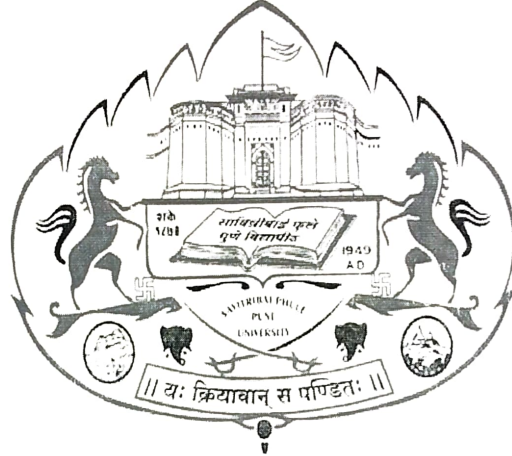


**Faculty of Science and Technology
Savitribai Phule Pune University
Maharashtra, India**



<http://unipune.ac.in>

**Curriculum
for
Third Year of Computer Engineering
(2019 Course)
(With effect from 2021-22)**

Savitribai Phule Pune University
Third Year of Computer Engineering (2019 Course)
 (With effect from Academic Year 2021-22)

Semester V

| Course Code | Course Name | Teaching Scheme (Hours/week) | | | Examination Scheme and Marks | | | | | | Credit Scheme | | | | |
|--------------|--|------------------------------|-----------|----------|------------------------------|------------|------------|-----------|-----------|------------|---------------------|-----------|--------------|-----------|-----------|
| | | Lecture | Practical | Tutorial | Mid-Sem | End-Sem | Term work | Practical | Oral | Total | Lecture | Practical | Tutorial | Total | |
| 310241 | <u>Database Management Systems</u> | 03 | - | - | 30 | 70 | - | - | - | 100 | 03 | - | - | 03 | |
| 310242 | <u>Theory of Computation</u> | 03 | - | - | 30 | 70 | - | - | - | 100 | 03 | - | - | 03 | |
| 310243 | <u>Systems Programming and Operating System</u> | 03 | - | - | 30 | 70 | - | - | - | 100 | 03 | - | - | 03 | |
| 310244 | <u>Computer Networks and Security</u> | 03 | - | - | 30 | 70 | - | - | - | 100 | 03 | - | - | 03 | |
| 310245 | <u>Elective I</u> | 03 | - | - | 30 | 70 | - | - | - | 100 | 03 | - | - | 03 | |
| 310246 | <u>Database Management Systems Laboratory</u> | - | 04 | - | - | - | 25 | 25 | - | 50 | - | 02 | - | 02 | |
| 310247 | <u>Computer Networks and Security Laboratory</u> | - | 02 | - | - | - | 25 | - | 25 | 50 | - | 01 | - | 01 | |
| 310248 | <u>Laboratory Practice I</u> | - | 04 | - | - | - | 25 | 25 | - | 50 | - | 02 | - | 02 | |
| 310249 | <u>Seminar and Technical Communication</u> | - | 01 | - | - | - | 50 | - | - | 50 | - | 01 | - | 01 | |
| Total | | 15 | 11 | - | 150 | 350 | 125 | 50 | 25 | 700 | 15 | 06 | - | 21 | |
| 310250 | <u>Audit Course 5</u> | | | | | | | | | | | | Grade | | |
| | | | | | | | | | | | Total Credit | 15 | 06 | - | 21 |

Elective I

- Internet of Things and Embedded Systems
- Human Computer Interface
- Distributed Systems
- Software Project Management

Audit Course 5

- Cyber Security
- Professional Ethics and Etiquettes
- MOOC- Learn New Skills
- Engineering Economics
- Foreign Language

Laboratory Practice I

Assignments from **Systems Programming and Operating System** and **Elective I**


Head
Dept. of Computer Engineering
Bharati Vidyapeeth's
College of Engineering,
Pune - 412 115

Savitribai Phule Pune University
Third Year of Computer Engineering (2019 Course)
(With effect from Academic Year 2021-22)

