Sant Gadge Baba Amravati University, Amravati

Scheme of Implementation for

Four Year Undergraduate Degree Programme in Engineering and Technology

B.E. Information Technology

in the faculty of Science and Technology

ACADEMIC EVALUATION SCHEME/CREDIT SYSTEM

Year: 2024-25

(Scheme of Teaching, Learning, Examination & Evaluation w.e.f. 2024-2025 and onwards)

| | Scheme for Fi | | | | _ | | Enginee emester | | gree Pro | gram | me | | |
|--------|---------------------------------|----------|----------|------------------|--------|--------|--------------------|-------|----------------|-------|------------------|-------|-------------------|
| Sr No. | Course Name | Code | Cour | rse Plan (Hrs | s.) | | Credits | | eory lation | Evalu | ctical nation | Total | ESE Time Hrs.) |
| | | | L | P | T | Hrs. | | IE | ESE | INT | EXT | | |
| | | | | Core | Cours | es | | | | | | | |
| 1 | Applied Mathematics -I (BSC) | 1AL100BS | 3 | 0 | 0 | 3 | 3 | 40 | 60 | | | 100 | 3.00 Hrs. |
| 2 | Engineering Physics (BSC) | 1AL101BS | 3 | 0 | 0 | 3 | 3 | 40 | 60 | | | 100 | 3.00 Hrs. |
| 3 | Computer Programming (ESC) | 1AL102ES | 3 | 0 | 0 | 3 | 3 | 40 | 60 | | | 100 | 3.00 Hrs. |
| 4 | Engineering Mechanics (ESC) | 1AL103ES | 3 | 0 | 0 | 3 | 3 | 40 | 60 | | | 100 | 3.00 Hrs. |
| | | · | I | aborato | ory Co | urses | | | | | | | |
| 5 | Engineering Physics Lab (BSC) | 1AL104BS | 0 | 2 | 0 | 2 | 1 | | | 25 | 25 | 50 | |
| 6 | Computer Programming Lab (ESC) | 1AL105ES | 0 | 2 | 0 | 2 | 1 | | | 25 | 25 | 50 | |
| 7 | Engineering Mechanics Lab (ESC) | 1AL106ES | 0 | 2 | 0 | 2 | 1 | | | 25 | 25 | 50 | |
| 8 | Workshop (ESC) | 1AL107ES | 0 | 2 | 0 | 2 | 1 | | | 25 | 25 | 50 | |
| | | Vocation | al and S | kill Enh | ancen | ent C | ourses (V | (SEC) | | | • | | |
| 9 | Introduction to Web Technology | 1CS108VS | 1 | 2 | 0 | 3 | 2 | | | 50 | - | 50 | |
| | | A | bility E | nhancen | nent C | ourses | s (AEC) | | | | | | |
| 10 | Professional Communication | 1AL109AE | 1 | 2 | 0 | 3 | 2 | | | 25 | 25 | 50 | |
| | | | Co-c | urricula | ar Cou | rse (C | C) | | | | | | |
| 11 | Co-curricular Course (CC) | 1AL110CC | 0 | 4 | 0 | 4 | 2 | | | 50 | - | 50 | |
| | TOTAL | | 14 | 16 | 0 | 30 | 22 | | | | | 750 | |

