

An Autonomous Institute affiliated to Visvesvaraya Technological University, Belagavi

Belawadi, Srirangapatna Taluk, Mandya – 571 477 Approved by AICTE, New Delhi | Recognized by Govt. of Karnataka

| | | | | tive from the A | | | , | | | | | | |
|-----|--------|-------------|---|--------------------|--------------------|----------------|-----------------------|--------|----------------------|--------------|--------------|----------------|----------|
| | | | III-Semester- Computer Science | ce & Engineeri | ing (Artifi | cial Intelli | gence & M | achine | Learning) | | | | |
| SI. | Course | | | TD/ | 1 | Feaching Ho | ours/Week | | | Examina | ation | | |
| No. | Area | Course Code | Course Title | PSB | Theory/ Lecture | Tutorial | Practical/ Drawing | SDA | Duration in hours | CIE Marks | SEE Marks | Total Marks | Credits |
| 1 | BS | M23BBIOK301 | Biology for Engineers | Basic Science | 1 | 0 | 0 | 0 | 03 | 50 | 50 | 100 | 1 |
| 2 | PC | M23BCS302 | Logic Design and Computer Organization | CI/CS | 3 | 0 | 0 | 0 | 03 | 50 | 50 | 100 | 3 |
| 3 | IPC | M23BCS303 | Operating System | CI/CS | 3 | 0 | 2 | 0 | 03 | 50 | 50 | 100 | 4 |
| 4 | PC | M23BCS304 | Data Structures and Applications | CI/CS | 2 | 2 | 0 | 0 | 03 | 50 | 50 | 100 | 3 |
| 5 | PC | M23BCS305 | Software Engineering | CI/CS | 2 | 2 | 0 | 0 | 03 | 50 | 50 | 100 | 3 |
| 6 | ES | M23BCS306X | Engineering Science Course (Choices listed in the table below). | CI/CS | 3 | 0 | 0 | 0 | 03 | 50 | 50 | 100 | 3 |
| 7 | PCL | M23BCSL307 | Data Structures Lab | CI/CS | 0 | 0 | 2 | 0 | 03 | 50 | 50 | 100 | 1 |
| 8 | AE | M23BSCK308 | Social Connect and Responsibility | Any Department | 0 | 0 | 2 | 0 | 01 | 100 | - | 100 | 1 |
| | AE-III | M23BCS309X | Ability Enhancement Course-III (Choices listed in the table | Respective | 1 If | f the course 0 | e is Theory 0 | 0 | 01 | 50 | 50 | 100 | 1 |
| 9 | AE-III | M25BC5509X | (Choices listed in the table below) | Department | | | s Laboratory | | 02 | 50 | 50 | 100 | 1 |
| | | | 0010W) | | 0 | 0 | 2 | 0 | 02 | | | | <u> </u> |
| | | M23BNSK310 | National Service Scheme (NSS) | NSS coordinator | | | | | | | | | |
| 10 | NCMC | M23BPEK310 | Physical Education (PE) (Sports and Athletics) | PE Director | 0 | 0 | 2 | 0 | - | 100 | - | 100 | 0 |
| | | M23BYOK310 | Yoga | Yoga Teacher | | | | | | | | | |
| 11 | BS | M23BDIPM311 | Diploma Mathematics-I | Basic Science | 2 | 0 | 0 | 0 | 00 | 50 | 00 | 50 | 0 |
| | • | • | • | • | • | • | • | | Total | 600 | 400 | 1000 | 20/20 |



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HUSTTUTE OF TREMOGRA

Ref: MITM/CI/Scheme/2023-24/001

The total number of Credits for CSE, CV, ECE, and ME is 20 since they will be studying Mathematics III with 3 credits.
The total number of Credits for ISE, DS, BS, AI, AI&ML, IC, and CE is 22 since they will be studying Biology for Engineers with 1 credit.