Semester VI

| Course Code | Course Name | Teaching Scheme (Hours/week) | | | Examination Scheme and Marks | | | | | | Credit Scheme | | | |
|--------------|---|------------------------------|-----------|----------|------------------------------|------------|------------|-----------|-----------|------------|---------------|-----------|----------|-----------|
| | | Lecture | Practical | Tutorial | Mid-Sem | End-Sem | Term work | Practical | Oral | Total | Lecture | Practical | Tutorial | Total |
| 310251 | <u>Data Science and Big Data Analytics</u> | 03 | - | - | 30 | 70 | - | - | - | 100 | 03 | - | - | 03 |
| 310252 | <u>Web Technology</u> | 03 | - | - | 30 | 70 | - | - | - | 100 | 03 | - | - | 03 |
| 310253 | <u>Artificial Intelligence</u> | 03 | - | - | 30 | 70 | - | - | - | 100 | 03 | - | - | 03 |
| 310254 | <u>Elective II</u> | 03 | - | - | 30 | 70 | - | - | - | 100 | 03 | - | - | 03 |
| 310255 | <u>Internship**</u> | - | ** | - | - | - | 100** | - | - | 100 | - | 04** | - | 04 |
| 310256 | <u>Data Science and Big Data Analytics Laboratory</u> | - | 04 | - | - | - | 50 | 25 | - | 75 | - | 02 | - | 02 |
| 310257 | <u>Web Technology Laboratory</u> | - | 02 | - | - | - | 25 | - | 25 | 50 | - | 01 | - | 01 |
| 310258 | <u>Laboratory Practice II</u> | - | 04 | - | - | - | 50 | 25 | - | 75 | - | 02 | - | 02 |
| Total | | | | | | | | | | | 12 | 09 | - | 21 |
| Total | | 12 | 10 | - | 120 | 280 | 225 | 50 | 25 | 700 | 12 | 05 | - | 21 |

| | | | | | | | | | | | | | | |
|--------|-----------------------|--|--|--|--|--|--|--|--|--|--|--|--|--------------|
| 310259 | <u>Audit Course 6</u> | | | | | | | | | | | | | Grade |
|--------|-----------------------|--|--|--|--|--|--|--|--|--|--|--|--|--------------|

| | |
|--|--|
| Elective II <ul style="list-style-type: none"> • <u>Information Security</u> • <u>Augmented and Virtual Reality</u> <li style="background-color: yellow;">• <u>Cloud Computing</u> • <u>Software Modeling and Architectures</u> | Audit Course 6 <ul style="list-style-type: none"> • Digital and Social Media Marketing • Sustainable Energy Systems • Leadership and Personality Development • Foreign Language • MOOC- Learn New Skills |
|--|--|

Laboratory Practice II:
Assignments from **Artificial Intelligence** and **Elective II**.

**** Internship:**
Internship guidelines are provided in course curriculum sheet.

BE Computer Engineering 2019 Course tentative Curriculum structure:

Savitribai Phule Pune University
 Fourth Year of Computer Engineering (2019 Course)
 (With effect from Academic Year 2022-23)

Semester VII

| Course Code | Course Name | Teaching Scheme (Hours/week) | | | Examination Scheme and Marks | | | | | | Credit Scheme | | | |
|---------------------|-----------------------------------|------------------------------|-----------|----------|------------------------------|------------|------------|-----------|----------|------------|---------------|-----------|----------|-----------|
| | | Lecture | Practical | Tutorial | Mid-Sem | End-Sem | Term work | Practical | Oral/Pre | Total | Lecture | Practical | Tutorial | Total |
| 410241 | Design and Analysis of Algorithms | 03 | - | - | 30 | 70 | - | - | - | 100 | 3 | - | - | 3 |
| 410242 | Machine Learning | 03 | - | - | 30 | 70 | - | - | - | 100 | 3 | - | - | 3 |
| 410243 | Blockchain Technology | 03 | - | - | 30 | 70 | - | - | - | 100 | 3 | - | - | 3 |
| 410244 | Elective III | 03 | - | - | 30 | 70 | - | - | - | 100 | 3 | - | - | 3 |
| 410245 | Elective IV | 03 | - | - | 30 | 70 | - | - | - | 100 | 3 | - | - | 3 |
| 410246 | Laboratory Practice III | - | 04 | - | - | - | 50 | 50 | - | 100 | - | 2 | - | 2 |
| 410247 | Laboratory Practice IV | - | 02 | - | - | - | 50 | - | - | 50 | - | 1 | - | 1 |
| 410248 | Project Stage I | - | 02 | - | - | - | 50 | - | - | 50 | - | 2 | - | 2 |
| Total Credit | | | | | | | | | | | 15 | 05 | - | 20 |
| Total | | 15 | 08 | - | 150 | 350 | 150 | 50 | - | 700 | 15 | 05 | - | 20 |
| 410249 | Audit Course 7 | | | | | | | | | | Grade | | | |

Elective III

- 410244(A) Pervasive Computing
- 410244(B) Multimedia Techniques
- 410244(C) Cyber Security and Digital Forensics
- 410244(D) Object Oriented Modeling and Design
- 410244(E) Digital Signal Processing

Laboratory Practice III:

Laboratory assignments Courses- 410241, 410242, 410243

Audit Course 7(AC7) Options:


- AC7- I MOOC- Learn New Skills
- AC7- II Entrepreneurship Development
- AC7- III Botnet of Things
- AC7- IV 3D Printing
- AC7- V Industrial Safety and Environment Consciousness

