urse prescribed to lateral entry Diplo | ma holders adm | itted to | III se | mester | of Engi | neering | progra | ams | | |
| 1 | 21MATDIP41 | Additional Mathematics - II | Maths | 02 | 02 | | | | 100 | | 100 | 0 |

Note: BSC: Basic Science Course, IPCC: Integrated Professional Core Course, PCC: Professional Core Course, AEC –Ability Enhancement Courses, HSMC: Humanity and Social Science and Management Courses, UHV- Universal Human Value Courses.

L -Lecture, T - Tutorial, P- Practical/ Drawing, S - Self Study Component, CIE: Continuous Internal Evaluation, SEE: Semester End Examination.

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Integrated Professional Core Course (IPCC): Refers to Professional Theory Core Course Integrated with Practicals of the same course. Credit for IPCC can be 04 and its Teaching – Learning hours (L:T:P) can be considered as (3:0:2) or (2:2:2). The theory part of the IPCC shall be evaluated both by CIE and SEE. The practical part shall be evaluated by only CIE (no SEE). However, questions from practical part of IPCCshall be included in the SEE question paper. For more details the regulation governing the Degree of Bachelor of Engineering /Technology (BE/B.Tech.) 2021-22 may be referred.

Non - credit mandatory course (NCMC):

Additional Mathematics - II:

(1) Lateral entry Diploma holders admitted to III semester of B.E./B.Tech., shall attend the classes during the IV semester to complete all the

JBOS28022022/EC09032022/KM

Principal
Sapthagiri College of Engineering
14/5, Chikkasandra, Hesaraghetta Main Roser
Bendalimi - 580 d57

formalities of the course and appear for the Continuous Internal Evaluation (CIE). 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 an F grade. In such a case, the student has to fulfill the course requirements during subsequent semester/s to earn the qualifying CIE marks. These courses are slated for CIE only and have no SEE.

(2) Additional Mathematics I and II shall not be considered for vertical progression as well as for the calculation of SGPA and CGPA, but completion of the courses shall be mandatory for the award of degree.

(3)Successful completion of the course Additional Mathematics II shall be indicated as satisfactory in the grade card. Non-completion of the courses Additional Mathematics II shall be indicated as Unsatisfactory.

| Ability Enhancement Course - IV | | | | | | | | |
|---------------------------------|-------------------|---------|-----------------------------|--|--|--|--|--|
| 21EC481 | Embedded C Basics | 21EC483 | Octave / Scilab for Signals | | | | | |
| 21EC482 | C++ Basics | 21EC484 | DAQ using LabVIEW | | | | | |

Internship of 04 weeks during the intervening period of IV and V semesters; 21INT68Innovation/ Entrepreneurship/ Societal based Internship.

(1)All the students shall have to undergo a mandatory internship of 04 weeks during the intervening period of IV and V semesters. The internship shall be slated for CIE only and will not have SEE. The letter grade earned through CIE shall be included in the VI semester grade card. The internship shall be considered as a head of passing and shall be considered for vertical progression and for the award of degree. Those, who do not take up / complete the internship shall be considered under F (fail) grade and shall have to complete during subsequently after satisfying the internship requirements.

(2)Innovation/ Entrepreneurship Internship shall be carried out at industry, State and Central Government /Non-government organizations (NGOs), micro, small and medium enterprise (MSME), Innovation centres or Incubation centres. Innovation need not be a single major breakthrough; it can also be a series of small or incremental changes. Innovation of any kind can also happen outside of the business world.

Entrepreneurship internships offers a chance to gain hands on experience in the world of entrepreneurship and helps to learn what it takes to run a small entrepreneurial business by performing intern duties with an established company. This experience can then be applied to future business endeavours. Start-ups and small companies are a preferred place to learn the business tack ticks for future entrepreneurs as learning how a small business operates will serve the intern well when he/she manages his/her own company. Entrepreneurship acts as a catalyst to open the minds to creativity and innovation. Entrepreneurship internship can be from several sectors, including technology, small and medium-sized, and the service sector.

(3) Societal or social internship.

Urbanization is increasing on a global scale; and yet, half the world's population still resides in rural areas and is devoid of many things that urban population enjoy. Rural internship is a work-based activity in which students will have a chance to solve/reduce the problems of the rural place for better living.