| | Scheme for Fi | | | | _ | | Engineer mester | | gree Pro | gram | ıme | | |
|--------|--|----------|-----------|------------------|--------|---------|--------------------|-------|----------------|------|------------------|-------|-------------------|
| Sr No. | Course Name | Code | Cour | rse Plan (Hrs | _ | eek | Credits | | eory nation | | ctical uation | Total | ESE Time Hrs.) |
| | | | L | P | T | Hrs. | | IE | ESE | INT | EXT | | |
| | | | | Core | Cours | es | · · | | • | • | • | | |
| 1 | Applied Mathematics -II (BSC) | 2AL111BS | 3 | 0 | 0 | 3 | 3 | 40 | 60 | | | 100 | 3.00 Hrs. |
| 2 | Engineering Chemistry (BSC) | 2AL112BS | 3 | 0 | 0 | 3 | 3 | 40 | 60 | | | 100 | 3.00 Hrs. |
| 3 | Basic Electrical Engineering (ESC) | 2AL113ES | 3 | 0 | 0 | 3 | 3 | 40 | 60 | | | 100 | 3.00 Hrs. |
| 4 | Engineering Graphics (ESC) | 2AL114ES | 2 | 0 | 0 | 2 | 2 | 40 | 60 | | | 100 | 3.00 Hrs. |
| | | | J | Laborat | ory Co | ourses | | | | | | | |
| 5 | Engineering Chemistry Lab (BSC) | 2AL115BS | 0 | 2 | 0 | 2 | 1 | | | 25 | 25 | 50 | |
| 6 | Basic Electrical Engineering Lab (ESC) | 2AL116ES | 0 | 2 | 0 | 2 | 1 | | | 25 | 25 | 50 | |
| 7 | Engineering Graphics Lab (ESC) | 2AL117ES | 0 | 2 | 0 | 2 | 1 | | | 25 | 25 | 50 | |
| | | Vocation | nal and S | skill En | hancer | nent C | Courses (V | /SEC) | | | | | |
| 8 | Computer Hardware & Networking | 2CS118VS | 1 | 2 | 0 | 3 | 2 | | | 50 | - | 50 | |
| | | 1 | Progra | mme C | ore Co | urse (| PCC) | | | | | | |
| 9 | Computer Fundamentals | 2CS119PC | 2 | 0 | 0 | 2 | 2 | 20 | 30 | | | 50 | 2.00 Hrs. |
| | | | Indian | Knowle | edge S | ystem | (IKS) | | | | | | |
| 10 | Indian Traditional Knowledge | 2AL120IK | 2 | 0 | 0 | 2 | 2 | 20 | 30 | | | 50 | 2.00 Hrs. |
| | | • | Co-c | curricul | ar Cou | ırse (C | CC) | | 1 | 1 | | | <u>'</u> |
| 11 | Co-curricular Course (CC) | 2AL121CC | 0 | 4 | 0 | 4 | 2 | | | 50 | - | 50 | |
| | TOTAL | | 16 | 12 | 0 | 28 | 22 | | | | | 750 | |

Scheme for Multiple Entry and Exit

| xit o | it option -1 (L4.5): Award of UG Certificate in Major with 44 credits and an additional 8 credits | | | | | | | | |
|-------|---|----------------|---|--|--|--|--|--|--|
| | Exit Courses | | | | | | | | |
| 1 | Electronics Servicing and Maintenance | Online/offline | 4 | | | | | | |
| 2 | Assembly & Maintenance of Personal Computer | certification | 4 | | | | | | |
| | | Course | | | | | | | |
| | OR | | | | | | | | |
| 3 | Two Month Internship at Industry (288-320 Hours) | | 8 | | | | | | |