Elective IV

- 410245(A) Information Retrieval
- 410245(B) GPU Programming and Architecture
- 410245(C) Mobile Computing
- 410245(D) Software Testing and Quality Assurance
- 410245(F) Compilers

Laboratory Practice IV:

Laboratory assignments Courses- 410244, 410245


Head
 Dept. of Computer Engineering,
 Bharati Vasthwan's
 College of Engineering
 Pune

Savitribai Phule Pune University
Final Year of Computer Engineering (2019 Course)
(With effect from Academic Year 2022-23)

Semester VIII

| Course Code | Course Name | Teaching Scheme (Hours/week) | | | Examination Scheme and Marks | | | | | | Credit Scheme | | | |
|---------------------|-----------------------------------|------------------------------|-----------|----------|------------------------------|------------|------------|-----------|-----------|------------|---------------|-----------|----------|--------------|
| | | Lecture | Practical | Tutorial | Mid-Sem | End-Sem | Term work | Practical | Oral/Pre | Total | Lecture | Practical | Tutorial | Total |
| 410250 | <u>High Performance Computing</u> | 03 | - | - | 30 | 70 | - | - | - | 100 | 03 | | | 03 |
| 410251 | <u>Deep Learning</u> | 03 | - | - | 30 | 70 | - | - | - | 100 | 03 | | | 03 |
| 410252 | <u>Elective V</u> | 03 | - | - | 30 | 70 | - | - | - | 100 | 03 | | | 03 |
| 410253 | <u>Elective VI</u> | 03 | - | - | 30 | 70 | - | - | - | 100 | 03 | | | 03 |
| 410254 | <u>Laboratory Practice V</u> | - | 02 | - | - | - | 50 | 50 | - | 100 | | 01 | | 01 |
| 410255 | <u>Laboratory Practice VI</u> | - | 02 | - | - | - | 50 | - | - | 50 | | 01 | | 01 |
| 410256 | <u>Project Stage II</u> | - | 06 | - | - | - | 100 | - | 50 | 150 | | 06 | | 06 |
| Total Credit | | | | | | | | | | | 12 | 08 | - | 20 |
| Total | | 12 | 10 | - | 120 | 280 | 200 | 50 | 50 | 700 | 12 | 08 | - | 20 |
| 410257 | <u>Audit Course 8</u> | | | | | | | | | | | | | Grade |

| Elective V | Elective VI |
|---|--|
| <u>410252(A) Natural Language Processing</u> <u>410252(B) Image Processing</u> <u>410252(C) Software Defined Networks</u> <u>410252(D) Advanced Digital Signal Processing</u> <u>410252(E) Open Elective I</u> | <u>410253(A) Pattern Recognition</u> <u>410253(B) Soft Computing</u> <u>410253(C) Business Intelligence</u> <u>410253(D) Quantum Computing</u> <u>410253(E) Open Elective II</u> |
| Lab Practice V: Laboratory assignments Courses- 410250, 410251 | Lab Practice VI: Laboratory assignments Courses- 410252, 410253 |
| Audit Course 8(AC8) Options: <u>AC8- I Usability Engineering</u> <u>AC8- II Conversational Interfaces</u> <u>AC8- III Social Media and Analytics</u> <u>AC8- IV MOOC- Learn New Skills</u> <u>AC8- V Emotional Intelligence</u> | |

Chak

Head

Dept. of Computer Engineering,
Bharati Vidyapeeth's
College of Engineering,
Pune - 412 115

#7/128

Responses Overview Active

81

0

03:06

1 Student PRN Number (0 point)

81
Responses

72159773E
72159816B
72159822G
...

7 respondents (9%) answered M for this question

| | | | | |
|-----------|-----------|-----------|-----------|-----------|
| 72159778F | 72220701J | 72159806E | 72159828F | |
| 72159740J | 72159728K | 72159803L | 72159773E | 72159801D |
| 72159762K | 72159760C | 72159791C | M | G |
| | | 72159763H | | 72159780H |
| | | | | 72220708F |
| | | | | 72159793K |
| | | | | 72159752B |
| | | | | 72159787E |

2 Name of Student (0 point)

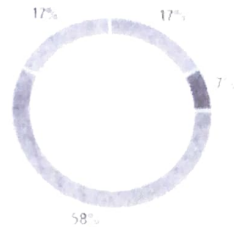
81
Responses

Prathamesh Naukarkar
CHETAN DALUNKHE
Abhishek Wani Shinde
...

