

SVMC's NIMDM'S
 School Name: Makresh Patel School of Technology Management & Engineering (Mumbai, Shirpur, Navi Mumbai, Indore Campus)
 Teaching Scheme for Academic Year 2023-24 (Batch: 2023-27)
 [As approved in the Academic Council dated 21st June 2023]

| Sr. No. | Module/Subject Code | Name of the Module | Area / Discipline | Theory Hours per week | Practicals Hours per week | Tutorials Hours per week | Total no. of hours for the subject in a term | Credits | Duration of Examination (Hrs) | | Mode of Exam | Examination Scheme (Weights) | | | | | Category | GR applicable (Yes/No) | Academic council date and page number | | | | |
|---------|---------------------|---------------------------------|------------------------|-----------------------|---------------------------|--------------------------|--|------------|-------------------------------|-----------|--------------|------------------------------|-----------|------------|----------------------|----------------|------------|------------------------|---------------------------------------|----------------|------|-------------------|--|
| | | | | | | | | | Term End Examination | Only ICA | | Distribution of ICA Marks | | | Term End Examination | | | | | Template Codes | Mark | | |
| | | | | | | | | | | | | Test I | Test II | Term work | Total Marks | Marks on Paper | | | | | | Scaled to (Marks) | Scaled Marks (ICA+TEB) |
| | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 702ESOC001 | Calculus | BSE-Mathematics | 3 | 0 | 1 | 60 | 4 | 3 | - | Written | 10 | 10 | 30 | 50 | 100 | 50 | 100 | 7031 | COMP | Yes | # | |
| 2 | 702ESOC002 | Physics | BSE-Physics | 3 | 2 | 0 | 75 | 4 | 3 | - | Written | 10 | 10 | 30 | 50 | 100 | 50 | 100 | 7031 | COMP | Yes | # | |
| 3 | 702ESOC049 | Elements of Biology | BSE-Biology | 3 | 0 | 0 | 45 | 3 | 3 | - | Written | 10 | 10 | 30 | 50 | 100 | 50 | 100 | 7031 | COMP | Yes | # | |
| 4 | 702COC001 | Programming for Problem Solving | Computer Engineering | 2 | 4 | 0 | 90 | 4 | 3 | - | Written | 10 | 10 | 30 | 50 | 100 | 50 | 100 | 7031 | COMP | Yes | # | 21-06-2022, 292,562,376,447, 761,439,631 |
| 5 | 702-MEDC006 | Engineering Graphics and Design | Mechanical Engineering | 2 | 2 | 0 | 60 | 3 | 3 | - | Practical | 10 | 10 | 30 | 50 | 100 | 50 | 100 | 7031 | COMP | Yes | # | |
| 6 | 702ESOC005 | Professional Ethics | BSE-Other | 1 | 0 | 0 | 15 | 1 | - | - | - | 10 | 10 | 30 | 50 | 50 | - | - | 7032 | COMP | No | Only ICA | |
| 7 | 702BSC006 | Constitution of India | BSE-Other | 1 | 0 | 0 | 15 | 0 | - | - | - | - | - | 50 | 50 | - | - | - | 7032 | COMP | No | Only ICA | |
| 8 | 702ESOC007 | Critical Thinking | BSE-Other | 2 | 0 | 0 | 30 | 0 | - | - | - | - | - | 50 | 50 | - | - | - | 7032 | COMP | No | Only ICA | |
| | | | | Total | 17 | 8 | 1 | 390 | 19 | 15 | | 60 | 60 | 240 | 400 | 500 | 250 | 650 | | | | | |

* Term Work = Viva / Presentations/ Journals/ assignments/ quizzes / MCQs/Business plans/Role plans etc.

** NUE = Non University Examination (Term End Examination conducted at school level)

Calculus, Programming for Problem Solving, Syllabus common for B Tech/ MBA Tech (all programs) except CSBS and CSEDS (311)-VT, can use common question paper.

Elements of Biology - Syllabus common for B Tech (all programs) except Civil, CSBS and CSCDS (311)-VT, can use common question paper.

Physics - Syllabus common for B Tech/ MBA Tech (all programs) except Civil, Mechanical, CSBS and CSEDS (311)-VT, can use common question paper.

Engineering Graphics and Design - Syllabus common for B Tech (all programs) except Civil, CSBS and CSCDS (311)-VT, can use common question paper.