| | Scheme for Sec | ond Year For B.E. in In | | | _ | | _ | | egree Pr | ograi | mme | | |
|--------|--|----------------------------|----------|------------------|---------|---------|----------------|----------|----------------|-------|------------------|-------|-------------------|
| Sr No. | Course Name | Code | Cour | rse Plan (Hrs | - | 'eek | Credits | | eory nation | | ctical nation | Total | ESE Time Hrs.) |
| | | | L | P | T | Hrs. | | IE | ESE | INT | EXT | | |
| | | · | | Core | Cours | es | | | | • | • | • | |
| 1 | Discrete Structure & Graph Theory | 3IT200PC | 3 | 0 | 0 | 3 | 3 | 40 | 60 | | | 100 | 3.00 Hrs. |
| 2 | Object Oriented Programming | 3IT201PC | 3 | 0 | 0 | 3 | 3 | 40 | 60 | | | 100 | 3.00 Hrs. |
| 3 | Analog & Digital Electronics | 3IT202PC | 3 | 0 | 0 | 3 | 3 | 40 | 60 | | | 100 | 3.00 Hrs. |
| | | |] | Laborat | ory Co | ourses | | | | • | • | | |
| 4 | Community Engagement Project* / Field Project ** | 3IT400EL | 0 | 4 | 0 | 4 | 2 | | | 25 | 25 | 50 | |
| 5 | Object Oriented Programming | 3IT203PC | 0 | 2 | 0 | 2 | 1 | | | 25 | 25 | 50 | |
| 6 | Analog & Digital Electronics | 3IT204PC | 0 | 2 | 0 | 2 | 1 | | | 25 | 25 | 50 | |
| | | | Mı | ultidisci | plinar | y Mino | or | | | • | | | |
| 7 | Multidisciplinary Minor-I* | 3IT205MD | 2 | 0 | 0 | 2 | 2 | 20 | 30 | - | - | 50 | 2.00 Hrs. |
| | | Open | Elective | other tl | han a j | particu | ılar Progi | ram | | | | | |
| 8 | Open Elective -I | 3IT206OE | 3 | 0 | 0 | 3 | 3 | 40 | 60 | - | - | 100 | 3.00 Hrs. |
| | | HSSMC (Enti | reprenet | ırship/ l | Econor | mics/ N | Janagem | ent Cour | se) | • | • | • | • |
| 9 | Entrepreneurship Development | 3IT207EM | 2 | 0 | 0 | 2 | 2 | 20 | 30 | - | - | 50 | 2.00 Hrs. |
| | | , | Value E | ducatio | on Co | urse (| VEC) | | | • | • | | • |
| 10 | Environmental Science | 3SH208VE | 2 | 0 | 0 | 2 | 2 | 20 | 30 | | | 50 | 2.00 Hrs. |
| | TOTAL | | 18 | 8 | 0 | 26 | 22 | | | | | 700 | |

L: Lecture P: Practical

T: Tutorial ESE: End Semester Exam

IE: Internal Evaluation

INT: Internal

EXT: External

Open Elective I-i) Cyber Law $\hspace{1.5cm} ii)$ Web Technology

iii) Internet of Things (IOT)

^{*}Please refer list of Multidisciplinary Minor courses attached separately

| | Scheme for Seco | | | | 0 | | U | U | egree Pr | rograi | nme | | |
|-----------|--------------------------------------|----------------|-----------|-----------------------------|-----------|---------|------------|----------|----------------|---------------|------------------|---------|-------------------|
| Sr No. | Course Name | B.E. in In | | ion Tec rse Plan (Hrs | per W | | Credits | The | eory nation | Prac Evalu | ctical nation | Total | ESE Time Hrs.) |
| | | | L | P | T | Hrs. | | IE | ESE | INT | EXT | | |
| | | | | Core | Cours | es | | | | | ļ | | |
| 1 | Data Structures | 4IT209PC | 3 | 0 | 0 | 3 | 3 | 40 | 60 | | | 100 | 3.00 Hrs. |
| 2 | Data Communication & Networking | 4IT210PC | 3 | 0 | 0 | 3 | 3 | 40 | 60 | | | 100 | 3.00 Hrs. |
| 3 | Computer Organization & Architecture | 4IT211PC | 2 | 0 | 0 | 2 | 2 | 40 | 60 | | | 100 | 3.00 Hrs. |
| | | | | Laborat | ory Co | ourses | 1 | | 1 | | J. | | |
| 4 | Data Structures | 4IT212PC | 0 | 2 | 0 | 2 | 1 | | | 25 | 25 | 50 | |
| 5 | Data Communication & Networking | 4IT213PC | 0 | 2 | 0 | 2 | 1 | | | 25 | 25 | 50 | |
| | | | Mı | ultidisci | plinar | y Mino | or | | | | ļ | | |
| 6 | Multidisciplinary Minor -II* | 4IT214MD | 2 | 0 | 0 | 2 | 2 | 20 | 30 | - | - | 50 | 2.00 Hrs. |
| | | Voca | ational a | nd Skil | l Enha | nceme | ent Cours | es | | 1 | , | | • |
| 7 | Computer Skills-I | 4IT215VS | 1 | 2 | 0 | 3 | 2 | | | 50 | - | 50 | |
| | | Open E | Elective | other th | an a p | articu | lar Progr | am | | 1 | | | ' |
| 8 | Open Elective- II | 4IT216OE | 2 | 0 | 0 | 2 | 2 | 20 | 30 | | | 50 | 2.00 Hrs. |
| | | HSSMC (Entr | eprenei | ırship/ l | Econo | mics/ N | Managem | ent Cour | se) | | | | , |
| 9 | IT Ethics and Management | 4IT217EM | 2 | 0 | 0 | 2 | 2 | 20 | 30 | | | 50 | 2.00 Hrs. |
| | | (A | bility E | nhance | ment (| Course | (AEC) | | | • | • | | • |
| 10 | Modern Indian Language | 4SH218AE | 2 | 0 | 0 | 2 | 2 | | | 25 | 25 | 50 | |
| | | | Value E | ducatio | on Co | urse (| VEC) | | | | | | |
| 11 | Universal Human Value & Ethics | 4SH219VE | 2 | 0 | 0 | 2 | 2 | 20 | 30 | | | 50 | 2.00 Hrs. |
| | TOTAL | | 19 | 06 | 0 | 25 | 22 | | | | | 700 | |
| L: Lectur | re P: Practical T: Tutorial E | SE: End Semest | ter Exan | 1 | IE: Int | ernal E | evaluation | INT | : Internal | l | EXT: | Externa | al |