6 respondents (7%) answered Patil for this question

| | | | |
|---------------------|----------------------|-----------------|--------------------|
| Vaibhav Patil | Harshavardhan Patil | Marpe | |
| | Tejal Rutuja | Ritesh Amratkar | Saahil |
| Vinod Mahalpure | Rachit Ingle | Patil | Atharv Itankar |
| Dhananjay Jagtap | Prathamesh Naukarkar | Sarang | Dattatray Abhivant |
| Prathamesh Prashant | | Pranav | Tejas Abhishek |

- 410244(A) Pervasive Computing 14
- 410244(B) Multimedia Techniques 6
- 410244(C) Cyber Security and Digital Forensics 47
- 410244(D) Object Oriented Modeling and Design 14
- 410244(E) Digital Signal Processing 0



DPK

Head
Dept. of Computer Engineering
Bharati Vidyapeeth's
College of Engineering,
Lavale, Pune - 412 115

Responses Overview Active

Responses

77

Average Score

0

Average Time

03:31

1. Student PRN Number (0 point)

77
Responses

Latest Responses

"72220472J"

"72220508C"

"72220512M"

...

7 respondents (9%) answered G for this question.

| | | | | |
|------------|-----------|------------|-----------|-----------|
| 72220527K | 72265043E | 72220516D | 72220483D | 72265051F |
| 72220484B | 72220556C | S191114266 | G | 72265047H |
| 72220534B | 72220525C | 72220563F | M | 72220489C |
| S191114267 | | 72220541E | 72220550D | 72220466D |
| | | | 72220472J | |

77
Responses

Latest responses
"Abhishek Jayant Bharajkar"
"Kaushal Patil"
"Vedant Kulkarni"
...

3 respondents (4%) answered Patil for this question.

Pathan Prachi Jadhav Yadav PAWAR Dadge Sejal Sanobar
Ibanekhalid Tanush Kartikeya **Patil** Yashika Aggarwal Suresh
PRATHAMESH Santosh Balaji Roshan popat tanpure
Akshay redekar Avinash

3. Selection of Elective-I Subject (0 point)

- 310245A: Elective I- Internet of Things and Embedded Systems 1
- 310245B: Elective I- Human Computer Interface 2
- 310245C: Elective I- Distributed Systems 1
- 310245D: Elective I- Software Project Management 73

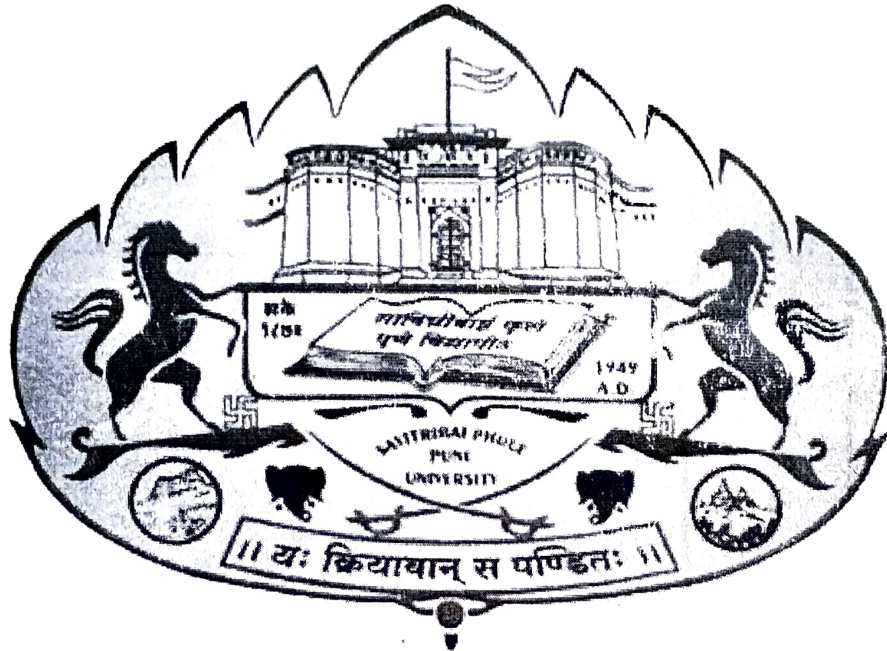


Handwritten signature

Head
Dept. of Computer Engineering,
Bharati Vidyapeeth's
College of Engineering,
Lavale, Pune - 412 115

Savitribai Phule Pune University

Faculty of Science and Technology



Syllabus for

**S.E (Electronics / Electronics & Telecommunication
Engineering)**

(Course 2019)

(w.e.f. June 2020)

Savitribai Phule Pune University, Pune
S.E. (Electronics / E&TC Engineering) 2019 Course
 (With effect from Academic Year 2020-21)

