

**EPCET - ARTIFICIAL INTELLIGENCE AND DATA SCIENCE**

**Autonomous Scheme Handbook**

**EPCET | ARTIFICIAL INTELLIGENCE AND DATA SCIENCE**

**(Batch 2024-2028)**



An Autonomous Institution Affiliated to Visvesvaraya Technological University (VTU) Belagavi Approved by  
All India Council for Technical Education (AICTE), New Delhi, Recognized by Govt. of Karnataka,  
UG Programs Accredited by National Board of Accreditation (NBA) : CSE, ECE & ISE  
[www.epcet.edu.in](http://www.epcet.edu.in)

## **CURRICULUM**

**Academic Year 2024 – 2025 (Autonomous)**

**Undergraduate Bachelor of Engineering Program- B.E.**

**Outcome Based Education (OBE)**

|                                 |
|---------------------------------|
| <b>Scheme for I TO VIII SEM</b> |
|---------------------------------|

**DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND DATA SCIENCE**

**East Point College of Engineering and Technology**

**An Autonomous Institution Affiliated to Visvesvaraya Technological University (VTU)  
Belagavi**

**Approved by All India Council for Technical Education (AICTE), New Delhi. Recognized  
by Govt. of Karnataka**

**UG programs Accredited by National Board of Accreditation (NBA): CSE, ECE & ISE**

### **About the Institute**

East Point College of Engineering and Technology (EPCET) was established in the year 1999 by M. G. Charitable Trust, Bangalore. The College is located in the eastern part of Bangalore at Bidarahalli, Virgonagar Post, off old Madras Road. It is at a 5 km distance from K R Puram, Bangalore.

The College is affiliated to Visvesvaraya Technological University (VTU), Belgaum and NAAC accredited with an A grade. All the Undergraduate B.E. and Post Graduate programs M.Tech. offered at EPCET have the approval of AICTE. The College at present offers programs in Artificial Intelligence and Data Science, Computer Science & Engineering, Information Science & Engineering, Electronics & Communication Engineering, Mechanical Engineering, CSE (IOT) and Civil Engineering leading to BE degree of VTU. The college is also offering three M. Tech programs- one each in Mechanical Engineering and Civil Engineering. At EPCET, more than 2500 students are studying in various programs, and there are more than 145 faculty members with about 25% of them having Ph.D. Qualifications. Faculty members, in addition to teaching and routine administrative work, undertake research. A few faculty members work in collaboration with prestigious national laboratories like LRDE- DRDO and publish their research findings in Refereed Peer Reviewed Journals. The programs offered by the college were accredited by NBA during 2008-2011 and 2023-2026.

All the students of the final year undergo internships in reputed industries and more than 80% of the students get placement offer on campus in companies like VMware, Cognizant, Infosys, Accenture, IBM, Covance, and so on. The departments offer various competency and skill development courses to prepare the students for the job market. In addition to this Institute has a unit “Industry Institute Integrated Learning Program (IILP)” with CISCO, AWS, Salesforce, Google Cloud, ARM, UiPath, Microsoft and Texas Instruments. These courses are conducted and students are encouraged and supported to obtain certification. A significant number of Alumni have assumed important positions in industry and government. A few alumni have set up their own start-ups in and around Bangalore and a considerable number have settled down overseas. The Institute has sufficient number of classrooms, Tutorial rooms, seminar halls, well-equipped laboratories, and a library with more than 50000 books. The campus is completely Wi-Fi enabled. In the laboratories, industry-standard software is made available for students to learn and practice

The college encourage faculty members to attend seminars, conferences organized by other Colleges and industries. Also, faculty have been given the freedom to organize seminars, conferences, and faculty development programs annually. Every year at least 5-6 seminars/ conferences/ FDP are conducted. Seminar halls are available within the college for organizing

### **Autonomous Scheme Handbook**

Student Development programmes and conferences. The College has entered into MoU with a number of industries and foreign Universities.

The campus has Medical College, a Superspecialist hospital with 800 beds, Pharmacy college, Two Nursing Institutes, a Higher Education Institute and a PU Institute. Students have opportunities to interact with students of medical, pharmacy nursing, management, commerce, and Science. Students have transport, hostel and sports facilities. There are more than 15 students' clubs for students to participate in various activities and experience. The College has set an ambitious vision and it is working continuously to adapt newer concepts in teaching, learning, and student assessments to realize its vision through working on its mission. The College aims to increase the students' satisfaction level with a holistic approach to education.

### **Institute Vision and Mission**

#### **Vision**

The East Point College of Engineering and Technology aspires to be a globally acclaimed institution, recognized for excellence in engineering education, applied research, and nurturing students for holistic development.

#### **Mission**

M1: To create Engineering graduates through quality education and to nurture innovation, creativity and excellence in teaching, learning and research.

M2: To serve the technical, scientific, economic and societal developmental needs of our communities.

M3: To induce integrity, teamwork, critical thinking, personality development, and ethics in students and to lay the foundation for lifelong learning.

### **About the department**

The Department of Artificial Intelligence and Data Science was established in the year 2021 with a vision of exploring the emerging trends in the domain of AI and training the students as professionals who can excel in the field and help for the betterment of the society. The Department has a team of well qualified and experienced faculty members who deliver the required skills to the students through a 360o teaching-learning environment. The faculty members are dedicated to impart not only the curriculum based formal education but also teaches beyond the curriculum to make the students ready for the upcoming challenges in the market. The Department faculty members have a good interest in research and have

**Autonomous Scheme Handbook**

several publications in reputed journals, conferences and multiple patents to their name.

The students of the Department are continuously mentored and motivated by the faculty members for the continuous improvement and participation in different activities. The students are motivated not only for academic excellence but also for the research & development. Also, the students are facilitated with the placement training sessions for a better opportunity.

About the program

|                             |   |
|-----------------------------|---|
| Year of Establishment       | 2021-22   |
| Name of the Program offered | <b>BE- ARTIFICIAL INTELLIGENCE AND DATA SCIENCE</b> |
| Intake                      | 60  |

**Department Vision and Mission**

**Vision**

The department orients towards identifying and exploring emerging global trends in Artificial Intelligence and Data Science through academic excellence and quality research, producing proficient professionals for a flourishing society.