Open Elective II – i) Intellectual Property Right

ii) Artificial Intelligence

iii) E-Commerce

^{*}Please refer list of Multidisciplinary Minor courses attached separately

Scheme for Multiple Entry and Exit

| | Exit option -2 (L5.0): Award of UG Diploma in Major with 8 | 88 credits and an additional cre | |
|---|--|----------------------------------|---|
| | Exit Courses | | |
| 1 | NPTEL Course on Operating Systems | Online/offline | 4 |
| | OR | certification | |
| 2 | NPTEL Course on Database Management Systems | Course | 4 |
| | AND | | |
| 3 | One Month Internship at Industry | | 4 |

| | Scheme for T | hird Year Fou B.E. in I | | | _ | | | | gree Pr | ogran | nme | | |
|--------|--------------------------------|----------------------------|----------|------------------|---------|--------|-----------|----|----------------|-------|------------------|-------|-------------------|
| Sr No. | Course Name | Code | Cour | rse Plan (Hrs | _ | eek . | Credits | | eory uation | | ctical uation | Total | ESE Time Hrs.) |
| | | | L | P | T | Hrs. | | IE | ESE | INT | EXT | | |
| | | | • | Core | Cours | es | , | | 1 | | · | | • |
| 1 | Database Management Systems | 5IT220PC | 3 | 0 | 0 | 3 | 3 | 40 | 60 | | | 100 | 3.00 Hrs. |
| 2 | Operating Systems | 5IT221PC | 3 | 0 | 0 | 3 | 3 | 40 | 60 | | | 100 | 3.00 Hrs. |
| 3 | Theory of Computation | 5IT222PC | 3 | 0 | 0 | 3 | 3 | 40 | 60 | | | 100 | 3.00 Hrs. |
| 4 | Programme Elective Course -I | 5IT223PE | 3 | 0 | 0 | 3 | 3 | 40 | 60 | | | 100 | 3.00 Hrs. |
| | | • |] | Laborat | ory Co | ourses | | | | | | | |
| 5 | Database Management Systems | 5IT224PC | 0 | 2 | 0 | 2 | 1 | | | 25 | 25 | 50 | |
| 6 | Operating Systems | 5IT225PC | 0 | 2 | 0 | 2 | 1 | | | 25 | 25 | 50 | |
| 7 | Programme Elective Course -I | 5IT226PE | 0 | 2 | 0 | 2 | 1 | | | 25 | 25 | 50 | |
| | | | M | ultidisci | plinar | y Mino | or | | 1 | | | | • |
| 8 | Multidisciplinary Minor -III * | 5IT227MD | 2 | 0 | 0 | 2 | 2 | 20 | 30 | | | 50 | 2.00 Hrs. |
| 9 | Multidisciplinary Minor -IV* | 5IT228MD | 2 | 0 | 0 | 2 | 2 | 20 | 30 | | | 50 | 2.00 Hrs. |
| 10 | Multidisciplinary Minor Lab-I* | 5IT229ML | 0 | 2 | 0 | 2 | 1 | | | 25 | 25 | 50 | |
| | | | Elective | other th | nan a p | articu | lar Progr | am | | | | | • |
| 11 | Open Elective- III | 5IT230OE | 2 | 0 | 0 | 2 | 2 | 20 | 30 | | | 50 | 2.00 Hrs. |
| | TOTAL | | 18 | 08 | 0 | 26 | 22 | | | | | 750 | |