Semester-III

| Course Code | Course Name | Teaching Scheme (Hours/Week) | | | Examination Scheme and Marks | | | | | | Credit | | | |
|--------------|------------------------------|------------------------------|-----------|-----------|------------------------------|------------|-----------|------------|-----------|------------|-----------|-----------|-----------|-----------|
| | | Theory | Practical | Tutorial | In-Sem | End-Sem | TW | PR | OR | Total | TH | PR | TUT | Total |
| 207005 | Engineering Mathematics III | 04 | - | 01 | 30 | 70 | 25 | - | - | 125 | 04 | - | 01 | 05 |
| 204181 | Electronic Circuits | 03 | - | - | 30 | 70 | - | - | - | 100 | 03 | - | - | 03 |
| 204182 | Digital Circuits | 03 | - | - | 30 | 70 | - | - | - | 100 | 03 | - | - | 03 |
| 204183 | Electrical Circuits | 03 | - | - | 30 | 70 | - | - | - | 100 | 03 | - | - | 03 |
| 204184 | Data structures | 03 | - | - | 30 | 70 | - | - | - | 100 | 03 | - | - | 03 |
| 204185 | Electronic Circuit Lab | - | 02 | - | - | - | - | 50 | - | 50 | - | 01 | - | 01 |
| 204186 | Digital circuits Lab | - | 02 | - | - | - | - | 50 | - | 50 | - | 01 | - | 01 |
| 204187 | Electrical Circuit Lab | - | 02 | - | - | - | 25 | - | - | 25 | - | 01 | - | 01 |
| 204188 | Data Structures Lab | - | 02 | - | - | - | - | - | 25 | 25 | - | 01 | - | 01 |
| 204189 | Electronic Skill Development | - | 02 | - | - | - | 25 | - | - | 25 | - | 01 | - | 01 |
| 204190 | Mandatory Audit Course 3 & | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Total | | 16 | 10 | 01 | 150 | 350 | 75 | 100 | 25 | 700 | 16 | 05 | 01 | 22 |


 Head
 Dept. of Electronics & Telecommunication
 Engineering
 Bharati Vidyapeeth's
 College of Engineering,
 Lavale, Pune - 412 115

Savitribai Phule Pune University, Pune
S.E. (Electronics / E&TC Engineering) 2019 Course
 (With effect from Academic Year 2020-21)

Semester-IV

| Course Code | Course Name | Teaching Scheme (Hours/Week) | | | Examination Scheme and Marks | | | | | | Credit | | | |
|--------------|---|------------------------------|-----------|-----------|------------------------------|------------|------------|-----------|-----------|------------|-----------|-----------|-----------|-----------|
| | | Theory | Practical | Tutorial | In-Sem | End-Sem | TW | PR | OR | Total | TH | PR | TUT | Total |
| 204191 | Signals & Systems | 03 | - | 01 | 30 | 70 | 25 | - | - | 125 | 03 | - | 01 | 04 |
| 204192 | Control Systems | 03 | - | | 30 | 70 | | - | - | 100 | 03 | - | - | 03 |
| 204193 | Principles of Communication Systems | 03 | - | - | 30 | 70 | - | - | - | 100 | 03 | - | - | 03 |
| 204194 | Object Oriented Programming | 03 | - | - | 30 | 70 | - | - | - | 100 | 03 | - | - | 03 |
| 204195 | Signals & Control System Lab | | 02 | | | | 50 | | | 50 | | 01 | | 01 |
| 204196 | Principle of Communication Systems Lab | - | 02 | - | - | - | - | 50 | - | 50 | - | 01 | - | 01 |
| 204197 | Object Oriented Programming Lab | - | 02 | - | - | - | - | - | 50 | 50 | - | 01 | - | 01 |
| 204198 | Data Analytics Lab | | 02 | | | | - | | 25 | 25 | | 01 | | 01 |
| 204199 | Employability Skill Development | 02 | 02 | - | - | - | 50 | - | - | 50 | 02 | 01 | - | 03 |
| 204200 | Project Based Learning ⁿ | - | 04 | | | | 50 | | | 50 | | 02 | | 02 |
| 204201 | Mandatory Audit Course 4 ^{&} | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Total | | 14 | 14 | 01 | 120 | 280 | 175 | 50 | 75 | 700 | 14 | 07 | 01 | 22 |

Abbreviations:

