
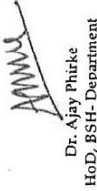
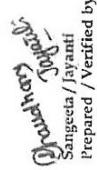


| Semester: I | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------|-----------------------|---------------------------------|------------------------|-----------------------|--------------------------|--------------------------|--|---------|-----------------------------------|----------|--|--------|--------------------------------|-----------------|-------------------------|----------------------------|----------------------|-------|-------------------------|-------------|-----------------|----------|--------------------------|--|---------------------------------------|-------------------------|
| Sr. No. | Module / Subject Code | Name of the Module | Area / Discipline | Theory Hours per week | Practical Hours per week | Tutorials Hours per week | Total no. of hours for the subject in a term | Credits | Year of the Programme: First Year | | | | Examination Scheme (Weightage) | | | | Term End Examination | Total | Scaled Marks (ICA+ TEE) | Weightage % | Templ ate Codes | Category | GR applica ble (Yes/ No) | R e m a r k # | Academic council date and page number | |
| | | | | | | | | | Duration of Examination (Hrs) | | Mode of Exam | | Distribution of ICA Marks | | Term End Examination | | | | | | | | | | | |
| | | | | | | | | | Term End Examination | Only ICA | Written/ Offline/Online/Computer based/ Practical/Viva /Jury/ Presentation | Test I | Test II | Term work Marks | Total Scaled to (Marks) | Marks on (Questi on Paper) | | | | | | | | | | Marks Scaled to (Marks) |
| 1 | 702BS0C001 | Calculus | BSH-Mathematics | 3 | 0 | 1 | 60 | 4 | 3 | – | Written | 10 | 10 | 30 | 50 | 100 | 50 | 100 | 100 | 7031 | COMP | Yes | # | | | |
| 2 | 702BS0C002 | Physics | BSH-Physics | 3 | 2 | 0 | 75 | 4 | 3 | – | Written | 10 | 10 | 30 | 50 | 100 | 100 | 50 | 100 | 7031 | COMP | Yes | # | | | |
| 3 | 702BS0C009 | Elements of Biology | BSH-Biology | 3 | 0 | 0 | 45 | 3 | 3 | – | Written | 10 | 10 | 30 | 50 | 100 | 50 | 100 | 100 | 7031 | COMP | Yes | # | | | |
| 4 | 702C00C001 | Programming for Problem Solving | Computer Engineering | 2 | 4 | 0 | 90 | 4 | 3 | – | Written | 10 | 10 | 30 | 50 | 100 | 50 | 100 | 100 | 7031 | COMP | Yes | # | | | |
| 5 | 702ME0C001 | Engineering Graphics and Design | Mechanical Engineering | 2 | 2 | 0 | 60 | 3 | 3 | – | Practical | 10 | 10 | 30 | 50 | 100 | 50 | 100 | 100 | 7031 | COMP | Yes | # | 21-06-2022, 292,562,576,447, 761,349,631 | | |
| 6 | 702BS0C005 | Professional Ethics | BSH-Other | 1 | 0 | 0 | 15 | 1 | – | – | – | 10 | 10 | 30 | 50 | 50 | – | – | 50 | 7032 | COMP | No | Only ICA | | | |
| 7 | 702BS0C006 | Constitution of India | BSH-Other | 1 | 0 | 0 | 15 | 0 | – | – | – | – | – | 50 | 50 | – | – | – | 50 | 7032 | COMP | No | Only ICA | | | |
| 8 | 702BS0C007 | Critical Thinking | BSH-Other | 2 | 0 | 0 | 30 | 0 | – | – | – | – | – | 50 | 50 | – | – | – | 50 | 7032 | COMP | No | Only ICA | | | |
| Total | | | | 17 | 8 | 1 | 390 | 19 | 15 | – | – | 60 | 60 | 280 | 400 | 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 CSDS, can use common question paper.
 # Elements of Biology - Syllabus common for B Tech (all program) except Civil, CSBS and CSDS, can use common question paper.
 # Physics - Syllabus common for B Tech/ MBA Tech (all programs) except Civil, Mechanical, CSBS and CSDS, can use common question paper.
 ** Engineering Graphics and Design - This course requires showcasing software competency along with drawing skills. Evaluation is done in NUE mode at the end of the semester.
 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.