**Mission**

M1: To nurture students with quality education, life-long learning, values and ethics.

M2: To produce ethical and competent professionals through comprehensive and holistic methodologies that align with the global industry demands in Artificial Intelligence and Data Science

**Program Educational Objectives (PEOs)**

PEO-1: Graduates will possess the ability to apply their knowledge of fundamental engineering, Computer Science and Data Science.

PEO-2: Graduates will have sound intercommunication skills, ethical values and responsibilities to work and serve for the development of the society.

PEO-3: Graduates will be able to understand, interpret, model and implement the Artificial Intelligence and Data Science based solutions for real world problems

**Autonomous Scheme Handbook**

**Program Specific Outcome (PSO)**

**PSO1:** To formulate solutions for the real-world problems with the application of basic engineering principles and technical skills of Artificial Intelligence and Data Science.

**PSO2:** To cater and enhance the analytical and technical skills of the graduates in order to be ready for the professional development, research and pursue higher education.

**Program Outcomes (POs)**

**PO1:** Engineering Knowledge: Apply knowledge of mathematics, natural science, computing, engineering fundamentals and an engineering specialization as specified in WK1 to WK4 respectively to develop to the solution of complex engineering problems.

**PO2:** Problem Analysis: Identify, formulate, review research literature and analyze complex engineering problems reaching substantiated conclusions with consideration for sustainable development. (WK1 to WK4)

**PO3:** Design/Development of Solutions: Design creative solutions for complex engineering problems and design/develop systems/components/processes to meet identified needs with consideration for the public health and safety, whole-life cost, net zero carbon, culture, society and environment as required. (WK5)

**PO4:** Conduct Investigations of Complex Problems: Conduct investigations of complex engineering problems using research-based knowledge including design of experiments, modelling, analysis & interpretation of data to provide valid conclusions. (WK8).

**PO5:** Engineering Tool Usage: Create, select and apply appropriate techniques, resources and modern engineering & IT tools, including prediction and modelling recognizing their limitations to solve complex engineering problems. (WK2 and WK6)

**PO6:** The Engineer and The World: Analyze and evaluate societal and environmental aspects while solving complex engineering problems for its impact on sustainability with reference to economy, health, safety, legal framework, culture and environment. (WK1, WK5, and WK7).

**PO7:** Ethics: Apply ethical principles and commit to professional ethics, human values, diversity and inclusion; adhere to national & international laws. (WK9)

**PO8:** Individual and Collaborative Team work: Function effectively as an individual, and as a member or leader in diverse/multi-disciplinary teams.

**PO9:** Communication: Communicate effectively and inclusively within the engineering community and society at large, such as being able to comprehend and write effective reports and design documentation, make effective presentations considering cultural, language, and learning differences

**PO10:** Project Management and Finance: Apply knowledge and understanding of engineering management principles and economic decision-making and apply these to one's own work, as a member and leader in a team, and to manage projects and in multidisciplinary environments.

**EPCET - ARTIFICIAL INTELLIGENCE AND DATA SCIENCE****Autonomous Scheme Handbook**

**PO11:** Life-Long Learning: Recognize the need for, and have the preparation and ability for i) independent and life-long learning ii) adaptability to new and emerging technologies and iii) critical thinking in the broadest context of technological change. (WK8)

**Total Courses**

| <b>Sl. No</b> | <b>Category</b>  | <b>No. of Courses</b> | <b>No. Of Credits</b> |
|---------------|--|-----------------------|-----------------------|
| <b>1</b>      | <b>Humanity and Social Science and management Course (HSMC)</b>  | <b>4</b>              | <b>6</b>              |
| <b>2</b>      | <b>Programming Language Courses (PLC)/Emerging Technology Courses (ETC)</b>  | <b>2</b>              | <b>6</b>              |
| <b>3</b>      | <b>Basic Science Courses (BSC)/-Applied Science Course (ASC)</b>   | <b>5</b>              | <b>20</b>             |
| <b>4</b>      | <b>Integrated Professional Core Course (IPCC)</b>  | <b>5</b>              | <b>20</b>             |
| <b>5</b>      | <b>Professional Core Course (PCC)</b>  | <b>9</b>              | <b>31</b>             |
| <b>6</b>      | <b>Professional Elective Course (PEC)</b>  | <b>4</b>              | <b>16</b>             |
| <b>7</b>      | <b>Open Elective Course (OEC)</b>  | <b>2</b>              | <b>7</b>              |
| <b>8</b>      | <b>Professional Core Course laboratory (PCCL)</b>  | <b>5</b>              | <b>5</b>              |
| <b>9</b>      | <b>Engineering Science Course (ESC)</b>  | <b>6</b>              | <b>18</b>             |
| <b>10</b>     | <b>Ability Enhancement Course (AEC)/ Skill Enhancement Course (SEC)/ Skill Development Course (SDC)/Universal Human Value Course (UHV)</b> | <b>7</b>              | <b>10</b>             |
| <b>11</b>     | <b>Internship (INT)</b>  | <b>1</b>              | <b>5</b>              |
| <b>12</b>     | <b>Project (PROJ)</b>  | <b>3</b>              | <b>16</b>             |
| <b>13</b>     | <b>Mandatory Course (Non-credit) - NCMC</b>  | <b>2</b>              | <b>-</b>              |
| <b>Total</b>  |  | <b>55</b>             | <b>160</b>            |