In-Sem: In semester
PR : Practical

End-sem: End semester
OR : Oral

TH : Theory
TUT : Tutorial

TW : Term Work

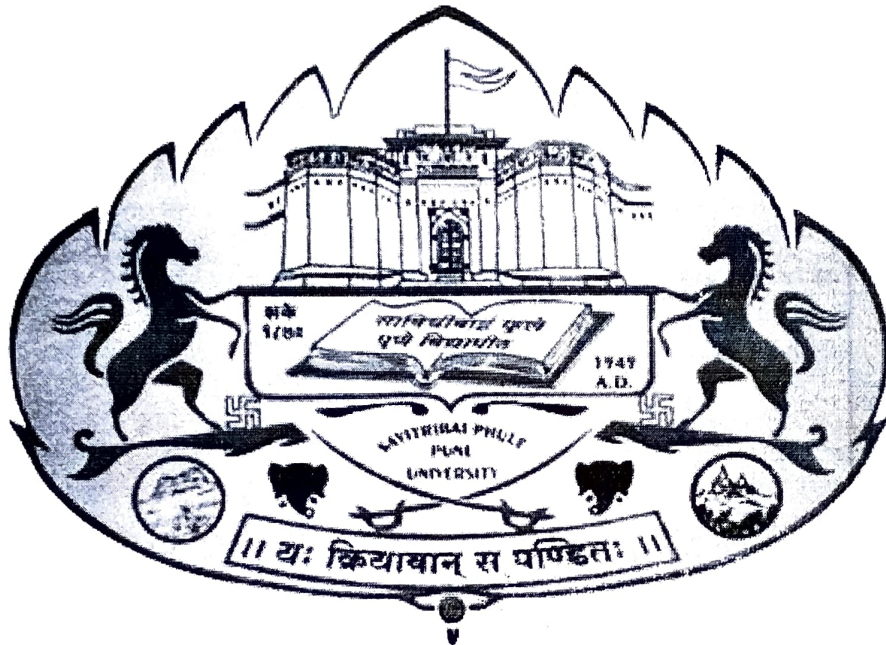
Note: Interested students of S.E. (Electronics/E&TC) can opt any one of the audit course from the list of audit courses prescribed by BoS (Electronics & Telecommunications Engineering)

Ahmmi
head

Dept. of Electronics & Telecommunications Engineering
Savitribai Phule Pune University
College of Engineering,
Lavale, Pune - 410 200

Savitribai Phule Pune University

Faculty of Science and Technology



Syllabus for

T.E (Electronics & Telecommunication Engineering)

(Course 2019)

(w.e.f. June 2021)

Savitribai Phule Pune University, Pune
T.E. (Electronics & Telecommunication Engineering) 2019 Course
 (With effect from Academic Year 2021-22)

Semester-V

| Course Code | Course Name | Teaching Scheme (Hours/Week) | | | Examination Scheme and Marks | | | | | Credit | | | | |
|---------------------|------------------------------|------------------------------|-----------|-----------|------------------------------|------------|-----------|------------|-----------|------------|-----------|-----------|-----------|-----------|
| | | Theory | Practical | Tutorial | In-Sem | End-Sem | TW | PR | OR | Total | TH | PR | TUT | Total |
| 304181 | Digital Communication | 03 | - | - | 30 | 70 | - | - | - | 100 | 03 | - | - | 03 |
| 304182 | Electromagnetic Field Theory | 03 | - | 01 | 30 | 70 | 25 | - | - | 125 | 03 | - | 01 | 04 |
| 304183 | Database Management | 03 | - | - | 30 | 70 | - | - | - | 100 | 03 | - | - | 03 |
| 304184 | Microcontrollers | 03 | - | - | 30 | 70 | - | - | - | 100 | 03 | - | - | 03 |
| 304185 | Elective - I | 03 | - | - | 30 | 70 | - | - | - | 100 | 03 | - | - | 03 |
| 304186 | Digital Communication Lab | - | 02 | - | - | - | - | 50 | - | 50 | - | 01 | - | 01 |
| 304187 | Database Management Lab | - | 02 | - | - | - | - | - | 25 | 25 | - | 01 | - | 01 |
| 304188 | Microcontroller Lab | - | 02 | - | - | - | - | 50 | - | 50 | - | 01 | - | 01 |
| 304189 | Elective I Lab | - | 02 | - | - | - | - | 25 | - | 25 | - | 01 | - | 01 |
| 304190 | Skill Development | - | 02 | - | - | - | 25 | - | - | 25 | - | 01 | - | 01 |
| 304191A | Mandatory Audit Course 5 & | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Total | | 15 | 10 | 01 | 150 | 350 | 50 | 125 | 25 | 700 | - | | | |
| Total Credit | | | | | | | | | | | 15 | 05 | 01 | 21 |

Elective -I

- 1) Digital Signal Processing
- 2) Electronic Measurements
- 3) Fundamentals of JAVA Programming
- 4) Computer Networks

Adhoni

Savitribai Phule Pune University, Pune
T.E. (Electronics & Telecommunication Engineering) 2019 Course
 (With effect from Academic Year 2021-22)