 Dr. Alka Mahajan
 Dean, MPSTME


 Dr. Ajay Phirke
 HoD, BSH- Department


 Songesta / Javanti
 Prepared / Verified by

SVKM's NMIMS
 School Name: Mukesh Patel School of Technology Management & Engineering (Campus:Mumbai, Shirpur, Navi Mumbai, Indore Campus)
 Teaching Scheme for Academic Year: 2022-23 (Batch: 2022-26)
 (As approved in the Academic Council dated 14th October 2022)

| 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 | Year of the Programme: First Year | | | | Semester: II | | | | | Academic council date and page number | | | | | | |
|--------|------------|--|---------------------------------|-------------------|-----------------------|---------------------------|--------------------------|--|-----------|-----------------------------------|-----------|--------------|---------------------------|--------------|------------|--------------------------------|------------------------|------------------------|---------------------------------------|----------|-----------------------|---------------------------------|-------------------------|----------------------|-----------------------------------|
| | | | | | | | | | | Duration of Examination (Hrs) | | Mode of Exam | Distribution of ICA Marks | | | Examination Scheme (Weightage) | | GR applicable (Yes/No) | | Category | Templ ate Codes | R e c o r d # | | | |
| | | | | | | | | | | Term End Examination | Only ICA | | Test I | Test II | Term work | Scaled to Total Marks | Marks (Question Paper) | | | | | | Marks Scaled to (Marks) | Term End Examination | Total |
| 1 | 702BSOC051 | Linear Algebra and Differential Equations | BSH-Mathematics | 3 | 0 | 1 | 60 | 4 | 3 | -- | Written | 10 | 10 | 30 | 50 | 100 | 50 | 100 | 100 | 7031 | COMP | Yes | # | | |
| 2 | 702BSOC009 | Quantum and Statistical Physics | BSH-Physics | 2 | 2 | 0 | 60 | 3 | 3 | -- | Written | 10 | 10 | 30 | 50 | 100 | 50 | 100 | 100 | 7031 | COMP | Yes | # | | |
| 3 | 702BSOC059 | English Communication | BSH-English | 0 | 2 | 0 | 30 | 1 | -- | -- | -- | -- | -- | 50 | 50 | -- | -- | -- | 50 | 100 | 7032 | COMP | No | Only ICA | |
| 4 | 702EXOC001 | Basic Electrical and Electronics Engineering | Electronics & Telecommunication | 2 | 2 | 0 | 60 | 3 | 3 | -- | Written | 10 | 10 | 30 | 50 | 100 | 50 | 100 | 100 | 7031 | COMP | Yes | # | | |
| 5 | 702TFOC001 | Management Accounting for Engineers | Technology Management-Finance | 2 | 0 | 0 | 30 | 2 | 3 | -- | Written | 10 | 10 | 30 | 50 | 100 | 50 | 100 | 100 | 7031 | COMP | Yes | # | | |
| 6 | 702CIOC014 | Environmental Science | Civil Engineering | 1 | 0 | 1 | 30 | 2 | -- | -- | -- | 10 | 10 | 30 | 50 | 50 | -- | -- | 50 | 100 | 7032 | COMP | No | Only ICA | AC 14.10.2022, page-540,542 |
| 7 | 702MEOC016 | Digital Manufacturing Laboratory | Mechanical Engineering | 0 | 2 | 0 | 30 | 1 | -- | -- | -- | -- | -- | 50 | 50 | -- | -- | -- | 50 | 100 | 7032 | COMP | No | Only ICA | |
| 8 | 702EXOC021 | Electrical and Electronics Workshop | Electronics & Telecommunication | 0 | 2 | 0 | 30 | 1 | -- | -- | -- | -- | -- | 50 | 50 | -- | -- | -- | 50 | 100 | 7032 | COMP | No | Only ICA | |
| 9 | 702BSOC011 | Design Thinking | BSH-Other | 2 | 0 | 0 | 30 | 0 | -- | -- | -- | -- | -- | 50 | 50 | -- | -- | -- | 50 | 100 | 7032 | COMP | No | Only ICA | |
| 10 | 702AIOC004 | Python Programming** | Artificial Intelligence | 0 | 2 | 0 | 30 | 1 | 3 | -- | Practical | 10 | 10 | 30 | 50 | 100 | 50 | 100 | 100 | 7031 | COMP | Yes | **NUE | | |
| | | Total | | 12 | 12 | 2 | 390 | 18 | 15 | -- | -- | 60 | 60 | 380 | 500 | 500 | 250 | 750 | 750 | | | | | | |