Professional Ethics - This course focuses on instilling professional ethics, which are taught and assessed throughout the semester.

Constitution of India - This course focuses on making the students aware of the Constitution of India, which is taught and assessed throughout the semester.

Critical Thinking - This course inculcates and encourages Critical thinking behaviour, which is taught and assessed throughout the semester.

Date: 24.07.2023

Prepared / Verified by
 P. V. Jayanti

Dr. Ajay Shirke
 HOD, ESH - Department

AMC
 15-1-23

Dr. Alka Mahajan
 Dean, MFSTME

| Year of the Programme: First Year | | | | | | | | | | | | | | Semester: II | | | | | | | | | | | | | |
|-----------------------------------|--|---------------------------------|-----------------------|---------------------------|--|---------|-------------------------------|----------|--------------|--------------------------------|---------|-----------|-------------|-------------------------|----------|------------------------|---------|---------------------------------------|--------------------------|----------------------|-------|------------------------|---------------|----------|-----------------------------|----|----|
| Sr. No. / Subject Code | Name of the Module | Area / Discipline | Theory Hours per week | Practicals Hours per week | Tutorials of hours for the subject in a term | Credits | Duration of Examination (Hrs) | | Mode of Exam | Examination Scheme (Weightage) | | | | | Category | GR applicable (Yes/No) | Remarks | Academic council date and page number | | | | | | | | | |
| | | | | | | | Term End Examination | Only ICA | | Test I | Test II | Term work | Total Marks | Scaled to Marks (Marks) | | | | | Marks for Question Paper | Terminal Examination | Total | Scaled Marks (ICA+TET) | Weightage (%) | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | 3 | 3 | 10 | 10 |
| 1 | Linear Algebra and Differential Equations | BSE-Mathematics | 3 | 0 | 1 | 60 | 4 | 3 | -- | Written/Practical | 10 | 10 | 30 | 50 | 50 | 100 | 50 | 100 | 100 | 7061 | COMP | Yes | # | | | | |
| 2 | Quantum and Statistical Physics | BSE-Physics | 2 | 2 | 0 | 60 | 3 | 3 | -- | Written | 10 | 10 | 30 | 50 | 50 | 100 | 50 | 100 | 100 | 7061 | COMP | Yes | # | | | | |
| 3 | English Communication | BSE-English | 0 | 2 | 0 | 30 | 1 | -- | -- | -- | -- | -- | 50 | 50 | 50 | -- | -- | -- | 90 | 100 | 7062 | COMP | No | Only ICA | | | |
| 4 | Basic Electrical and Electronics Engineering | Electronics & Telecommunication | 2 | 2 | 0 | 60 | 3 | 3 | -- | Written | 10 | 10 | 30 | 50 | 50 | 100 | 50 | 100 | 100 | 7061 | COMP | Yes | # | | | | |
| 5 | Management Accounting for Engineers | Technology Management-Finance | 2 | 0 | 0 | 30 | 2 | 3 | -- | Written | 10 | 10 | 30 | 50 | 50 | 100 | 50 | 100 | 100 | 7061 | COMP | Yes | # | | AC 14.10.2022, page 540,542 | | |
| 6 | Environmental Science | Civil Engineering | 1 | 0 | 1 | 30 | 2 | -- | -- | -- | 10 | 10 | 30 | 50 | 50 | -- | -- | -- | 50 | 100 | 7062 | COMP | No | Only ICA | | | |
| 7 | Digital Manufacturing Laboratory | Mechanical Engineering | 0 | 2 | 0 | 30 | 1 | -- | -- | -- | -- | 50 | 50 | 50 | 50 | -- | -- | -- | 50 | 100 | 7062 | COMP | No | Only ICA | | | |
| 8 | Electrical and Electronics Workshop | Electronics & Telecommunication | 0 | 2 | 0 | 30 | 1 | -- | -- | -- | -- | 50 | 50 | 50 | 50 | -- | -- | -- | 50 | 100 | 7062 | COMP | No | Only ICA | | | |
| 9 | Design Thinking | BSE-Other | 2 | 0 | 0 | 30 | 0 | -- | -- | -- | -- | 50 | 50 | 50 | 50 | -- | -- | -- | 50 | 100 | 7062 | COMP | No | Only ICA | | | |
| 10 | Python Programming | Artificial Intelligence | 0 | 2 | 0 | 30 | 1 | 3 | -- | Practical | 10 | 10 | 30 | 50 | 50 | 100 | 50 | 100 | 100 | 7061 | COMP | Yes | # | | | | |
| Total | | | 12 | 12 | 2 | 390 | 18 | 15 | -- | -- | 60 | 60 | 380 | 500 | 500 | 500 | 250 | 750 | | | | | | | | | |

* Term Work = Viva / Presentations/ Journals/ assignments/ quizzes/ MCQs/Business plans/Role plays etc.