Semester-VI

| Course Code | Course Name | Teaching Scheme (Hours/Week) | | | Examination Scheme and Marks | | | | | | Credit | | | |
|---------------------|------------------------------|------------------------------|-----------|-----------|------------------------------|------------|------------|-----------|------------|------------|-----------|-----------|-----------|-----------|
| | | Theory | Practical | Tutorial | In-Sem | End-Sem | TW | PR | OR | Total | TH | PR | TUT | Total |
| 304192 | Cellular Networks | 03 | - | - | 30 | 70 | - | - | - | 100 | 03 | - | - | 03 |
| 304193 | Project Management | 03 | - | - | 30 | 70 | - | - | - | 100 | 03 | - | - | 03 |
| 304194 | Power Devices & Circuits | 03 | - | - | 30 | 70 | - | - | - | 100 | 03 | - | - | 03 |
| 304195 | Elective-II | 03 | - | - | 30 | 70 | - | - | - | 100 | 03 | - | - | 03 |
| 304196 | Cellular Networks Lab | - | 02 | - | - | - | - | - | 50 | 50 | - | 01 | - | 01 |
| 304197 | Power Devices & Circuits Lab | - | 02 | - | - | - | - | 50 | - | 50 | - | 01 | - | 01 |
| 304198 | Elective-II Lab | - | 02 | - | - | - | - | 25 | - | 25 | - | 01 | - | 01 |
| 304199 | Internship** | - | - | - | - | - | 100 | - | - | 100 | - | - | 04 | 04 |
| 304200 | Mini Project | - | 04 | - | - | - | 25 | - | 50 | 75 | - | 02 | - | 02 |
| 304191 B | Mandatory Audit Course 6 & | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Total | | 12 | 10 | 00 | 120 | 280 | 125 | 75 | 100 | 700 | | | | |
| Total Credit | | | | | | | | | | | 12 | 05 | 04 | 21 |

Abbreviations:

In-Sem: In semester

End-Sem: End semester

TH: Theory

TW : Term Work

PR: Practical

OR: Oral

TUT: Tutorial

Note: Students of T.E. (Electronics & Telecommunications) have to opt any one of the audit course from the list of audit courses prescribed by BoS (Electronics & Telecommunications Engineering)

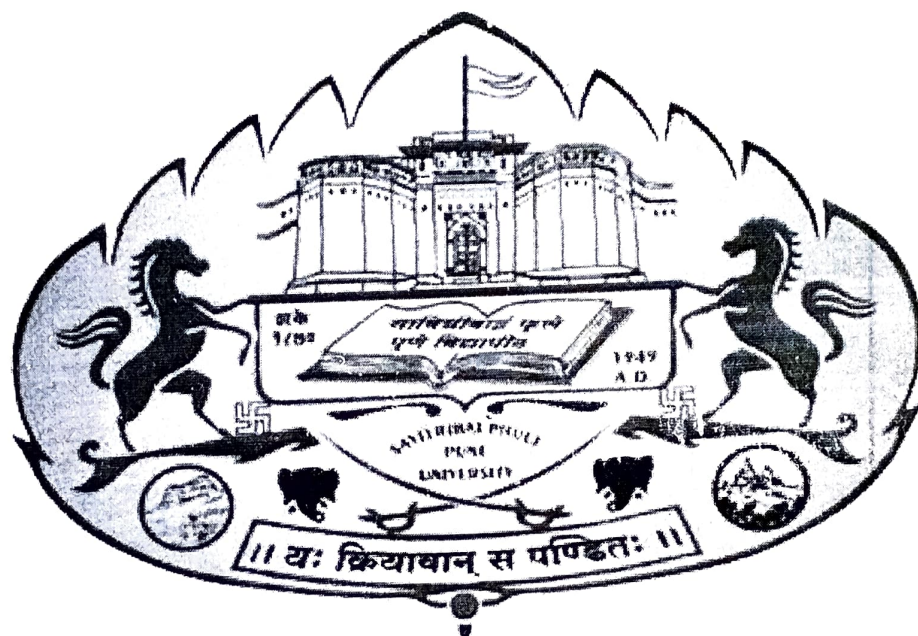
Elective -II

- 1) Digital Image Processing
- 2) Sensors in Automation
- 3) Advanced JAVA Programming
- 4) Embedded Processors
- 5) Network Security

Abhijit
 Head
 Dept. of Electronics & Telecommunication
 Engineering
 Sharati Vidyapeeth's
 College of Engineering
 Pune - 412 115

Savitribai Phule Pune University

Faculty of Science and Technology



Syllabus for

B.E (Electronics & Telecommunication Engineering)

(Course 2019)

(w.e.f. June 2022)


Savitribai Phule Pune University, Pune
B.E. (Electronics & Telecommunication) 2019 Course
 (With effect from Academic Year 2022-23)