* Term Work = Viva / Presentations/ Journals/ assignments/ quizzes / MCQs/Business plans/Role plans etc.
 ** NUE = Non University Examination (Term End Examination conducted at school level)

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

**Python Programming - NUE based course because at the end semester the exam will be in a lab with project-based problems which will help the students to become more confident about their knowledge and skills in a project-based course like python.

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 Continuous 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: 28.10.2022
 Prepared / Verified by
 Shigeeta/Jayanti

Dr. Ajay Shirke
 HoD, BSH- Department

Alka Halapiti
 Dr. Alka Mahajan
 Dean, MPSTME

| Name of the Programme: B.Tech Computer Science | | | | | | | | | | Semester III | | | | | | | | | | | | | |
|--|-----------------------|--|-------------------------------|-----------------------|--------------------------|--------------------------|--|-----------|-------------------------------|--------------|--------------|---------------------------|-----------|------------|-------------|---------------------------------|-------------------------|-----------------|-------------------|----------------|----------|--------------------------|----------|
| Sr. No. | Module / Subject Code | Name of the Module | Area / Discipline | Theory Hours per week | Practical Hours per week | Tutorials Hours per week | Total no. of hours for the subject (In term) | Credit/s | Duration of Examination (Hrs) | | Mode of Exam | Distribution of ICA Marks | | | | Examination Scheme: (Weightage) | | | | Template Codes | Category | GR applicable (Yes / No) | Remarks |
| | | | | | | | | | Term-End Examination | Only ICA | | Test I | Test II | Term work | Total Marks | Scaled to Marks (Marks) | Scaled to (Marks) Page) | Marks on (Page) | Scaled to (Marks) | | | | |
| 1 | 702BSOC064 | Probability and Statistics | BSEI:Mathematics | 2 | 2 | 0 | 60 | 3 | 3 | - | Written | 10 | 10 | 30 | 50 | 50 | 100 | 100 | 100 | 7031 | COMP | Yes | |
| 2 | 702CSOC001 | Essentials of Computer Science | Computer Science | 2 | 0 | 0 | 30 | 2 | 3 | - | Written | 10 | 10 | 30 | 50 | 50 | 100 | 100 | 100 | 7031 | COMP | Yes | |
| 3 | 702IOC014 | Environmental Science | Civil Engineering | 1 | 0 | 1 | 30 | 2 | - | - | - | 10 | 10 | 30 | 30 | 50 | - | 50 | 100 | 7032 | COMP | No | Only ICA |
| 4 | 702TFC001 | Management:Accounting for Engineers | Technology Management-Finance | 2 | 0 | 0 | 30 | 2 | 3 | - | Written | 10 | 10 | 30 | 50 | 50 | 100 | 100 | 100 | 7031 | COMP | Yes | |
| 5 | 702CSOC002 | Digital Circuits and Computer Architecture | Computer Science | 3 | 2 | 0 | 75 | 4 | 3 | - | Written | 10 | 10 | 30 | 50 | 50 | 100 | 100 | 100 | 7031 | COMP | Yes | |
| 6 | 702AIOC001 | Database Management Systems | Artificial Intelligence | 2 | 2 | 0 | 60 | 3 | 3 | - | Written | 10 | 10 | 30 | 50 | 50 | 100 | 100 | 100 | 7031 | COMP | Yes | |
| 7 | 702AIOC007 | Computer Networks | Artificial Intelligence | 2 | 2 | 0 | 50 | 3 | 3 | - | Written | 10 | 10 | 30 | 50 | 50 | 100 | 100 | 100 | 7031 | COMP | Yes | |
| 8 | 702COC001 | Data Extraction and Processing | Computer Engineering | 1 | 2 | 0 | 45 | 2 | 3 | - | - | 10 | 10 | 30 | 50 | 50 | - | 50 | 100 | 7032 | COMP | No | Only ICA |
| 9 | 702AIOC004 | Python Programming | Artificial Intelligence | 0 | 2 | 0 | 30 | 1 | 3 | - | Practical | 10 | 10 | 30 | 50 | 50 | 100 | 100 | 100 | 7031 | COMP | Yes | NUE |
| 10 | 702BSOC056 | Community Service | BSEI:General | 0 | 0 | 0 | 0 | 0 | - | - | - | - | - | 50 | 50 | 50 | - | 50 | 100 | 7032 | COMP | No | Only ICA |
| Total | | | | 15 | 12 | 1 | 420 | 22 | | | | 90 | 90 | 320 | 500 | 500 | 700 | 350 | 850 | | | | |