**EPCET - ARTIFICIAL INTELLIGENCE AND DATA SCIENCE****Autonomous Scheme Handbook****Semester wise Credit Breakdown for B.E Degree Curriculum Batch 2024-28 and 2025-2029**

| Sl. No | Category                        | Credits Per Semester |    |     |    |    |    |     |      | Total Credits | Credits in % |
|--------|---------------------------------|----------------------|----|-----|----|----|----|-----|------|---------------|--------------|
|        |                                 | I                    | II | III | IV | V  | VI | VII | VIII |               |              |
| 1      | HSMC                            | 1                    | 2  |     |    | 3  |    |     |      | 6             | 4%           |
| 2      | PLC/ETC                         | 3                    | 3  |     |    |    |    |     |      | 6             | 4%           |
| 3      | BSC/ASC                         | 8                    | 8  | 4   |    |    |    |     |      | 20            | 13%          |
| 4      | IPCC                            |                      |    | 4   | 4  | 4  | 4  | 4   |      | 20            | 13%          |
| 5      | PCC                             |                      |    | 7   | 9  | 4  | 3  | 8   |      | 31            | 19%          |
| 6      | PEC                             |                      |    |     |    | 4  | 8  | 4   |      | 16            | 10%          |
| 7      | OEC                             |                      |    |     |    |    | 3  | 4   |      | 7             | 4%           |
| 8      | PCCL                            |                      |    | 1   | 1  | 1  | 1  | 1   |      | 5             | 3%           |
| 9      | ESC                             | 6                    | 6  | 3   | 3  |    |    |     |      | 18            | 11%          |
| 10     | AEC/ SEC/<br>SDC/<br>TS/ASC/UHV | 2                    | 1  | 1   | 3  | 3  |    |     |      | 10            | 6%           |
| 11     | INT                             |                      |    |     |    |    |    |     | 5    | 5             | 3%           |
| 12     | PROJ                            |                      |    |     |    |    | 2  | 2   | 12   | 16            | 10%          |
| Total  |                                 | 20                   | 20 | 20  | 20 | 19 | 21 | 23  | 17   | 160           | 100%         |

# EPCET - ARTIFICIAL INTELLIGENCE AND DATA SCIENCE

## Autonomous Scheme Handbook

| East Point College of Engineering and Technology,<br>Scheme of Teaching and Examinations- 2024<br>Outcome-Based Education(OBE)and Choice Based Credit System(CBCS)<br>(Effective from the academic year 2024-2025) |               |                                      |  |                         |     |   |     |                     |           |           |             |         |
|--|---------------|--------------------------------------|--|-------------------------|-----|---|-----|---------------------|-----------|-----------|-------------|---------|
| I Semester (CSE Stream) (Physics Group)  |               |                                      |  |                         |     |   |     |                     |           |           |             |         |
| Sl. No   | Category      | Course Code                          | Course Title   | Teaching Dept/ Board    | L   | T | P   | Exam Duration (hrs) | CIE Marks | SEE Marks | Total Marks | Credits |
| 1  | ASC (IC)      | EPMTS101                             | Mathematics-I for CSE Stream   | TD: Maths<br>PSB: Maths | 2   | 2 | 2   | 3                   | 50        | 50        | 100         | 4       |
| 2  | ASC (IC)      | EPPHS102                             | Applied Physics for CSE Stream                                       | TD: Phy<br>PSB: Phy     | 2   | 2 | 2   | 3                   | 50        | 50        | 100         | 4       |
| 3  | ESC           | EPPPS103                             | Principles of Programming Using C                                    | TD: CSE<br>PSB:CSE      | 2   | 0 | 2   | 3                   | 50        | 50        | 100         | 3       |
| 4  | ESC-I         | EPESK104x                            | Engineering Science Course-I<br>(select any one)                     | Respective Dept         | 3   | 0 | 0   | 3                   | 50        | 50        | 100         | 3       |
| 5  | ETC-I / PLC-I | EPETK105x /<br>EPPLK105x             | Emerging Technology Course-I /<br>Programming Languages Course-I     | Respective Dept         | 3/2 | 0 | 0/2 | 3                   | 50        | 50        | 100         | 3       |
| 6  | AEC           | EPENK106 /<br>EPPWK106               | Communicative English /<br>Professional Writing Skills               | Humanities              | 1   | 0 | 0   | 1                   | 50        | 50        | 100         | 1       |
| 7  | HSMC          | EPSKK107 /<br>EPBKK107 /<br>EPICK107 | Sanskritika Kannada / Balake<br>Kannada / Indian Constitution        | Humanities              | 1   | 0 | 0   | 1                   | 50        | 50        | 100         | 1       |
| 8  | AEC/SDC       | EPIDK158 /<br>EPSFK158               | Innovation and Design Thinking /<br>Scientific Foundations of Health | Any                     | 1   | 0 | 0   | 1                   | 50        | 50        | 100         | 1       |
|  | <b>Total</b>  |                                      |  |                         |     |   |     |                     | 400       | 400       | 800         | 20      |



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|--|-----------------|--------------------------------|---|-------------------------|-----|---|-----|-----------------|-----------|-----------|-------------|---------|
| II Semester (CSE Stream) Studied Physics Cycle in 1 <sup>st</sup> Sem  |                 |                                |   |                         |     |   |     |                 |           |           |             |         |
| Sl. No   | Category        | Course Code                    | Course Title  | Teaching Dept/ Board    | L   | T | P   | Exam Dur. (hrs) | CIE Marks | SEE Marks | Total Marks | Credits |
| 1  | ASC (IC)        | EPMTS201                       | Mathematics-II for CSE Stream                                     | TD: Maths<br>PSB: Maths | 2   | 2 | 2   | 3               | 50        | 50        | 100         | 4       |
| 2  | ASC (IC)        | EPCHE202                       | Applied Chemistry for CSE Stream                                  | TD: Che<br>PSB: Che     | 2   | 2 | 2   | 3               | 50        | 50        | 100         | 4       |
| 3  | ESC             | EPEDK203                       | Computer-Aided Engineering Drawing                                | TD: Mech<br>PSB: Mech   | 2   | 0 | 2   | 3               | 50        | 50        | 100         | 3       |
| 4  | ESC-II          | EPESK204x                      | Engineering Science Course-II (select any one)                    | Respective Dept         | 3   | 0 | 0   | 3               | 50        | 50        | 100         | 3       |
| 5  | ETC-II / PLC-II | EPETK205x / EPPLK205x          | Emerging Technology Course-II / Programming Languages Course-II   | Respective Dept         | 3/2 | 0 | 0/2 | 3               | 50        | 50        | 100         | 3       |
| 6  | AEC             | EPPWK206 / EPENK206            | Professional Writing Skills / Communicative English               | Humanities              | 1   | 0 | 0   | 1               | 50        | 50        | 100         | 1       |
| 7  | HSMC            | EPICK207 / EPSKK207 / EPBKK207 | Indian Constitution / Samskrutika Kannada / Balake Kannada        | Humanities              | 1   | 0 | 0   | 1               | 50        | 50        | 100         | 1       |
| 8  | HSMS/SDC        | EPSF258 / EPIDK258             | Scientific Foundations of Health / Innovation and Design Thinking | Any                     | 1   | 0 | 0   | 1               | 50        | 50        | 100         | 1       |
|  | <b>Total</b>    |                                |   |                         |     |   |     |                 | 400       | 400       | 800         | 20      |