Syllabus common for B.Tech all program except Civil, Mechanical, CSES and CSDS, can use common question paper.

English Communication - This course focuses on introducing the students to the basics of English language and formal communication, which requires to be assessed continuously throughout the semester.

Environmental Science - The course is for the general awareness about the environment.

Digital Manufacturing Laboratory - This course is a practice-oriented course. The evaluation is purely based on periodic assessments based on the jobs prepared by the students.

Electrical and Electronics Workshop - This course empowers students to gather practical knowledge and skills using Internal Continues Assessment (ICA) throughout the semester.

Design Thinking - This course helps to develop a human-centric approach to problem-solving, which requires to be assessed continuously throughout the semester.

Date: 11.11.2024

Prepared / Verified by
Prithi / Jayanti

Dr. Ajay Phirke
HoD, BSE- Department

Dr. Koteswarao A. Nene
Dean, MFSTME

NO CHANGE

37005 NINIA
 School Name: MERKATIYA POLYTECHNIC COLLEGE OF TECHNOLOGY
 Teaching Scheme for Academic Year 2023-24 (Batch 2023-27)
 (As approved in the Academic Council dated 14/12/2022, pg. no. 343)

| Sr. No. | Module/ Subject Code | Name of the Module | Area / Discipline | Theory Hours per week | Tutorials / Assignments (per week) | Total no. of hours / Assignments in a term | Credits | Duration/ Equipments/ Facilities | Distribution of TCA Marks | | | | Total | TCA Marks (out of 100) | Category | TCA Marks (out of 100) | AC/Classified/Not AC | | |
|---------|----------------------|--|--|-----------------------|------------------------------------|--|---------|----------------------------------|---------------------------|----------|----------|-----------------|-------|------------------------|----------|------------------------|----------------------|-----|--|
| | | | | | | | | | Final | Term End | Internal | Practical/ Viva | | | | | | | |
| 1 | 702506/03A | Probability and Statistics | BSM-Mathematics | 2 | 2 | 60 | 3 | 3 | Written | 10 | 10 | 20 | 20 | 50 | 100 | 100 | CD/CF | Yes | |
| 2 | 702506/03B | Discrete of Computer Science | Computer Science | 2 | 0 | 30 | 2 | 3 | Written | 10 | 10 | 20 | 20 | 50 | 100 | 100 | CD/CF | Yes | |
| 3 | 702506/03C | Principles of Economics and Management | Technology Management-General Management | 3 | 0 | 45 | 3 | 3 | Written | 10 | 10 | 20 | 20 | 50 | 100 | 100 | CD/CF | Yes | |
| 4 | 702506/03D | Digital Circuits and Computer Architecture | Computer Science | 3 | 2 | 75 | 4 | 3 | Written | 10 | 10 | 20 | 20 | 50 | 100 | 100 | CD/CF | Yes | |
| 5 | 702506/03E | Computer Networks and Programming | Computer Science | 2 | 2 | 60 | 3 | 3 | Written | 10 | 10 | 20 | 20 | 50 | 100 | 100 | CD/CF | Yes | |
| 6 | 702506/03F | Discrete of Communication Algebra | Computer Engineering | 1 | 2 | 45 | 2 | 3 | Written | 10 | 10 | 20 | 20 | 50 | 100 | 100 | CD/CF | Yes | |
| 7 | 702506/03G | Data Structures and Algorithms | BSM-English | 0 | 0 | 15 | 1 | 1 | Written | 10 | 10 | 20 | 20 | 50 | 100 | 100 | CD/CF | Yes | |
| 8 | 702506/03H | Computer Engineering | Computer Engineering | 3 | 2 | 75 | 4 | 3 | Written | 10 | 10 | 20 | 20 | 50 | 100 | 100 | CD/CF | Yes | |
| 9 | 702506/03I | Corporate Finance | BSM-General | 0 | 0 | 0 | 0 | 0 | Practical/Viva | 10 | 10 | 20 | 20 | 50 | 100 | 100 | CD/CF | Yes | |
| Total | | | | | | | | | 70 | 70 | 210 | 40 | 60 | 600 | 250 | 250 | | | |

1. Term VIII is a "Value Education" (mainly assignment/quiz) / ICD/Performance plan/ etc.

2. ICD is a Non University Examination (mainly/other considered as school level)

3. Syllabus content for 3 Tech (Computer Science) and B.Tech (B.Tech/Computer Engineering) are not common question paper.