Term Work = Viva/ Presentations/ Journals/ assignments/ quizzes/ MCQs/Business plans/Role plays etc.
 NUE = Non University Examination (Examination conducted at school level)

Date: 11/7/22

[Signature]

Head, Computer Science Department

[Signature]

Dean/ Director, NPSTME



| Sr. No. | Module / Subject Code | Name of the Module | Area / Discipline | Theory Hours per week | Practical Hours per week | Tutorials Hours per week | Total no. of hours for the subject (in term) | Credits/s | Duration of Examination (Hrs) | Mode of Exam | Examination Scheme (Weightage) | | | | | Category | GR applicable (Yes / No) | Template Codes | Weightage % | Total Scaled Marks (ICAE* TEE) | R e m a r k | | |
|--------------|-----------------------|---|--|-----------------------|--------------------------|--------------------------|--|-----------|-------------------------------|--------------|--------------------------------|------------|---------------------------|----------------------|------------------------|------------|--------------------------|----------------|-------------|--------------------------------|-------------|----------------------|------------|
| | | | | | | | | | | | Distribution of ICA Marks | | Total Marks to be (Marks) | Scaled Marks (Marks) | Marks (Question Paper) | | | | | | | Scaled Marks (Marks) | |
| | | | | | | | | | | | Test I | Test II | | | | | | | | | | | Term work |
| 1 | 702BS0C057 | Complex Variables and Transforms | BSII: Mathematics | 3 | 0 | 1 | 60 | 4 | 3 | Written | 10 | 10 | 30 | 50 | 100 | 100 | 100 | 100 | 100 | Yes | 7031 | 100 | |
| 2 | 702BS0C047 | Discrete Mathematics | BSII: Mathematics | 2 | 0 | 1 | 45 | 3 | 3 | Written | 10 | 10 | 30 | 50 | 100 | 100 | 100 | 100 | 100 | Yes | 7031 | 100 | |
| 3 | 702C0C010 | Design and Analysis of Algorithms | Computer Engineering | 2 | 2 | 0 | 60 | 3 | 3 | Written | 10 | 10 | 30 | 50 | 100 | 100 | 100 | 100 | 100 | Yes | 7031 | 100 | |
| 4 | 702TG0C001 | Principles of Economics and Management | Technology Management-General Management | 3 | 0 | 0 | 45 | 3 | 3 | Written | 10 | 10 | 30 | 50 | 100 | 100 | 100 | 100 | 100 | Yes | 7031 | 100 | |
| 5 | 702CS0C003 | Design and Applications of Internet of Things | Computer Science | 3 | 2 | 0 | 75 | 4 | 3 | Written | 10 | 10 | 30 | 50 | 100 | 100 | 100 | 100 | 100 | Yes | 7031 | 100 | |
| 6 | 702C0C011 | Theoretical Computer Science | Computer Engineering | 2 | 0 | 1 | 45 | 3 | 3 | Written | 10 | 10 | 30 | 50 | 100 | 100 | 100 | 100 | 100 | Yes | 7031 | 100 | |
| 7 | 702A10E005 | Web Programming | Artificial Intelligence | 2 | 2 | 0 | 60 | 3 | 3 | Practical | 10 | 10 | 30 | 50 | 100 | 100 | 100 | 100 | 100 | Yes | 7031 | 100 | |
| 8 | 702C0C008 | Object Oriented Programming through JAVA | Computer Engineering | 0 | 2 | 0 | 30 | 1 | 2 | Practical | 10 | 10 | 30 | 50 | 50 | 50 | 100 | 100 | 100 | Yes | 7031 | 100 | NUE |
| Total | | | | 17 | 6 | 3 | 420 | 24 | 80 | 80 | 240 | 400 | 400 | 400 | 750 | 400 | 800 | | | No | 7031 | 100 | NUE |