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## Autonomous Scheme Handbook

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|--|---------------|--------------------------------|---|-------------------------|-----|---|-----|---------------------|-----------|-----------|-------------|---------|
| I Semester (CSE Stream) (Chemistry Group)  |               |                                |   |                         |     |   |     |                     |           |           |             |         |
| Sl. No   | Category      | Course Code                    | Course Title  | Teaching Dept/ Board    | L   | T | P   | Exam Duration (hrs) | CIE Marks | SEE Marks | Total Marks | Credits |
| 1  | ASC (IC)      | EPMTS101                       | Mathematics-I for CSE Stream                                      | TD: Maths<br>PSB: Maths | 2   | 2 | 2   | 3                   | 50        | 50        | 100         | 4       |
| 2  | ASC (IC)      | EPCHE102                       | Applied Chemistry for CSE Stream                                  | TD: Che<br>PSB: Che     | 2   | 2 | 2   | 3                   | 50        | 50        | 100         | 4       |
| 3  | ESC           | EPEDK103                       | Computer-Aided Engineering Drawing                                | TD: Mech<br>PSB: Mech   | 2   | 0 | 2   | 3                   | 50        | 50        | 100         | 3       |
| 4  | ESC-I         | EPESK104x                      | Engineering Science Course-I (select any one)                     | Respective Dept         | 3   | 0 | 0   | 3                   | 50        | 50        | 100         | 3       |
| 5  | ETC-I / PLC-I | EPETK105x / EPPLK105x          | Emerging Technology Course-I / Programming Languages Course-I     | Respective Dept         | 3/2 | 0 | 0/2 | 3                   | 50        | 50        | 100         | 3       |
| 6  | AEC           | EPPWK106 / EPENK106            | Professional Writing Skills / Communicative English               | Humanities              | 1   | 0 | 0   | 1                   | 50        | 50        | 100         | 1       |
| 7  | HSMC          | EPICK107 / EPSKK107 / EPBKK107 | Indian Constitution / Samskrutika Kannada / Balake Kannada        | Humanities              | 1   | 0 | 0   | 1                   | 50        | 50        | 100         | 1       |
| 8  | HSMS/SDC      | EPSFK158 / EPIDK158            | Scientific Foundations of Health / Innovation and Design Thinking | Any                     | 1   | 0 | 0   | 1                   | 50        | 50        | 100         | 1       |
|  | <b>Total</b>  |                                |   |                         |     |   |     |                     | 400       | 400       | 800         | 20      |

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|--|---|--------------------------------|---|-------------------------|-----|---|-----|---------------------|-----------|-----------|-------------|---------|
|  | II Semester (CSE Stream) Studied Chemistry Cycle in 1 <sup>st</sup> Sem |                                |   |                         |     |   |     |                     |           |           |             |         |
| Sl. No   | Category  | Course Code                    | Course Title  | Teaching Dept/ Board    | L   | T | P   | Exam Duration (hrs) | CIE Marks | SEE Marks | Total Marks | Credits |
| 1  | ASC (IC)  | EPMTS201                       | Mathematics-II for CSE Stream                                     | TD: Maths<br>PSB: Maths | 2   | 2 | 2   | 3                   | 50        | 50        | 100         | 4       |
| 2  | ASC (IC)  | EPPHS202                       | Applied Physics for CSE Stream                                    | TD: Phy<br>PSB: Phy     | 2   | 2 | 2   | 3                   | 50        | 50        | 100         | 4       |
| 3  | ESC   | EPPPS203                       | Principles of Programming Using C                                 | TD: CSE<br>PSB: CSE     | 2   | 0 | 2   | 3                   | 50        | 50        | 100         | 3       |
| 4  | ESC-II  | EPESK204x                      | Engineering Science Course-II (select any one)                    | Respective Dept         | 3   | 0 | 0   | 3                   | 50        | 50        | 100         | 3       |
| 5  | PLC-II / ETC-II   | EPPLK205x / EPETK205x          | Programming Language Course-II / Emerging Technology Course-II    | Respective Dept         | 2/3 | 0 | 2/0 | 3                   | 50        | 50        | 100         | 3       |
| 6  | AEC   | EPENK206 / EPPWK206            | Communicative English / Professional Writing Skills               | Humanities              | 1   | 0 | 0   | 1                   | 50        | 50        | 100         | 1       |
| 7  | HSMC  | EPSKK207 / EPBKK207 / EPICK207 | Samskrutika Kannada / Balake Kannada / Indian Constitution        | Humanities              | 1   | 0 | 0   | 1                   | 50        | 50        | 100         | 1       |
| 8  | AEC/SDC   | EPIDK258 / EPSFK258            | Innovation and Design Thinking / Scientific Foundations of Health | Any                     | 1   | 0 | 0   | 1                   | 50        | 50        | 100         | 1       |
|  | <b>Total</b>  |                                |   |                         |     |   |     |                     | 400       | 400       | 800         | 20      |