4. Technical Domain Vision - The table included in this credit course requires comprehensive and rigorous continuous assessment to ensure in-depth understanding, including formative (quiz) based and summative (final) assessment that eliminates the need for item end assessment.

5. Data Structure and Programming - This course requires knowledge of data structure and how to process it. It is provided based on the basis on it expected into the student for better understanding. The ICA marks of each student, whether it is across practical knowledge related to assignment the semester.

6. Company Finance - provides student a real life based on experience in the community and establish them towards the societal changes like poverty, literacy, hunger, child labor and inequality.

Prepared / Verified by
 Dr. Nifin Croubey
 Programme Head

Date: 21.06.2023

Dr. Nifin Croubey
 Programme Head
 Date: 18.06.2024

Dr. Nifin Croubey
 Dean, MPSTME

A. J. M. N.
 Dr. Koteswaram Anne
 Dean, MPSTME

| Sr. No. | Module/Subject Code | Name of the Module | Area/Discipline | Theory Hours per week | Practical Hours per week | Total Hours for the subject in a term | Duration of Examination (in Term) | Mode of Exam | Examination Scheme (Percentage) | | | | | | Total | Terminal/Chapters/Code | CBIE (Yes/No) | Academic Round date and page number | | | |
|--------------|---------------------|---|-------------------------|-----------------------|--------------------------|---------------------------------------|-----------------------------------|--------------|---------------------------------|---------|-----------|----------------------|-----------------------|-----------------|-------|------------------------|---------------|-------------------------------------|-----------------------|------------------------|---------------|
| | | | | | | | | | Distribution of ICA Marks | | | Term End Examination | | | | | | | | | |
| | | | | | | | | | Test I | Test II | Term work | Total Marks | Scaled Marks (Marked) | Marked on Paper | | | | | Scaled Marks (Marked) | Scaled Marks (ICA+TET) | Weightage (%) |
| 1 | 2018TCE07 | Complex Variables and Transforms | ISEE-Mathematics | 3 | 0 | 3 | 3 | Written | 10 | 16 | 26 | 52 | 50 | 100 | 50 | 100 | 7031 | CO-1P | Yes | | |
| 2 | 2018TCE07 | Parents, Mathematics | ISEE-Mathematics | 2 | 0 | 2 | 3 | Written | 10 | 10 | 20 | 50 | 50 | 100 | 30 | 100 | 7031 | CO-1P | Yes | | |
| 3 | 2022CE010 | Design and Analysis of Algorithms | Computer Engineering | 2 | 2 | 4 | 3 | Written | 20 | 20 | 20 | 50 | 50 | 100 | 50 | 100 | 7031 | CO-1P | Yes | | |
| 4 | 2022CE001 | Databases Management Systems | Artificial Intelligence | 2 | 2 | 4 | 3 | Written | 10 | 10 | 20 | 50 | 50 | 100 | 50 | 100 | 7031 | CO-1P | Yes | | |
| 5 | 2022CE003 | Design and Applications of Internet of Things | Computer Science | 3 | 2 | 5 | 4 | Written | 10 | 10 | 20 | 50 | 50 | 100 | 50 | 100 | 7031 | CO-1P | Yes | 14.10.2022 Page 54-55 | |
| 6 | 2022CE001 | Theoretical Computer Science | Computer Engineering | 2 | 0 | 2 | 3 | Written | 10 | 10 | 20 | 50 | 50 | 100 | 50 | 100 | 7031 | CO-1P | Yes | | |
| 7 | 2022CE005 | Web Programming | Artificial Intelligence | 2 | 2 | 4 | 3 | Practical | 10 | 10 | 20 | 50 | 50 | 100 | 50 | 100 | 7031 | CO-1P | Yes | | |
| 8 | 2022CE003 | Object Oriented Programming through JAVA | Computer Engineering | 0 | 2 | 2 | 2 | Practical | 10 | 10 | 20 | 50 | 50 | 100 | 50 | 100 | 7031 | CO-1P | Yes | | |
| Total | | | | 16 | 10 | 26 | 23 | | 80 | 80 | 240 | 400 | 400 | 250 | 400 | 400 | | | | | |

*Term work = Viva/ Presentations / Journals/ Assignments/ Quizzes/ MCQs/ Business plans/ Role-plays etc.