Program Elective Course I – i) Information Security Systems

ii) Data Science & Statistics

iii) Internet of Things

Open Elective III –

i) Fundamentals of Cyber Security

ii) Design Thanking & Innovation

iii) Principals of Management

Note: Six hours per week are allotted for continuous evaluation process for above subjects. (Total contact hours per week= 34 Hours)

*Please refer list of Multidisciplinary Minor courses attached separately

| | Scheme for Thi | | | _ | | | ngineerir nester - | 0 | ee Prog | ramm | e B.E | /• | |
|--------|--------------------------------|----------|----------|------------------|--------|--------|-----------------------|------|----------------|------|----------------|-------|-------------------|
| Sr No. | Course Name | Code | Cour | rse Plan (Hrs | | eek | Credits | | eory nation | | tical ation | Total | ESE Time Hrs.) |
| | | | L | P | T | Hrs. | | IE | ESE | INT | EXT | | |
| | | | | Core | Cours | es | | | • | , | 1 | | <u> </u> |
| 1 | Compiler Design | 6IT231PC | 3 | 0 | 0 | 3 | 3 | 40 | 60 | | | 100 | 3.00 Hrs. |
| 2 | Design & Analysis of Algorithm | 6IT232PC | 3 | 0 | 0 | 3 | 3 | 40 | 60 | | | 100 | 3.00 Hrs. |
| 3 | Artificial Intelligence | 6IT233PC | 3 | 0 | 0 | 3 | 3 | 40 | 60 | | | 100 | 3.00 Hrs. |
| 4 | Program Elective Course -II | 6IT234PE | 3 | 0 | 0 | 3 | 3 | 40 | 60 | | | 100 | 3.00 Hrs. |
| 5 | Program Elective Course -III | 6IT235PE | 3 | 0 | 0 | 3 | 3 | 40 | 60 | | | 100 | 3.00 Hrs. |
| | | , | | Laborat | ory Co | ourses | , , | | 1 | | Į. | | |
| 6 | Compiler Design | 6IT236PC | 0 | 2 | 0 | 2 | 1 | | | 25 | 25 | 50 | |
| 7 | Design & Analysis of Algorithm | 6IT237PC | 0 | 2 | 0 | 2 | 1 | | | 25 | 25 | 50 | |
| 8 | Artificial Intelligence | 6IT238PC | 0 | 2 | 0 | 2 | 1 | | | 25 | 25 | 50 | |
| | | | Mı | ultidisci | plinar | y Min | or | | | * | | • | |
| 9 | Multidisciplinary Minor -V * | 6IT239MD | 2 | 0 | 0 | 2 | 2 | 20 | 30 | | | 50 | 2.00 Hrs. |
| | | Voca | tional a | nd Skill | Enha | nceme | nt Course | es . | ! | | ļ | l | |
| 10 | Computer Skills - I | 6IT240VS | 1 | 2 | 0 | 3 | 2 | | | 50 | - | 50 | |
| | TOTAL | | 18 | 08 | 0 | 26 | 22 | | | | | 750 | |