# EPCET - ARTIFICIAL INTELLIGENCE AND DATA SCIENCE

## Autonomous Scheme Handbook

| 1 <sup>st</sup> Semester               |   |   |   |   |  |  |   |   |   |
|--|---|---|---|---|--|--|---|---|---|
| (ESC-I) Engineering Science Courses-I  |   |   |   |   | (ETC-I ) Emerging Technology Courses-I |  |   |   |   |
| Code                                   | Title                                     | L | T | P | Code                                   | Title                                    | L | T | P |
| EPESK104A                              | Introduction to Civil Engineering         | 3 | 0 | 0 | EPETK105A                              | Smart Materials and Systems              | 3 | 0 | 0 |
| EPESK104B                              | Introduction to Electrical Engineering    | 3 | 0 | 0 | EPETK105B                              | Green Buildings                          | 3 | 0 | 0 |
| EPESK104C                              | Introduction to Electronics Communication | 3 | 0 | 0 | EPETK105C                              | Introduction to Nano Technology          | 3 | 0 | 0 |
| EPESK104D                              | Introduction to Mechanical Engineering    | 3 | 0 | 0 | EPETK105D                              | Introduction to Sustainable Engineering  | 3 | 0 | 0 |
| EPESK104E                              | Introduction to C Programming             | 2 | 0 | 2 | EPETK105E                              | Renewable Energy Sources                 | 3 | 0 | 0 |
|  |   |   |   |   | EPETK105F                              | Waste Management                         | 3 | 0 | 0 |
|  |   |   |   |   | EPETK105G                              | Emerging Applications of Biosensors      | 3 | 0 | 0 |
|  |   |   |   |   | EPETK105H                              | Introduction to Internet of Things (IoT) | 3 | 0 | 0 |
|  |   |   |   |   | EPETK105I                              | Introduction to Cyber Security           | 3 | 0 | 0 |
|  |   |   |   |   | EPETK105J                              | Introduction to Embedded System          | 3 | 0 | 0 |
| (PLC-I) Programming Language Courses-I |   |   |   |   |  |  |   |   |   |
| Code                                   | Title                                     | L | T | P |  |  |   |   |   |
| EPPLK105A                              | Introduction to Web Programming           | 2 | 0 | 2 |  |  |   |   |   |
| EPPLK105B                              | Introduction to Python Programming        | 2 | 0 | 2 |  |  |   |   |   |
| EPPLK105C                              | Basics of JAVA Programming                | 2 | 0 | 2 |  |  |   |   |   |
| EPPLK105D                              | Introduction to C++ Programming           | 2 | 0 | 2 |  |  |   |   |   |

# EPCET - ARTIFICIAL INTELLIGENCE AND DATA SCIENCE

## Autonomous Scheme Handbook

| 2 <sup>nd</sup> Semester               |   |   |   |   |  |  |   |   |   |
|--|---|---|---|---|--|--|---|---|---|
| (ESC-I) Engineering Science Courses-I  |   |   |   |   | (ETC-I ) Emerging Technology Courses-I |  |   |   |   |
| Code                                   | Title                                     | L | T | P | Code                                   | Title                                    | L | T | P |
| BESCK204A                              | Introduction to Civil Engineering         | 3 | 0 | 0 | BETCK205A                              | Smart Materials and Systems              | 3 | 0 | 0 |
| BESCK204B                              | Introduction to Electrical Engineering    | 3 | 0 | 0 | BETCK205B                              | Green Buildings                          | 3 | 0 | 0 |
| BESCK204C                              | 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 |
| BESCK204E                              | Introduction to C Programming             | 2 | 0 | 2 | BETCK205E                              | Renewable Energy Sources                 | 3 | 0 | 0 |
|  |   |   |   |   | BETCK205F                              | Waste Management                         | 3 | 0 | 0 |
|  |   |   |   |   | BETCK205G                              | Emerging Applications of Biosensors      | 3 | 0 | 0 |
|  |   |   |   |   | BETCK205H                              | Introduction to Internet of Things (IoT) | 3 | 0 | 0 |
|  |   |   |   |   | BETCK205I                              | Introduction to Cyber Security           | 3 | 0 | 0 |
|  |   |   |   |   | BETCK205J                              | Introduction to Embedded System          | 3 | 0 | 0 |
| (PLC-I) Programming Language Courses-I |   |   |   |   |  |  |   |   |   |
| Code                                   | Title                                     | L | T | P |  |  |   |   |   |
| BPLCK205A                              | Introduction to Web Programming           | 2 | 0 | 2 |  |  |   |   |   |
| BPLCK205B                              | Introduction to Python Programming        | 2 | 0 | 2 |  |  |   |   |   |
| BPLCK205C                              | Basics of JAVA Programming                | 2 | 0 | 2 |  |  |   |   |   |
| BPLCK205D                              | Introduction to C++ Programming           | 2 | 0 | 2 |  |  |   |   |   |

## EPCET - ARTIFICIAL INTELLIGENCE AND DATA SCIENCE

### Autonomous Scheme Handbook

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)

\*\* B.MAT301SHall have the 03 hours of theory examination (SEE), however, practical sessions (subject-wise) 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.

Procedure: 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 of the course required experiential 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

#### Credit Definition:

1-hour Lecture (L) per week = 1 Credit      04-Credits courses are to be designed for 50 hours of Teaching-Learning Session

2-hours Tutorial (T) per week = 1 Credit      04-Credits courses are to be designed for 40 hours' theory and 12-14 hours of practical sessions

2-hours Practical / Drawing (P) per week = 1 Credit      03-Credits courses are to be designed for 40 hours of Teaching-Learning Session

2-hours Practical / Drawing (P) per week = 1 Credit      02-Credits courses are to be designed for 25 hours of Teaching-Learning Session

**Autonomous Scheme Handbook**

2-hours Skill Development Activities (SDA) per week = 1 Credit    01-Credit courses are to be designed for 12-15 hours of Teaching-Learning sessions

Student's Induction Program: Motivating (Inspiring) Activities under the Induction program - The main aim of the induction program is to provide newly admitted students a broad understanding of society, relationships, and values. Along with the knowledge and skill of his/her study, students' character needs to be nurtured as an essential quality by which s/he should understand and fulfill the responsibility as an engineer. The following activities are to be covered in 21 days. Physical Activity, Creative Arts, Universal Human Values, Literary, Proficiency Modules, Lectures by Eminent People, Visits to Local areas, Familiarization with Department/Branch and Innovation, etc. For details, refer the ANNEXURE-I of Induction Programs notification of the University published at the beginning of the 1st semester.

AICTE Activity Points to be earned by students admitted to BE/B.Tech. / B. Plan day college program (For more details refer to Chapter 6, AICTE Activity Point Program, Model Internship Guidelines). Over and above the academic grades, every regular student admitted to the 4 years Degree program and every student entering 4 years Degree programs through lateral entry, shall earn 100 and 75 Activity Points respectively for the award of degree through AICTE Activity Point Program. Students transferred from other Universities to the 5th 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, any time during the semester weekends, and holidays, as per the liking and convenience of the student from the year of entry to the program. However, the minimum hours' requirement should be fulfilled. Activity Points (non-credit) do not affect SGPA/CGPA and shall not be considered for vertical progression. In case students fail to earn the prescribed activity Points, an Eighth Semester Grade Card shall be issued only after earning the required activity points. Students shall be admitted for the award of the degree only after the release of the Eighth semester Grade Card.