(Signature)
 Response / verified by

Date: 24.10.2024

(Signature)
 Programme Head

(Signature)
 Dr. K. Srinivasan Achar
 Dean, MSTPME

| S. No. | Module / Subject Code | Name of the Module | Area / Discipline | Theory Hours per week | Practicals Hours per week | Tutorials Hours per week | Total no. of hours for the subject in a term | Credits | Examination Scheme (Weights) | | | | GR applicable (Yes/No) | Academic Council date and page number | | | | | | | |
|--------|-----------------------|---------------------------------------|---|-----------------------|---------------------------|--------------------------|--|---------|-------------------------------|----------|----------------------|----------------|------------------------|---------------------------------------|-------|------------|----------|--------------------------|----------------------------------|-------------------------------------|--|
| | | | | | | | | | Question of Examination (Rtn) | | Term End Examination | | | | Total | Temp. site | Category | | | | |
| | | | | | | | | | Mode of Exam | Only ICA | Term End Examination | Marked in Term | | | | | | Scaled to Marks (ICA/TE) | Scaled to Marks (Marked in Term) | | |
| | | | | | | | | | Test I | Test II | Term work | Total Marks | | | | | | | | | |
| 1 | 702TDC016 | Software Engineering | Information Science / Technology | 2 | 2 | 0 | 60 | 3 | 3 | 10 | 10 | 30 | 50 | 50 | 100 | 100 | 7031 | COMP | Yes | | |
| 2 | 702CS004 | Compiler Design | Computer Science | 2 | 2 | 0 | 60 | 3 | 3 | 10 | 10 | 30 | 50 | 50 | 100 | 100 | 7031 | COMP | Yes | | |
| 3 | 702EX0004 | Image and Video Processing | Electronics & Telecommunication Engineering | 2 | 2 | 0 | 60 | 3 | 3 | 10 | 10 | 30 | 50 | 50 | 100 | 100 | 7031 | COMP | Yes | | |
| 4 | 702CO1002 | Operating Systems | Computer Engineering | 2 | 2 | 0 | 60 | 3 | 3 | 10 | 10 | 30 | 50 | 50 | 100 | 100 | 7031 | COMP | Yes | | |
| 5 | | Department Elective I | | | | | | | | | | | | | | | | | | | |
| 6 | 702CME004 | Advanced Web Programming | Computer Engineering | 2 | 2 | 0 | 60 | 3 | 3 | 10 | 10 | 30 | 50 | 50 | 100 | 100 | 7031 | ELEC | Yes | AC dated 01/04/2024 per ms.807/2024 | |
| 7 | 702CME005 | Operations Research | Computer Engineering | 2 | 2 | 0 | 60 | 3 | 3 | 10 | 10 | 30 | 50 | 50 | 100 | 100 | 7031 | ELEC | Yes | | |
| 8 | 702TVE006 | Advanced Database Management Software | Information Science / Technology | 2 | 2 | 0 | 60 | 3 | 3 | 10 | 10 | 30 | 50 | 50 | 100 | 100 | 7031 | ELEC | Yes | | |
| 9 | | Open Elective I | | X | X | X | X | 3 | 3 | 10 | 10 | 30 | 50 | 50 | 100 | 100 | 7031 | N/D | Yes | | |
| 10 | | Open Elective II | | X | X | X | X | 3 | 3 | 10 | 10 | 30 | 50 | 50 | 100 | 100 | 7031 | N/D | Yes | | |
| | | | | 14 | 14 | 6 | 390-420 | 24 | 27 | 70 | 70 | 210 | 350 | 350 | 700 | 700 | | | | | |

Year of the Programme: Third Year
 Semester: V
 Term work = Viva / Presentations / Journals / Assignments / Quizzes / MCQs / Business plans / Role plays etc.
 Advanced Web Programming: The course focuses on Web development Technologies. The course expects the blending of multiple technologies in implementation which requires a completely practical approach. The focus will be on project development as the final evaluation will be based on project implementation and practical examination