As proposed under the AICTE rural internship programme, activities under Societal or social internship, particularly in rural areas, shall be considered for 40 points under AICTE activity point programme.

Principel

Sapthagiri College of Engineering 14/5, Chikkasandra, Hesaraghatta Main Roan Bengaluru - 560 057

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: B.E: Electronics & Communication Engineering

| | | | | | | | | | | 35 | | | | |
|-------|---|---------------------|----------------|--------------------------------------|--|-----------------------|-----------------------------|-------------------------------------|---------------------------|---|---|---------------------------|--|------------|
| | 9 | | 8 | 7 | 6 | 5 | 4 | သ | 2 | 1881 1 | | SI. | | |
| | HSMC | | PCC | PCC | PCC | PCC | PCC | PCC | PCC | HSMC | | C ₀ | | |
| | 18CIV59 | | 18ECL58 | 18ECL57 | 18EC56 | 18EC55 | 18EC54 | 18EC53 | 18EC52 | 18ES51 | | Course and Course code | | |
| | Environmental Studies | | HDL Laboratory | Digital Signal Processing Laboratory | Verilog HDL | Electromagnetic Waves | Information Theory & Coding | Principles of Communication Systems | Digital Signal Processing | Technological Innovation Management and Entrepreneurship | | Course Title | The state of the s | |
| TOTAL | [Paper setting: Civil Engineering Board] | Civil/Environmental | | 100000 | HILMON THE PARTY OF THE PARTY O | STEERING . | | TOTAL PARTY | 上海 生 | | | Teaching Department | | V SEMESTER |
| 19 | 1 | | 1 | 1.07 | 3 | 3 | 3 | 3 | ယ | 3 | L | Theory Lecture | Teachin | |
| 8 | | | 2 | 2 | 1 | 1 | ï | 2 | 2 | 0 | Т | Tutorial | g Hour | |
| 4 | 1 | | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1. | P | Practical/ Drawing | ing Hours /Week | |
| 26 | 02 | | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 1 | Duration in hours | | |
| 360 | 40 | | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | | CIE Marks | Exam | |
| 540 | 60 | | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | | SEE Marks | Examination | |
| 900 | 100 | 12.11 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | | Total Marks | 3 | - |
| 2: | | | 2 | 2 | u | u | w | 4 | 4 | w | - | 179 | | |

Credits

Sapthagiff College of Engineering 14/5, Chikkasendra, Hesanghatta Main Reed Bengakuru - 560 667 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.

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

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.

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.

Sapthagiri College of Engineering 14/6, Chikkasandra, Hesaraguetta Main Rass 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: B.E: Electronics & Communication Engineering

VI SEMESTER

| | | | 5.23 | | Teachi | ng Hours | /Week | | Exami | nation | | |
|-----------|------------|--------------------|-----------------------------|---------------------|---------------------|------------|-----------------------|----------------------|------------|-----------|----------------|---------|
| SI. No | | rse and se code | Course Title | Teaching | - Theory Lecture | - Tutorial | Practical/ Drawing | Duration in hours | CIE Marks | SEE Marks | Total Marks | Credits |
| 1 | PCC | 18EC61 | Digital Communication | | 3 | 2 | - usi | 03 | 40 | 60 | 100 | 4 |
| 1 | | | | | | 2 | | - | | | | 4 |
| 2 | PCC | 18EC62 | Embedded Systems | | 3 | 2 | | 03 | 40 | 60 | 100 | 4 |
| 3 | PCC | 18EC63 | Microwave and Antennas | | 3 | 2 | - 109 | 03 | 40 | 60 | 100 | 4 |
| 4 | PEC | 18XX64X | Professional Elective -1 | | 3 | | - 763 | 03 | 40 | 60 | 100 | 3 |
| 5 | OEC | 18XX65X | Open Elective -A | 6 | 3 | | - 0 | 03 | 40 | 60 | 100 | 3 |
| 6 | PCC | 18ECL66 | Embedded Systems Laboratory | 9- | 1-1-1 | 2 | 2 | 03 | 40 | 60 | 100 | 2 |
| 7 | PCC | 18ECL67 | Communication Laboratory | | 142.286 | 2 | 2 | 03 | 40 | 60 | 100 | 2 |
| 8 | MP | 18ECMP68 | Mini-project Mini-project | E/ I | 1, 1/5-2400 | | 2 | 03 | 40 | 60 | 100 | 2 |
| 9 | Internship | | Internship | To be carried out d | uring the va | cation/s | of VI and VI | I semeste | rs and /or | VII and | VIII seme | sters. |
| | (273) | 44 | (A) | TOTAL | 15 | 10 | 6 | 24 | 320 | 480 | 800 | 24 |