# EPCET - ARTIFICIAL INTELLIGENCE AND DATA SCIENCE

## Autonomous Scheme Handbook

### III Semester

| BE in Artificial Intelligence and Data Science<br><b>Scheme of Teaching III Semester</b><br>Outcome Based Education and Choice Based Credit System (CBCS)<br>Effective from the academic year Batch - 2024-2028 |         |                      |  |                            |                      |          |           |             |            |             |           |
|---|---------|----------------------|--|----------------------------|----------------------|----------|-----------|-------------|------------|-------------|-----------|
| Sl. No  | Course  | Course Code          | Course Title                           | Teaching Dept. (TD)/ Board | Teaching Hours /Week |          |           | Examination |            |             |           |
|   |         |                      |  |                            | Theory               | Tutorial | Practical | CIE Marks   | SEE Marks  | Total Marks | Credits   |
|   |         |                      |  |                            | L                    | T        | P         |             |            |             |           |
| 1   | BSC     | 24AD31               | Mathematics III for CSE                | TD: Maths<br>PSB: Maths    | 3                    | 2        | 0         | 50          | 50         | 100         | 04        |
| 2   | PCC     | 24AD32               | Operating systems                      | TD:AD<br>PSB AD            | 4                    | 0        | 0         | 50          | 50         | 100         | 04        |
| 3   | PCC     | 24AD33               | Data Structure & Applications          | TD:AD<br>PSB AD            | 3                    | 0        | 0         | 50          | 50         | 100         | 03        |
| 4   | IPCC    | 24AD34               | Digital Design & Computer Organization | TD:AD<br>PSB AD            | 3                    | 0        | 2         | 50          | 50         | 100         | 04        |
| 5   | PCCL    | 24ADL35              | Data Structure & Applications lab      | TD:AD<br>PSB AD            | 0                    | 0        | 2         | 50          | 50         | 100         | 01        |
| 6   | ESC/PLC | 24AD36X              | ESC/ETC/PLC                            | TD:AD<br>PSB AD            | 2                    | 0        | 2         | 50          | 50         | 100         | 03        |
| 7   | AEC     | 24AD37X              | Ability Enhancement Course - III       | TD:AD<br>PSB AD            | 0                    | 0        | 2         | 50          | 50         | 100         | 01        |
| 8   | MC      | 24NS38/24PE38/24YO38 | NSS/ PE/ YOGA                          | NSS/YOGA/ PE coordinator   | 0                    | 0        | 2         | 100         | -          | 100         | -         |
| <b>Total</b>  |         |                      |  |                            |                      |          |           | <b>450</b>  | <b>350</b> | <b>800</b>  | <b>20</b> |

**NOTE: Minimum of 1 subject should have a tutorial component.**



## EPCET - ARTIFICIAL INTELLIGENCE AND DATA SCIENCE

### Autonomous Scheme Handbook

| Engineering Science Course (ESC/ETC/PLC) |                                       |         |                                     |
|--|---------------------------------------|---------|-------------------------------------|
| 24AD36A                                  | Object Oriented Programming with Java | 24AD36C | Python Programming for Data Science |
| 24AD36B                                  | Object Oriented Programming with C++  |         |                                     |
| Ability Enhancement Course – III         |                                       |         |                                     |
| 24AD37A                                  | Data Analytics with Excel             | 24AD37C | Prompt Engineering with ChatGPT     |
| 24AD37B                                  | Project Management with Git           |         |                                     |

# EPCET - ARTIFICIAL INTELLIGENCE AND DATA SCIENCE

## Autonomous Scheme Handbook

### IV Semester

| BE in Artificial Intelligence and Data Science<br><b>Scheme of Teaching IV Semester</b><br>Outcome Based Education and Choice Based Credit System (CBCS)<br>Effective from the academic year Batch - 2024-2028 |             |                              |                                   |                                |                      |          |           |             |            |             |           |
|--|-------------|------------------------------|-----------------------------------|--------------------------------|----------------------|----------|-----------|-------------|------------|-------------|-----------|
| Sl. No   | Course      | Course Code                  | Course Title                      | Teaching Dept. (TD)/ Board     | Teaching Hours /Week |          |           | Examination |            |             |           |
|  |             |                              |                                   |                                | Theory               | Tutorial | Practical | CIE Marks   | SEE Marks  | Total Marks | Credits   |
|  |             |                              |                                   |                                | L                    | T        | P         |             |            |             |           |
| 1  | PCC         | 24AD41                       | Design and Analysis Algorithm     | TD:AD<br>PSB AD                | 3                    | 0        | 0         | 50          | 50         | 100         | 3         |
| 2  | PCC         | 24AD42                       | Database Management system        | TD:AD<br>PSB AD                | 3                    | 0        | 0         | 50          | 50         | 100         | 3         |
| 3  | PCC         | 24AD43                       | Principles of AI                  | TD:AD<br>PSB AD                | 3                    | 0        | 0         | 50          | 50         | 100         | 3         |
| 4  | IPCC        | 24AD44                       | Data Analytics with R             | TD:AD<br>PSB AD                | 3                    | 0        | 2         | 50          | 50         | 100         | 4         |
| 5  | PCCL        | 24ADL45                      | Design and Analysis Algorithm Lab | TD:AD<br>PSB AD                | 0                    | 0        | 2         | 50          | 50         | 100         | 1         |
| 6  | BSC/ES<br>C | 24AD46X                      | ESC                               | TD:AD<br>PSB AD                | 2                    | 2        | 0         | 50          | 50         | 100         | 3         |
| 7  | AEC         | 24AD47X                      | Ability Enhancement Course        | TD:AD<br>PSB AD                | 0                    | 0        | 2         | 50          | 50         | 100         | 1         |
| 8  | UHV         | 24UH48                       | Universal Human Values            | Any dept                       | 2                    | 0        | 0         | 50          | 50         | 100         | 2         |
| 9  | MC          | 24NS49/<br>24PE49/<br>24YO49 | NSS/PE/YOGA                       | NSS/YOGA/<br>PE<br>coordinator | 0                    | 0        | 2         | 100         | -          | 100         | -         |
| <b>Total</b>   |             |                              |                                   |                                |                      |          |           | <b>500</b>  | <b>400</b> | <b>900</b>  | <b>20</b> |