*Term Work - Viva / Presentations/ Journals/ assignments/ quizzes / MCQs/Business plans/Role plans etc.
 NUE = Non University Examination (Examination conducted at school level)

Date: 12/12/22

[Signature]
 Head, Computer Science Department

[Signature]
 Dean/ Director, MPSTME



| Name of the Programme: B Tech Computer Science | | | | | | | | | | Semester V | | | | | | | | | | | | | |
|--|-----------------------|----------------------------|---|-----------------------|---------------------------|--------------------------|--|-----------|-------------------------------|------------|-------------------|---------------------------|--------------|------------------|--------------------------------|-------------------------|-------------------|----------------|------------|------------------------|--------|-----|--------------------------|
| 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 term) | Credit/s | Duration of Examination (Hrs) | | Mode of Exam | Distribution of ICA Marks | | | Examination Scheme (Weightage) | | | Template Codes | Category | GR applicable (Yes/No) | Remark | | |
| | | | | | | | | | Term End Examination | Only ICA | | Test I | Test II work | Term Total Marks | Scaled to (Marks) | Marks on Question Paper | Scaled to (Marks) | | | | | TEE | Total Weights (ICA+ TEE) |
| 1 | 702TVC016 | Software Engineering | Information Science/ Technology | 2 | 2 | 0 | 60 | 3 | 3 | - | Written | 10 | 10 | 30 | 50 | 100 | 50 | 100 | 100 | 7031 | COMP | Yes | |
| 2 | 702COC032 | Artificial Intelligence | Computer Engineering | 2 | 2 | 0 | 60 | 3 | 3 | - | Written | 10 | 10 | 30 | 50 | 100 | 50 | 100 | 100 | 7031 | COMP | Yes | |
| 3 | 702EXOC017 | Image and video Processing | Electronics and Telecommunication Engineering | 2 | 2 | 0 | 60 | 3 | 3 | - | Written | 10 | 10 | 30 | 50 | 100 | 50 | 100 | 100 | 7031 | COMP | Yes | |
| 4 | 702COC024 | Operating Systems | Computer Engineering | 2 | 2 | 0 | 60 | 3 | 3 | - | Written | 10 | 10 | 30 | 50 | 100 | 50 | 100 | 100 | 7031 | COMP | Yes | |
| 5 | | Department Elective I | | 2 | 2 | 0 | 60 | 3 | 3 | - | Written/Practical | 10 | 10 | 30 | 50 | 100 | 50 | 100 | 100 | 7031 | COMP | Yes | |
| 6 | | Open Elective I | | X | X | X | X | 3 | 3 | - | Written | 10 | 10 | 30 | 50 | 100 | 50 | 100 | 100 | 7031 | ELEC | Yes | |
| 7 | | Open Elective II | | X | X | X | X | 3 | 3 | - | Written | 10 | 10 | 30 | 50 | 100 | 50 | 100 | 100 | 7031 | INTD | Yes | |
| | | Total | | 10 | 10 | 0 | 300 | 21 | | | | 70 | 70 | 210 | 350 | 700 | 350 | 700 | 700 | | | | |