Program Elective Course –II

i) Cryptography

ii) Network Security

ii) Big Data Analytics

Program Elective Course –III

i) Cyber Security

ii) Cognitive Technology

iii) Software Testing

^{*}Please refer list of Multidisciplinary Minor courses attached separately

Scheme for Multiple Entry and Exit

| | Exit option -3 (L5.5): Award of B-Voc in Major with 1 Exit Courses | 132 credits and an additional 8 cred | dits |
|---|---|--------------------------------------|------|
| 1 | Certified Database Engineer (Oracle, DB2) | | 4 |
| | AND | Online/offline certification | |
| 2 | Certified Cloud Engineer (AWS,AZURE) | Course | 4 |
| | OR | | |
| 3 | Two Month (288-320 Hours) Internship at Industry | | 8 |

| | Scheme for For | ırth Year Foi B.E. in Inf | | | | | | _ | egree Pi | rograi | mme | | |
|--------|-----------------------------------|------------------------------|------|------------------|--------|--------|---------|----|----------------|--------|------------------|-------|------------------|
| Sr No. | Course Name | Code | Cour | rse Plan (Hrs | | 'eek | Credits | | eory uation | l l | ctical uation | Total | ESE Time Hrs) |
| | | | L | P | T | Hrs. | | IE | ESE | INT | EXT | | |
| | | | | Core | Cours | es | | | 1 | | | | |
| 1 | Software Engineering | 7IT300PC | 3 | 0 | 0 | 3 | 3 | 40 | 60 | | | 100 | 3.00 Hrs. |
| 2 | Object Oriented Analysis & Design | 7IT301PC | 3 | 0 | 0 | 3 | 3 | 40 | 60 | | | 100 | 3.00 Hrs. |
| 3 | Program Elective Course -IV | 7IT302PE | 3 | 0 | 0 | 3 | 3 | 40 | 60 | | | 100 | 3.00 Hrs. |
| 4 | Program Elective Course -V | 7IT303PE | 3 | 0 | 0 | 3 | 3 | 40 | 60 | | | 100 | 3.00 Hrs. |
| 5 | Program Elective Course -VI | 7IT304PE | 3 | 0 | 0 | 3 | 3 | 40 | 60 | | | 100 | 3.00 Hrs. |
| | | • | J | Laborat | ory Co | ourses | | | | | | | |
| 6 | Software Engineering | 7IT305PC | 0 | 2 | 0 | 2 | 1 | | | 25 | 25 | 50 | |
| 7 | Object Oriented Analysis & Design | 7IT306PC | 0 | 2 | 0 | 2 | 1 | | | 25 | 25 | 50 | |
| | | | M | ultidisci | plinar | y Mino | or | | | | | ļ. | |
| 8 | Multidisciplinary Minor -VI* | 7IT307MD | 2 | 0 | 0 | 2 | 2 | 20 | 30 | | | 50 | 2.00 Hrs. |
| 9 | Multidisciplinary Minor Lab -II * | 7IT308ML | 0 | 2 | 0 | 2 | 1 | | | 25 | 25 | 50 | |
| | | | ļ | P | roject | | 1 | | | | | | |
| 10 | Project | 7IT401PR | 0 | 4 | 0 | 4 | 2 | | | 50 | 50 | 100 | |
| | TOTAL | | 17 | 10 | 0 | 27 | 22 | | | | | 800 | |