**NOTE: Minimum of 1 subject should have a tutorial component.**

Autonomous Scheme Handbook

| Engineering Science Course (ESC/ETC/PLC) |                                 |         |                        |
|--|---------------------------------|---------|------------------------|
| 24AD46A                                  | Algorithmic Game Theory         | 24AD46C | Graph Theory           |
| 24AD46B                                  | Discrete Mathematics Structures | 24AD46D | Optimization Technique |
| Ability Enhancement Course – III         |                                 |         |                        |
| 24AD47A                                  | Angular JS                      | 24AD47C | MERN                   |
| 24AD47B                                  | DBMS with SQL and Mango DB      |         |                        |

# EPCET - ARTIFICIAL INTELLIGENCE AND DATA SCIENCE

## Autonomous Scheme Handbook

### V Semester

| BE in Artificial Intelligence and Data Science<br><b>Scheme of Teaching V Semester</b><br>Outcome Based Education and Choice Based Credit System (CBCS)<br>Effective from the academic year Batch - 2024-2028 |        |                              |   |                                |                      |          |           |             |            |             |           |
|---|--------|------------------------------|---|--------------------------------|----------------------|----------|-----------|-------------|------------|-------------|-----------|
| Sl. No  | Course | Course Code                  | Course Title                                  | Teaching Dept. (TD)/ Board     | Teaching Hours /Week |          |           | Examination |            |             |           |
|   |        |                              |   |                                | Theory               | Tutorial | Practical | CIE Marks   | SEE Marks  | Total Marks | Credits   |
|   |        |                              |   |                                | L                    | T        | P         |             |            |             |           |
| 1   | HSMC   | 24AD51                       | Software Engineering with Project Management  | TD:AD<br>PSB AD                | 3                    | 0        | 0         | 50          | 50         | 100         | 3         |
| 2   | PCC    | 24AD52                       | Theory of computations                        | TD:AD<br>PSB AD                | 3                    | 2        | 0         | 50          | 50         | 100         | 4         |
| 3   | IPCC   | 24AD53                       | Computer Networks                             | TD:AD<br>PSB AD                | 3                    | 0        | 2         | 50          | 50         | 100         | 4         |
| 4   | PCCL   | 24ADL54                      | Data Visualization using Power BI and Tableau | TD:AD<br>PSB AD                | 0                    | 0        | 2         | 50          | 50         | 100         | 1         |
| 5   | PEC    | 24AD55X                      | Professional Elective 1                       | TD:AD<br>PSB AD                | 4                    | 0        | 0         | 50          | 50         | 100         | 4         |
| 6   | AEC    | 24RM56                       | Research Methodology and IPR                  | Any dept                       | 3                    | 0        | 0         | 50          | 50         | 100         | 3         |
| 7   | NCMC   | 24ES57                       | Environmental Studies and E-waste Management* | TD:CV<br>PSB CV                | 1                    | 0        | 0         | 50          | 50         | 100         | -         |
| 8   | MC     | 24NS58/<br>24PE58/<br>24YO58 | NSS/PE/YOGA                                   | NSS/YOGA/<br>PE<br>coordinator | 0                    | 0        | 2         | 100         | -          | 100         | -         |
| <b>Total</b>  |        |                              |   |                                |                      |          |           | <b>450</b>  | <b>350</b> | <b>800</b>  | <b>19</b> |

**NOTE: Minimum of 1 subject should have a tutorial component.**

\*Environmental Studies and E-waste Management is under the category of NCMC, 1 hour teaching per week has to be allocated in the timetable.

|              |   |         |                       |
|--------------|---|---------|-----------------------|
| <b>PEC-1</b> |   |         |                       |
| 24AD55A      | Introduction to Computational Learning Theory | 24AD55C | Business Intelligence |
| 24AD55B      | Data Mining & Warehousing                     | 24AD55D | Cloud Computing       |

# EPCET - ARTIFICIAL INTELLIGENCE AND DATA SCIENCE

## Autonomous Scheme Handbook

### VI Semester

| BE in Artificial Intelligence and Data Science<br><b>Scheme of Teaching VI Semester</b><br>Outcome Based Education and Choice Based Credit System (CBCS)<br>Effective from the academic year Batch - 2024-2028 |        |                        |                           |                            |                      |          |           |             |            |             |           |
|--|--------|------------------------|---------------------------|----------------------------|----------------------|----------|-----------|-------------|------------|-------------|-----------|
| Sl. No   | Course | Course Code            | Course Title              | Teaching Dept. (TD)/ Board | Teaching Hours /Week |          |           | Examination |            |             |           |
|  |        |                        |                           |                            | Theor y              | Tutorial | Practical | CIE Marks   | SEE Marks  | Total Marks | Credits   |
|  |        |                        |                           |                            | L                    | T        | P         |             |            |             |           |
| 1  | PCC    | 24AD61                 | Machine Learning          | TD:AD<br>PSB AD            | 3                    | 0        | 0         | 50          | 50         | 100         | 3         |
| 2  | IPCC   | 24AD62                 | Big Data analytics        | TD:AD<br>PSB AD            | 3                    | 0        | 2         | 50          | 50         | 100         | 4         |
| 3  | PCCL   | 24AD63                 | Machine Learning lab      | TD:AD<br>PSB AD            | 0                    | 0        | 2         | 50          | 50         | 100         | 1         |
| 4  | PEC    | 24AD64X                | Program Elective Course-2 | TD:AD<br>PSB AD            | 3                    | 2        | 0         | 50          | 50         | 100         | 4         |
| 5  | PEC    | 24AD65X                | Program Elective Course-3 | TD:AD<br>PSB AD            | 4                    | 0        | 0         | 50          | 50         | 100         | 4         |
| 6  | OEC    | 24XX6X                 | Open Elective -1          | Respective Dept            | 3                    | 0        | 0         | 50          | 50         | 100         | 3         |
| 7  | PROJ   | 24ADP67                | Mini Project              | TD:AD<br>PSB AD            | 0                    | 0        | 4         | 100         | -          | 100         | 2         |
| 8  | MC     | 24NS68/24PE68 / 24YO68 | NSS/PE/YOGA               | NSS/YOGA/ PE coordinator   | 0                    | 0        | 2         | 100         | -          | 100         | -         |
| <b>Total</b>   |        |                        |                           |                            |                      |          |           | <b>500</b>  | <b>300</b> | <b>800</b>  | <b>21</b> |