| Department Elective-I (Choose Any One) | | | | | | | |
|--|--------------------------------|-------------------------|---|---|---|---|---------|
| Code | Subject | Area / Discipline | L | P | T | C | Remarks |
| 702COC004 | Advanced Web Programming | Computer Engineering | 2 | 2 | 0 | 3 | NUE |
| 702AI0E002 | Mobile Application Development | Artificial Intelligence | 2 | 2 | 0 | 3 | NUE |
| 702COC003 | Operations Research | Computer Engineering | 2 | 2 | 0 | 3 | |

*Term Work = Viva / Presentations/ Journals/ assignments/ quizzes / MCQs/business plans/sole plans etc.
 NUE = Non University Examination (Examination conducted at school level)

Date: 11/7/22


 Head, Computer Science Department




 Dean/ Director, MF/ST/ME

| Name of the Programme: B Tech Computer Science | | | | | | | | | | Year of the Programme: Second Year | | | | | | | | | | Semester: VI | | | | |
|--|-----------------------|---------------------------|--|-----------------------|---------------------------|--------------------------|--|-----------|-------------------------------|------------------------------------|--------------|---|-----------|------------|--------------------------------|-------------|-------------------|----------------|----------|------------------------|---------|-------------------------|-------------------|-----|
| 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 term) | Credit/s | Duration of Examination (Hrs) | | Mode of Exam | Distribution of ICA Marks | | | Examination Scheme (Weightage) | | | Template Codes | Category | GR applicable (Yes/No) | Remarks | | | |
| | | | | | | | | | Term End Examination | Only ICA | | Written / Offline/On line/Computer based / Practical/Viva /Jury/ Presentation | Test I | Test II | Term work | Total Marks | Scaled to (Marks) | | | | | Marks on Question Paper | Scaled to (Marks) | TEE |
| 1 | 702A10E004 | Cyber Security | Artificial Intelligence | 2 | 2 | 0 | 60 | 3 | 3 | - | Written | 10 | 10 | 30 | 50 | 100 | 50 | 100 | 100 | 7031 | COMP | Yes | | |
| 2 | 702C00C027 | Machine Learning | Computer Engineering | 2 | 2 | 0 | 60 | 3 | 3 | - | Written | 10 | 10 | 30 | 50 | 100 | 50 | 100 | 100 | 7031 | COMP | Yes | | |
| 3 | 702C00C034 | Distributed Computing | Computer Engineering | 2 | 2 | 0 | 60 | 3 | 3 | - | Written | 10 | 10 | 30 | 50 | 100 | 50 | 100 | 100 | 7031 | COMP | Yes | | |
| 4 | | 1 Department Elective-II | Computer Engineering | 2 | 2 | 0 | 60 | 3 | 3 | - | Written | 10 | 10 | 30 | 50 | 100 | 50 | 100 | 100 | 7031 | COMP | Yes | | |
| 5 | | 2 Department Elective-III | Engineering/ Information Science/ Technology | 2 | 2 | 0 | 60 | 3 | 3 | - | Written | 10 | 10 | 30 | 50 | 100 | 50 | 100 | 100 | 7031 | ELEC | Yes | | |
| 6 | | 3 Open Elective III | | X | X | X | X | 3 | 3 | - | | 10 | 10 | 30 | 50 | 100 | 50 | 100 | 100 | 7031 | INTD | Yes | | |
| 7 | | 4 Open Elective IV | | X | X | X | X | 3 | 3 | - | Written | 10 | 10 | 30 | 50 | 100 | 50 | 100 | 100 | 7031 | INTD | Yes | | |
| | | | | 10 | 10 | 0 | 300 | 21 | | | | 70 | 70 | 210 | 350 | 700 | 350 | 700 | | | | | | |