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

| - | | 1 777 | 4 |
|-----|----------|----------|----|
| Pro | tessiona | Elective | -1 |

| Course code under 18XX64X | Course Title | |
|---------------------------|-------------------------------------|---|
| 18EC641 | Operating System | |
| 18EC642 | Artificial Neural Networks | |
| 18EC643 | Data Structures using C++ | |
| 18EC644 | Digital System Design Using Verilog | |
| 18EC645 | Nanoelectronics | • |
| 18EC646 | Python Application Programming | |
| | | |

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30

| OPEN EL | ECTIVE group-B |
|---------|-------------------------------|
| 18EC651 | Signal Processing |
| 18EC652 | Sensors & Signal Conditioning |
| 18EC653 | Virtual Instrumentation |
| 18EC654 | Microcontrollers |
| 18EC655 | Basic VLSI Design |

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).

Selection of an open elective shall not be allowed if,

- 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.

Registration to electives shall be documented under the guidance of Programme Coordinator/ Advisor/Mentor.

Mini-project work:

Based on the ability/abilities of the student/s and recommendations of the mentor, a single discipline or a multidisciplinary Mini- project can be assigned to an individual student or to a group having not more than 4 students.

CIE procedure for Mini-project:

(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 Mini-project work, shall be based on the evaluation of project 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 the guides of the college.

The CIE marks awarded for the Mini-project, shall be based on the evaluation of project 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 Mini-project:

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

Sapthagiri College of Engineering
14/5, Chikkasandra, Hesaraghatta Main Road
Bengaluru - 568 967

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: B.E: Electronics & Communication Engineering

| (a) (a) (a) (a) | | A Sale | 4 | Teaching Hours /Week | | | Examination | | | | | |
|-----------------|------------|--------------------|---------------------------|--|-------------------|----------|-----------------------|----------------------|-----------|-----------|-------------|---------|
| Sl. No | | rse and se code | Course Title | Teaching Department | Theory Lecture | Tutorial | Practical/ Drawing | Duration in hours | CIE Marks | SEE Marks | Fotal Marks | Credits |
| 1 | PCC | 18EC71 | Computer Networks | | 3 | | - | 03 | 40 | 60 | 100 | 3 |
| 2 | PCC | 18EC72 | VLSI Design | | 3 | | | 03 | 40 | 60 | 100 | 3 |
| 3 | PEC | 18XX73X | Professional Elective - 2 | | 3 | | | 03 | 40 | 60 | 100 | 3 |
| 4 | PEC | 18XX74X | Professional Elective - 3 | | 3 | | - P\$ | 03 | 40 | 60 | 100 | 3 |
| 5 | OEC | 18XX75X | Open Elective -B | | 3 | | | 03 | 40 | 60 | 100 | 3 |
| 6 | PCC | 18ECL76 | Computer Networks Lab | | Manhatra . | 2 | 2 | 03 | 40 | 60 | 100 | 2 |
| 7 | PCC | 18ECL77 | VLSI Laboratory | | 一种电路 | 2 | 2 | 03 | 40 | 60 | 100 | 2 |
| 8 | Project | 18ECP78 | Project Work Phase - 1 | | 125 | | 2 | 切片曲以一 | 100 | 1 | 100 | 1 |
| 9 | Internship | | Internship | (If not completed during the vacation of VI and VII semesters, it shall be carried or during the vacation of VII and VIII semesters) | | | | out | | | | |
| | Perm | Mr. | 1910 | TOTAL | 15 | 04 | 06 | 21 | 38 | 420 | 800 | 20 |

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

| Professional | Elective - 2 | |
|--------------|--------------|--|
| | | |

| Course code under 18XX73X | Course Title | 161300 |
|---------------------------|-------------------------------|--------|
| 18EC731 | Real Time Systems | 1746 |
| 18EC732 | Satellite Communication | 110 |
| 18EC733 | Digital Image Processing | -19 |
| 18EC734 | DSP Algorithms & Architecture | 70.0 |
| FIG. 6 A Basic | . 光解 8%。 | -5.07 |