**NOTE: Minimum of 1 subject should have a tutorial component.**

## EPCET - ARTIFICIAL INTELLIGENCE AND DATA SCIENCE

### Autonomous Scheme Handbook

|                         |                                   |         |   |
|-------------------------|-----------------------------------|---------|---|
| <b>PEC-2</b>            |                                   |         |   |
| 24AD64A                 | Computer Vision                   | 24AD64C | Exploratory Data Analysis               |
| 24AD64B                 | Information Retrieval             | 24AD64D | Digital Image Processing                |
| <b>PEC-3</b>            |                                   |         |   |
| 24AD65A                 | Human-Centered AI                 | 24AD65C | Blockchain Technology                   |
| 24AD65B                 | Natural Language Processing       | 24AD65D | Time Series Analysis                    |
| <b>Open Elective -1</b> |                                   |         |   |
| 24AD66A                 | Introduction to Data Structures   | 24AD66C | Mobile Application Development          |
| 24AD66B                 | Fundamentals of Operating Systems | 24AD66D | Introduction to Artificial Intelligence |

# EPCET - ARTIFICIAL INTELLIGENCE AND DATA SCIENCE

## Autonomous Scheme Handbook

### VII Semester

| BE in Artificial Intelligence and Data Science<br><b>Scheme of Teaching VII Semester</b><br>Outcome Based Education and Choice Based Credit System (CBCS)<br>Effective from the academic year Batch - 2024-2028 |        |             |   |                            |                      |          |           |             |            |             |           |
|---|--------|-------------|---|----------------------------|----------------------|----------|-----------|-------------|------------|-------------|-----------|
| Sl. No  | Course | Course Code | Course Title                                  | Teaching Dept. (TD)/ Board | Teaching Hours /Week |          |           | Examination |            |             |           |
|   |        |             |   |                            | Theory               | Tutorial | Practical | CIE Marks   | SEE Marks  | Total Marks | Credits   |
|   |        |             |   |                            | L                    | T        | P         |             |            |             |           |
| 1   | PCC    | 24AD71      | Data Security & Privacy                       | TD:AD<br>PSB AD            | 4                    | 0        | 0         | 50          | 50         | 100         | 4         |
| 2   | PCC    | 24AD72      | Statistical Machine Learning for Data Science | TD:AD<br>PSB AD            | 3                    | 2        | 0         | 50          | 50         | 100         | 4         |
| 3   | IPCC   | 24AD73      | Deep Learning & Reinforcement Learning        | TD:AD<br>PSB AD            | 3                    | 0        | 2         | 50          | 50         | 100         | 4         |
| 4   | PCCL   | 24ADL74     | Generative AI Lab                             | TD:AD<br>PSB AD            | 0                    | 0        | 2         | 50          | 50         | 100         | 1         |
| 5   | PEC    | 24AD75X     | Program Elective Course-4                     | TD:AD<br>PSB AD            | 4                    | 0        | 0         | 50          | 50         | 100         | 4         |
| 6   | OEC    | 24XX76X     | Open Elective -2                              | Respective Dept            | 4                    | 0        | 0         | 50          | 50         | 100         | 4         |
| 7   | PROJ   | 24ADP77     | Project Work Pahse-1                          | TD:AD<br>PSB AD            | 0                    | 0        | 4         | 100         | -          | 100         | 2         |
| <b>Total</b>  |        |             |   |                            |                      |          |           | <b>400</b>  | <b>300</b> | <b>700</b>  | <b>23</b> |

**NOTE: Minimum of 1 subject should have a tutorial component.**



# EPCET - ARTIFICIAL INTELLIGENCE AND DATA SCIENCE

## Autonomous Scheme Handbook

| PEC-4   |                          |         |                         |
|---------|--------------------------|---------|-------------------------|
| 24AD75A | Scalable Data Systems    | 24AD75C | Business Analytics      |
| 24AD75B | Data Engineering & MLOps | 24AD75D | Social Network Analysis |

| Open Elective Course -2 |                      |         |                                  |
|-------------------------|----------------------|---------|----------------------------------|
| 24AD76A                 | Introduction to DBMS | 24AD76C | Software Engineering             |
| 24AD76B                 | Data Analytics       | 24AD76D | Introduction to Machine Learning |

## VIII Semester

| BE in Artificial Intelligence and Data Science                |        |             |                                  |                            |  |          |           |             |           |             |         |
|---|--------|-------------|----------------------------------|----------------------------|--|----------|-----------|-------------|-----------|-------------|---------|
| Scheme of Teaching VIII Semester                              |        |             |                                  |                            |  |          |           |             |           |             |         |
| Outcome Based Education and Choice Based Credit System (CBCS) |        |             |                                  |                            |  |          |           |             |           |             |         |
| Effective from the academic year Batch - 2024-2028            |        |             |                                  |                            |  |          |           |             |           |             |         |
| Sl. No  | Course | Course Code | Course Title                     | Teaching Dept. (TD)/ Board | Teaching Hours /Week   |          |           | Examination |           |             |         |
|   |        |             |                                  |                            | Theory   | Tutorial | Practical | CIE Marks   | SEE Marks | Total Marks | Credits |
|   |        |             |                                  |                            | L  | T        | P         |             |           |             |         |
| 1   | INT    | 24INT81     | Research / Industrial Internship | TD:AD<br>PSB AD            | Two contact hours for interaction between the faculty and students   |          |           | 100         | 100       | 200         | 5       |
| 2   | PROJ   | 24ADP82     | Project Work Phase - II          | TD:AD<br>PSB AD            | Three contact hours for interaction between the faculty and students |          |           | 100         | 100       | 200         | 12      |
| Total   |        |             |                                  |                            |  |          |           | 200         | 200       | 400         | 17      |