| Department Elective-II (Choose Any One) | | | | | | | | | |
|---|---|----------------------|---|---|---|---|---------|--|--|
| Code | Subject | Area / Discipline | L | P | T | C | Remarks | | |
| 702C00E006 | Computer Vision | Computer Engineering | 2 | 2 | 0 | 3 | | | |
| 702C00E007 | Human Computer Interaction | Computer Engineering | 2 | 2 | 0 | 3 | | | |
| 702C00E008 | Business Information Visualization and Analysis | Computer Engineering | 2 | 2 | 0 | 3 | | | |

| Department Elective-III (Choose Any One) | | | | | | | | | |
|--|--------------------------------|---------------------------------|---|---|---|---|---------|--|--|
| Code | Subject | Area / Discipline | L | P | T | C | Remarks | | |
| 702C00E009 | Biometrics | Computer Engineering | 2 | 2 | 0 | 3 | | | |
| 702C00E010 | Microservices and Architecture | Computer Engineering | 2 | 2 | 0 | 3 | | | |
| 702I0E022 | Software Quality Assurance | Information Science/ Technology | 2 | 2 | 0 | 3 | | | |

*Term Work = Viva / Presentations/ Journals/ assignments/ quizzes / MCQs/Business plans/Role plans etc.
 NUE = Non University Examination (Examination conducted at school level)

Date: 12/12/22

[Signature]
 Head, Computer Science Department



[Signature]
 Dean/ Director, MP-STME

| Sr. No | Module / Subject Code | Name of the Module | Area / Discipline | Theory Hours per week | Practical Hours per week | Tutorials Hours per week | Total no. of hours for the subject (In term) | Credits/s | Duration of Examination (Hrs) | | Mode of Exam | Examination Scheme (Weightage) | | | | Template Codes | Category | GR applicable (Yes / No) | Remarks | | | | | |
|--------------|-----------------------|---|----------------------|-----------------------|--------------------------|--------------------------|--|-----------|--|-----------|--------------|--------------------------------|------------|------------|-------------|----------------|------------|--------------------------|---------|-------------------------|-----------------------|-------------------------|----------|--|
| | | | | | | | | | Term End Examination | Only ICA | | Test I | Test II | Term work | Total Marks | | | | | Scaled to (Marks) Paper | Scaled to (Marks) TEE | Scaled Marks (ICA+ TEE) | Total | |
| | | | | | | | | | Written / Offline/On live/Computer based / Practical/Viva /Ivy/ Presentation | Written | | Written | Written | Written | Written | | | | | Written | Written | Written | | |
| 1 | MBAE07002 | Technical Internship Program | Engineering | 0 | 0 | 0 | 0 | 4 | - | - | - | 0 | 0 | 100 | 100 | 0 | 0 | 100 | 100 | 7032 | COMP | No | Only ICA | |
| 2 | MBCO07010 | Project Phase - I | Computer Engineering | 0 | 8 | 0 | 120 | 4 | - | - | - | 0 | 0 | 100 | 100 | 0 | 0 | 100 | 100 | 7032 | COMP | No | Only ICA | |
| 3 | BTCO06014 | Business Visualization | Computer Engineering | 2 | 0 | 0 | 30 | 2 | - | - | - | 10 | 10 | 30 | 50 | 0 | 0 | 50 | 100 | 7032 | COMP | No | Only ICA | |
| 4 | | Department Elective-II (Choose Any One) | Computer Engineering | 3 | 2 | 0 | 75 | 4 | - | - | Written | 10 | 10 | 30 | 50 | 50 | 100 | 50 | 100 | 7031 | ELEC | Yes | | |
| 5 | | Open Elective I (Choose Any One) | Computer Engineering | 3 | 0 | 0 | 45 | 3 | - | - | Written | 10 | 10 | 30 | 50 | 50 | 100 | 50 | 100 | 7031 | ELEC | Yes | | |
| Total | | | | 8 | 10 | 0 | 270 | 17 | | 30 | 30 | 290 | 350 | 350 | 200 | 100 | 450 | | | | | | | |

| Code | Subject |
|-----------|-------------------------|
| MBOECO001 | Artificial Intelligence |
| MBOECOM01 | Machine Learning |

| Code | Subject |
|-----------|------------------------------------|
| BTCO07014 | Database Security |
| BTCO07015 | Fundamentals of Blockchain |
| BTCO07016 | Software Architecture |
| BTCO07017 | Computer Vision |
| BTCO07018 | Machine Learning |
| BTCO06010 | Information Storage and Management |