Program Elective Course –IV

i) Machine Learning

ii) Dataware Housing & Data Mining

iii) Blockchain Fundamentals

Program Elective Course –V

D. J. H. III

ii) Cloud Computing

iii) Digital Forensics

Program Elective Course –VI

i) Business Intelligencei) Mobile Computing

ii) Embedded System

iii) Virtual & Augmented Reality

^{*}Please refer list of Multidisciplinary Minor courses attached separately

| | Scheme for Four | rth Year Fou B.E. in Info | | | _ | | | _ | egree Pr | ograr | nme | | |
|--------|----------------------|------------------------------|------|------------------|---|------|---------|--------------|--------------|---------------|----------------|-------|------------------|
| Sr No. | Course Name | Code | Cour | rse Plan (Hrs | _ | 'eek | Credits | The Evalu | ory ation | Prac Evalu | tical ation | Total | ESE Time Hrs) |
| | | | L | P | T | Hrs. | | IE | ESE | INT | EXT | | |
| | | Core Courses | | | | | | | | | | | |
| 1 | Research Methodology | 8IT309RM | 4* | | | 4 | 4 | 40 | 60 | | | 100 | 3.00 Hrs. |
| 2 | Industry Internship | 8IT402EL | 0 | 24 | 0 | 24 | 12 | | | 100 | 200 | 300 | |
| 3 | Project | 8IT403PR | 0 | 4 | 0 | 4 | 2 | | | 50 | 50 | 100 | |
| | TOTAL | | 4 | 28 | 0 | 32 | 18 | | | | | 500 | |

L: Lecture P: Practical T: Tutorial ESE: End Semester Exam IE: Internal Evaluation INT: Internal EXT: External Note: Six hours per week are allotted for continuous evaluation process for above subjects. (Total contact hours per week= 34 Hours)

^{*}The course on Research Methodology may be completed by the student in Online mode (Swayam, MOOC's, any other platform approved by AICTE OR on the LMS platform offered by the Institute).

Multidisciplinary Minor Courses

| Sem | MDM | Course Code | Credi | it | Course Name |
|-----|------------|-------------|-------|----|-----------------------------------|
| | | | T | P | |
| III | MDM-I | 3IT205MD | 2 | 0 | Introduction to Data Structures |
| IV | MDM-II | 4IT214MD | 2 | 0 | Introduction to Operating Systems |
| | MDM-III | 5IT227MD | 2 | 0 | Computer Networks |
| V | MDM-IV | 5IT228MD | 2 | 0 | Object Oriented Programming |
| | MDM-Lab I | 5IT229ML | 0 | 1 | Object Oriented Programming Lab |
| VI | MDM-V | 6IT239MD | 2 | 0 | Software Project Management |
| VII | MDM-VI | 7IT307MD | 2 | 0 | Database Management System |
| | MDM-Lab II | 7IT308ML | 0 | 1 | Database Management System Lab |
| | | | 12 | 02 | |

Nomenclature: Name of Department offering the courses

| Acronym | Discipline of engineering/Department |
|---------|---|
| | offering the course |
| SH | Science and Humanities |
| ME | Mechanical Engineering |
| EE | Electrical Engineering |
| CS | Computer Science and Engineering |
| CE | Civil Engineering |
| IT | Information Technology |
| ET | Electronics & Telecommunication Engg. |
| TX | Textile Engineering |
| EP | Electrical (Electronics & Power) Engg. |
| AD | Artificial Engineering and Data Science |
| СН | Chemical Engineering |
| DS | CSE (Data Science) |

| Acronym | Course/Subject Vertical |
|---------|---------------------------------------|
| VS | Vocational Skill Enhancement Course |
| AE | Ability Enhancement Course |
| EM | Entrepreneurship/Economics/Management |
| | Course |
| IK | Indian Knowledge System |
| VE | Value Education Course |
| RM | Research Methodology |
| FP | Field Project |
| II | Industry Internship |
| PR | Project |
| CC | Co-curricular Course |

| Acronym | Course / Vertical |
|---------|------------------------------------|
| BS | Basic Science Course |
| BL | Basic Science Laboratory |
| ES | Engineering Science Course |
| EL | Engineering Science Laboratory |
| PC | Program Course |
| PL | Program Laboratory |
| PE | Program Elective Course |
| M | Multidisciplinary Minor Course |
| ML | Multidisciplinary Minor Laboratory |
| OE | Open Elective |