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| 18EC741 IOT & Wireless Sensor Networks 18EC742 Automotive Electronics 18EC743 Multimedia Communication 18EC744 Cryptography 18EC745 Machine Learning with Python Open Elective -B 18EC751 Communication Theory 18EC752 Neural Networks 18EC753 ARM Embedded Systems | 14 |
|---|-----|
| 18EC743 Multimedia Communication 18EC744 Cryptography 18EC745 Machine Learning with Python Open Elective -B 18EC751 Communication Theory 18EC752 Neural Networks 18EC753 ARM Embedded Systems | 9 |
| 18EC744 Cryptography 18EC745 Machine Learning with Python Open Elective -B 18EC751 Communication Theory 18EC752 Neural Networks 18EC753 ARM Embedded Systems | |
| 18EC745 Machine Learning with Python Open Elective -B 18EC751 Communication Theory 18EC752 Neural Networks 18EC753 ARM Embedded Systems | Th. |
| Open Elective -B 18EC751 Communication Theory 18EC752 Neural Networks 18EC753 ARM Embedded Systems | |
| 18EC751 Communication Theory 18EC752 Neural Networks 18EC753 ARM Embedded Systems | |
| 18EC752 Neural Networks 18EC753 ARM Embedded Systems | |
| 18EC753 ARM Embedded Systems | |
| · · · · · · · · · · · · · · · · · · · | |
| | |
| 18EC754 Digital Systems Design using VHDL | |
| (1) (1) (1) (1) (1) (1) (1) (1) (1) (1) | |

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).

Selection of an open elective shall not be allowed if,

- 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.

Registration to electives shall be documented under the guidance of Programme Coordinator/ Advisor/Mentor.

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.

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.

(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.

Sapthagiri College of Engineering 14/6, Chikkasandra, Hesaraghatta Main Road Bengaluru - 500 057 SI.

No

2

3

4

PCC

PEC

Project

Seminar

Internship

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)

VIII SEMESTER

Programme: B.E: Electronics & Communication Engineering

| | | | Teaching Hours / Week Examination | | | | | | | 1 1 | |
|-------|------------------|-------------------------------------|-----------------------------------|--------|----------|-----------------------|---------------------|----------|-----------|------------|---------|
| Cours | se and e code | Course Title | Teaching Department | Theory | Tutorial | Practical/ Drawing | uration in hours | IE Marks | SEE Marks | otal Marks | Credits |
| | | | | L | T | P | D | C | S | To | |
| 祖州社 | 18EC81 | Wireless and Cellular Communication | | 3 | | | 03 | 40 | 60 | 100 | 3 |
| MAN N | 18XX82X | Professional Elective - 4 | | 3 | | | 03 | 40 | 60 | 100 | 3 |
| et | 18ECP83 | Project Work Phase - 2 | | 144E | | 2 | 03 | 40 | 60 | 100 | 8 |
| nar | 18ECS84 | Technical Seminar | | 0.3299 | | 2 | 03 | 100 | | 100 | 1 |

Completed during the vacation/s of VI and VII semesters and /or VII and VIII

06

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

18ECI85

Internship

| Professional | Elective - 4 |
|-----------------|---------------|
| 1 I Ulcoolullai | Litettive - 4 |

semesters.)

TOTAL

| | | Tiolessional Elective | | | |
|---------------------------|----------------------------------|-----------------------|------------|--|--|
| Course code under 18XX82X | Course Title | | TEMEN | T/MEA | 177 |
| 18EC821 | Network Security | | 17位加速位/ | 10 m Mary 1- | |
| 18EC822 | Micro Electro Mechanical Systems | 7. 连建北 | 十四条独立の | 17年最近1 | 29億年 |
| 18EC823 | Radar Engineering | 15,78% | 75.5 | 光度解及 别 | Harry to |
| 18EC824 | Optical Communication Networks | Was a Control | 45-11-5/4 | 44.000 | 748 |
| 18EC825 | Biomedical Signal Processing | 1917 | 提出的 | Salts. | 501487 |
| | | | 2 apr 15 % | The second secon | A STATE OF THE STA |

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60

240

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The CIE marks awarded for the project work phase -1, shall be based on the evaluation of project work phase -1 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.

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.

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.

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