[Signature]
 Dr. Nitin Chaudhary
 Programme Head

[Signature]
 Anupama Rajput
 Prepared / Verified by

Date: 15.06.2024

[Signature]
 Dr. Kalyanasree Anne
 Dean, MPSTME

| Sl. No. | Syllabus / Subject Code | Name of the Module | Area / Discipline | Theory Hours per week | Practicals Hours per week | Tutorials Hours per week | Total no. of hours per week | Credits | Mode of Exam | Examination Scheme (Practicals) | | | | Total | Syllabus Code | Category | CIU applies (Yes/No) | Academic Council date and page number | | | | |
|---------|-------------------------|-------------------------|--|-----------------------|---------------------------|--------------------------|-----------------------------|---------|--------------|---------------------------------|---------|-----------|-------------|-------|---------------|----------|----------------------|---------------------------------------|------|-----|---------------------------------|--|
| | | | | | | | | | | Distribution of ICA Marks | | | | | | | | | | | | |
| | | | | | | | | | | Test I | Test II | Term work | Total Marks | | | | | | | | | |
| 1 | 702000002 | Artificial Intelligence | Computer Engineering | 2 | 2 | 0 | 60 | 1 | Written | 10 | 10 | 30 | 100 | 50 | 50 | 100 | 100 | 7031 | CONF | Yes | | |
| 2 | 702000003 | Cyber Security | Artificial Intelligence | 2 | 2 | 0 | 60 | 3 | Written | 10 | 10 | 30 | 100 | 50 | 50 | 100 | 100 | 7031 | CONF | Yes | | |
| 3 | 702000004 | Blockchain Computing | Computer Engineering | 2 | 2 | 0 | 60 | 3 | Written | 10 | 10 | 30 | 100 | 50 | 50 | 100 | 100 | 7031 | CONF | Yes | | |
| 4 | 702000005 | Department Elective II | Engineering/Information Science/Technology | 2 | 2 | 0 | 60 | 3 | Written | 10 | 10 | 30 | 100 | 50 | 50 | 100 | 100 | 7031 | ELEC | Yes | AC dated 13.10.2023 Page No. 31 | |
| 5 | 702000006 | Department Elective III | Engineering/Information Science/Technology | 2 | 2 | 0 | 60 | 3 | Written | 10 | 10 | 30 | 100 | 50 | 50 | 100 | 100 | 7031 | ELEC | Yes | | |
| 6 | 702000007 | Open Elective III | | X | X | X | X | 3 | Written | 10 | 10 | 30 | 100 | 50 | 50 | 100 | 100 | 7031 | ELEC | Yes | | |
| 7 | 702000008 | Open Elective IV | | X | X | X | X | 3 | Written | 10 | 10 | 30 | 100 | 50 | 50 | 100 | 100 | 7031 | INTD | Yes | | |
| 8 | 702000009 | Interpersonal Skills | RES-English | 0 | 2 | 0 | 30 | 1 | - | - | - | 50 | 50 | 50 | 50 | 50 | 50 | 7032 | COMP | NO | CIU | |
| Total | | | | 10 | 10 | 0 | 300 | 22 | | 70 | 70 | 260 | 600 | 700 | 350 | 750 | | | | | | |

* Term Work - Viva / Presentation/ Journals/ assignments/ quizzes/MCQs/Mini-projects/ etc.
 1 & 2 Course to be selected from the list of Department Electives on IT/ITL Scheme will be subject to course requirements.
 3 Course to be selected from the list of Open Electives based on the list of courses offered by the department. Scheme will be as per the course requirements.
 4 Course to be selected from the list of Open Electives based on the list of courses offered by different departments. Scheme will be as per the course requirements.
 5 Interpersonal Skills - This is a mandatory course for all students to ensure the student has acquired specific interpersonal skills, thereby, enhancing the rated for their oral communication.

| Department Elective III | |
|-------------------------|----------------------------|
| Code | Subject |
| 702000007 | Human Computer Interaction |
| 702000008 | Cloud Computing |
| 702000009 | IoT and Applications |

| Department Elective II | |
|------------------------|--------------------------------|
| Code | Subject |
| 702000002 | Software Quality Assurance |
| 702000003 | Microservices and Architecture |
| 702000004 | E-Governance |

| Code | Subject | L | P | T | C | Remarks |
|-----------|----------------------------|---|---|---|---|---------|
| 702000007 | Human Computer Interaction | 2 | 2 | 0 | 3 | |
| 702000008 | Cloud Computing | 2 | 2 | 0 | 3 | |
| 702000009 | IoT and Applications | 2 | 2 | 0 | 3 | |