Semester-VII

| Course Code | Course Name | Teaching Scheme (Hours/Week) | | | Examination Scheme and Marks | | | | | Credit | | | | |
|----------------------|---|------------------------------|-----------|----------|------------------------------|------------|------------|-----------|-----------|------------|-----------|-----------|----------|-----------|
| | | Theory | Practical | Tutorial | In-Sem | End-Sem | TW | PR | OR | Total | TH | PR | TUT | Total |
| 404181 | Radiation & Microwave Theory | 03 | - | - | 30 | 70 | - | - | - | 100 | 03 | - | - | 03 |
| 404182 | VLSI Design and Technology | 03 | - | - | 30 | 70 | - | - | - | 100 | 03 | - | - | 03 |
| 404183 | Cloud Computing | 03 | - | - | 30 | 70 | - | - | - | 100 | 03 | - | - | 03 |
| 404184 | Elective - 3 | 03 | - | - | 30 | 70 | - | - | - | 100 | 03 | - | - | 03 |
| 404185 | Elective - 4 | 03 | - | - | 30 | 70 | - | - | - | 100 | 03 | - | - | 03 |
| 404186 | Lab Practice - 1 (RMT & Cloud Computing) | - | 04 | - | - | - | 25 | - | 50 | 75 | - | 02 | - | 02 |
| 404187 | Lab Practice - 2 (VLSI Design & Elective -3) | - | 04 | - | - | - | 25 | 50 | - | 75 | - | 02 | - | 02 |
| 404188 | Project Stage - I | - | 02 | - | - | - | 50 | - | - | 50 | - | 01 | - | 01 |
| 404189 | Mandatory Audit Course 7 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Total | | 15 | 10 | - | 150 | 350 | 100 | 50 | 50 | 700 | - | - | - | - |
| Total Credits | | | | | | | | | | | 15 | 05 | - | 20 |

| Elective - 3 | Elective - 4 |
|---------------------------|-----------------------------------|
| 1. Speech Processing | 1. Data Mining |
| 2. PLC SCADA & Automation | 2. Electronic Product Development |
| 3. JAVA Script | 3. Deep Learning |
| 4. Embedded & RTOS | 4. Low Power CMOS |
| 5. Modernized IoT | 5. Smart Antennas |

| Mandatory Audit Course - 7 |
|----------------------------------|
| 1. Management Information System |
| 2. Patent Search & Analysis |
| 3. Knowledge Management |
| 4. Energy Economics & Policy |
| 5. Educational Leadership |
| 6. Human Resource Development |

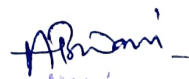

Head
 Dept. of Electronics & Telecommunication
 Engineering
 Bharati Vidyapeeth's
 College of Engineering,
 Lavale, Pune - 412 115

Savitribai Phule Pune University, Pune
B.E. (Electronics & Telecommunication) 2019 Course
 (With effect from Academic Year 2022-23)

Semester-VIII

| Course Code | Course Name | Teaching Scheme (Hours/Week) | | | Examination Scheme and Marks | | | | | | Credit | | | |
|----------------------|---------------------------------|------------------------------|-----------|-----------|------------------------------|------------|------------|-----------|------------|------------|-----------|-----------|-----------|-----------|
| | | Theory | Practical | Tutorial | In-Sem | End-Sem | TW | PR | OR | Total | TH | PR | TUT | Total |
| 404190 | Fiber Optic Communication | 03 | - | - | 30 | 70 | - | - | - | 100 | 03 | - | - | 03 |
| 404191 | Elective - 5 | 03 | - | - | 30 | 70 | - | - | - | 100 | 03 | - | - | 03 |
| 404192 | Elective - 6 | 03 | - | - | 30 | 70 | - | - | - | 100 | 03 | - | - | 03 |
| 404193 | Innovation & Entrepreneurship | - | - | 02 | - | - | 50 | - | - | 50 | - | - | 02 | 02 |
| 404194 | Digital Business Management | - | - | 02 | - | - | 50 | - | - | 50 | - | - | 02 | 02 |
| 404195 | Fiber Optic Lab | - | 02 | - | - | - | 25 | - | 50 | 75 | - | 01 | - | 01 |
| 404196 | Lab Practice - 3 (Elective - 5) | - | 02 | - | - | - | 25 | 50 | - | 75 | - | 01 | - | 01 |
| 404197 | Project Stage - II | - | 10 | - | - | - | 100 | - | 50 | 150 | - | 05 | - | 05 |
| Total | | 09 | 14 | 04 | 90 | 210 | 250 | 50 | 100 | 700 | - | - | - | - |
| Total Credits | | | | | | | | | | | 09 | 07 | 04 | 20 |

| Elective - 5 | Elective - 6 |
|-----------------------------------|----------------------|
| 1. Biomedical Signal Processing | 1. System on Chip |
| 2. Industrial Drives & Automation | 2. Nano Electronics |
| 3. Android Development | 3. Remote Sensing |
| 4. Embedded System Design | 4. Digital Marketing |
| 5. Mobile Computing | 5. Open Elective |


 Head
 Dept. of Electronics & Telecommunication
 Engineering
 Bharati Vastuparth's
 College of Engineering,
 Lavale, Pune - 412 115