*Term Work = Viva / Presentations/ Journals/ assignments/ quizzes / MCQs/ Business plans/ Role plans etc.
 NUE = Non University Examination (Examination conducted at school level)

Date: 11/7/22

Head, Computer Science Department



Dean, Director, NPSTIME

| Sr. No. | Module / Subject Code | Name of the Module | Area / Discipline | Theor. Practicals | | Total no. of hours for the subject (in term) | Credits/s | Duration of Examination (Hrs) | | Mode of Exam | Distribution of ICA Marks | | | Marks (Questions on Paper) | | Scaled to (ICAW % TEE) | Templete Codes | Category | GR applicable (Yes / No) | R e m a r k | | | |
|--------------|-----------------------|--|----------------------|-------------------|---------------------|--|-----------|-------------------------------|----------------|--------------|---------------------------|----------------|----------------|----------------------------|-------------------|------------------------|----------------|------------|--------------------------|-------------|----------------|------------|--|
| | | | | Hours per week | Practicals per week | | | Term End Examination | Only ICA | | Test I | Test II | Term work | Total Marks | Scaled to (Marks) | | | | | | Total | | |
| | | | | Hours per week | Practicals per week | | | Hours per week | Hours per week | | Hours per week | Hours per week | Hours per week | Hours per week | Hours per week | | | | | | Hours per week | | |
| 1 | MBCO08009 | Project Phase - II | Computer Engineering | 0 | 12 | 0 | 180 | 6 | - | - | 0 | 0 | 100 | 100 | 0 | 0 | 100 | 100 | 7032 | COMP | No | Only ICA | |
| 2 | | Department Elective III (Choose Any One) | Computer Engineering | 3 | 2 | 0 | 75 | 4 | - | Written | 10 | 10 | 30 | 50 | 50 | 100 | 100 | 100 | 7031 | ELEC | Yes | | |
| 3 | | Department Elective IV (Choose Any One) | Computer Engineering | 3 | 2 | 0 | 75 | 4 | - | Written | 10 | 10 | 30 | 50 | 50 | 100 | 100 | 100 | 7031 | ELEC | Yes | | |
| 4 | | Open Elective II (Choose Any One) | Computer Engineering | 3 | 0 | 0 | 45 | 3 | - | Written | 10 | 10 | 30 | 50 | 50 | 100 | 100 | 100 | 7031 | ELEC | Yes | | |
| Total | | | | 9 | | 16 | | 0 | | 375 | | 17 | | 30 | | 190 | | 250 | | 300 | | 400 | |

| Code | Subject |
|-----------|--|
| MBCO07011 | Deep Learning |
| BTCO07007 | Embedded System |
| MBCO07013 | Software Quality Assurance and Testing |
| MBCO07014 | Network Security |
| BTCO08007 | Biometrics |
| BTCO08012 | Cloud Computing and IoT |

| Code | Subject |
|-----------|------------------------------------|
| BTCO08006 | Robotics |
| BTCO07001 | Distributed Computing |
| MBCO08010 | Software Project Management |
| MBCO08011 | Cyber Security and Ethical Hacking |
| MBCO08012 | Image and Video Analysis |
| MBCO08013 | Natural Language Processing |

| Code | Subject |
|------------|----------------------------|
| MBOECOD001 | Deep Learning |
| MBOECO1001 | Introduction to Blockchain |

*Term Work = Viva / Presentations/ Journals/ assignments/ quizzes/ MCQs/Business plans/Role plans etc.
 NUF = Non University Examination (Examination conducted at school level)

Date: 12/12/22

[Signature]
 Head, Computer Science Department

[Signature]
 Dean/ Director, MPSTME