Date: 24.10.2024
 Prepared / Verified by: [Signature]
 Programme Head

Dr. K. Srinivasan Ann
 Dean, B.TECH IIE

| Sr. No. | Module/Subject Code | Name of the Module | Area/Discipline | Theory Hours per week | Practicals Hours per week | Tutorials Hours per week | Total No. of hours for the subject in a term | Credits | Duration of Examination (hrs) | Mode of Exam | Examination Scheme (Weightage) | | | | | | CR apply Rule (Y/N) | Academic council date and page number | | | | |
|---------|---------------------|------------------------|--|-----------------------|---------------------------|--------------------------|--|---------|-------------------------------|---|--------------------------------|---------|-----------|------------------------|---------------|---------------|---------------------|---------------------------------------|-------|------------------|---------|-----------------------------|
| | | | | | | | | | | | Distribution of ICA Marks | | | Term End Examination | | | | | Total | Type of Category | Remarks | |
| | | | | | | | | | | | Test I | Test II | Term work | Marks (Question Paper) | Marks (Marks) | Marks (Marks) | | | | | | Weightage (%) |
| 1 | 702CDB01 | Machine Learning | Computer Engineering | 2 | 2 | 0 | 60 | 3 | 3 | Written/Online/Computer based/Practicals/Video/Presentation | 10 | 10 | 30 | 50 | 100 | 50 | 100 | 100 | 7031 | COMP | Yes | |
| 2 | | Department Elective IV | Artificial Intelligence/Computer Engineering | 2 | 2 | 0 | 60 | 3 | 3 | Written | 10 | 10 | 30 | 50 | 100 | 50 | 100 | 100 | 7031 | ELEC | Yes | |
| 3 | | Department Elective V | Artificial Intelligence/Information Science/Technology | 2 | 2 | 0 | 60 | 3 | 3 | Written | 10 | 10 | 30 | 50 | 100 | 50 | 100 | 100 | 7031 | ELEC | Yes | |
| 4 | | Department Elective VI | Data Science/Artificial Intelligence | 2 | 2 | 0 | 60 | 3 | 3 | Written | 10 | 10 | 30 | 50 | 100 | 50 | 100 | 100 | 7031 | ELEC | Yes | AC dated 01.01.2024 Pg. 665 |
| 5 | | Open Elective V | Engineering | X | X | X | X | 3 | 3 | Written | 0 | 0 | 100 | 100 | 0 | 0 | 100 | 100 | 7031 | INTD | Yes | |
| 6 | 702EJAC002 | Capstone Project | Engineering | 0 | 8 | 0 | 120 | 4 | 0 | --- | 10 | 50 | 250 | 350 | 800 | 250 | 600 | 100 | 7031 | COOP | No | Only ICA* |
| Total | | | | | | | | | | | 10 | 50 | 250 | 350 | 800 | 250 | 600 | | | | | |

*Term Work = Viva/Practicals/Assignments/Quizzes/Mini-Projects/Business plans/Case plans etc.
 *Course to be selected from the basket of Department Elective IV/V/VI. Schemes will be as per the course requirement.
 *Course to be selected from a common open elective basket of interdisciplinary courses offered by different departments. Schemes will be as per the course requirement.
 **Capstone Project - Course is project based learning. There will presentation at the end of the semester.

| Department Elective IV | |
|------------------------|---------------------------------|
| Code | Name of the course |
| 702CO0309 | Biometrics |
| 702A05007 | Cyberology and Network Security |
| 702CS03001 | Mobile Computing |

[Signature]
 Anupama Rajput
 Program / Verified by

Date: 12.06.2024

| Department Elective V | |
|-----------------------|-----------------------|
| Code | Name of the Course |
| 702IT05023 | UI and UX Design |
| 702A05012 | IoT for Smart Cities |
| 702IT05016 | Blockchain Technology |

[Signature]
 Dr. Nitin Choubey
 Programme Head

| Department Elective VI | |
|------------------------|-----------------------------|
| Code | Name of the Course |
| 702D00C19 | Big Data Analytics |
| 702A10C09 | Natural Language Processing |
| 702A10B10 | Evolutionary Computing |

[Signature]
 Dr. Jyotsnawati Anne
 Dean, MSSTME