PC: Professional Core Course, PCL: Professional Core Course laboratory, NCMC: Non-Credit Mandatory Course, AE: Ability Enhancement Course, L: Lecture, T: Tutorial, P: Practical S=SDA: Skill Development Activity, CIE: Continuous Internal Evaluation, SEE: Semester End Evaluation. ES: Engineering Science Course, ETC: Emerging Technology Courses, PLC-Programming Language Course, K :This letter in the course code indicates common to all the stream of engineering

| Ī | Engineeri | ing Science Course (ESC/ETC/PLC)[L-T-P::3-0-0] | | Ability Enhancement Course – III |
|---|------------|--|------------|--|
| Ī | Code | Title | Code | Title |
| | M23BCS306A | UNIX and Shell Programming | M23BCS309A | Data Visualization with Python. |
| | M23BCS306B | OOPS with JAVA | M23BCS309B | PHP Programming |
| | M23BCS306C | OOPS with C++ | M23BCS309C | Project Management with Report Writing |
| | M23BCS306D | Data Analytics with R | M23BCS309D | Data Analytics with Excel |

Professional Core Course (IPC): Refers to Professional Core Course Theory Integrated with practical's of the same course. Credit for IPC can be 04 and its Teaching– Learning hours (L : T : P) can be considered as (3 : 0 : 2) or (2 : 2 : 2). The theory part of the IPC shall be evaluated both by CIE and SEE. The practical part shall be evaluated by only CIE (no SEE). However, questions from the practical part of IPC shall be included in the SEE question paper.

National Service Scheme /Physical Education/Yoga: All students have to register for any one of the courses namely National Service Scheme (NSS), Physical Education (PE)(Sports and Athletics), and Yoga(YOG) with the concerned coordinator of the course during the first week of III semesters. Activities shall be carried out between III semester to the VI semester (for 4 semesters). Successful completion of the registered course and requisite CIE score is mandatory for the award of the degree. The events shall be appropriately scheduled by the colleges and the same shall be reflected in the calendar prepared for the NSS, PE, and Yoga activities. These courses shall not be considered for vertical progression as well as for the calculation of SGPA and CGPA, but completion of the course is mandatory for the award of degree.



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| | | | Scheme of Te | aching and Exa (Effective fror | | | | ne-2023) | | | | | |
|-----|--------|-------------|--|-----------------------------------|--------------------|-------------------|-----------------------|----------|----------------------|--------------|--------------|----------------|---------|
| | | | IV-Semester- Computer S | cience & Engi | neering (A | rtificial In | telligence & | Machin | e Learning) | | | | |
| SI. | Course | | | TD/ | | Teaching H | ours/Week | | | Examin | ation | | |
| No. | Area | Course Code | Course Title | PSB | Theory/ Lecture | Tutorial | Practical/ Drawing | SDA | Duration in hours | CIE Marks | SEE Marks | Total Marks | Credits |
| 1 | BS | M23BMAT401 | Mathematics – III | Basic Science | 2 | 2 | 0 | 0 | 03 | 50 | 50 | 100 | 3 |
| 2 | PC | M23BCS402 | Analysis & Design of Algorithms | CI/CS | 2 | 2 | 0 | 0 | 03 | 50 | 50 | 100 | 3 |
| 3 | PC | M23BCS403 | Microcontroller | CI/CS | 2 | 2 | 0 | 0 | 03 | 50 | 50 | 100 | 3 |
| 4 | IPC | M23BCS404 | Database Management Systems | CI/CS | 3 | 0 | 2 | 0 | 03 | 50 | 50 | 100 | 4 |
| 5 | PC | M23BCS405 | -Introduction to Artificial Intelligence | CI/CS | 2 | 2 | 0 | 0 | 03 | 50 | 50 | 100 | 3 |
| 6 | PCL | M23BCSL406 | Analysis & Design of Algorithms Lab | CI/CS | 0 | 0 | 2 | 0 | 03 | 50 | 50 | 100 | 1 |
| 7 | ES | M23BCS407x | Engineering Science Course (Choices listed in the table below). | CI/CS | 3 | 0 | 0 | 0 | 03 | 50 | 50 | 100 | 3 |
| | | | | | | If the course | e is Theory | | 01 | | | | |
| | | | Ability Enhancement | Respective | 1 | 0 | 0 | 0 | 01 | | | | |
| 8 | AE-IV | M23BCS408x | Course-IV (Choices listed in the table below) | Department | 0 | f the course is 0 | s Laboratory 2 | 0 | 02 | 50 | 50 | 100 | 1 |
| 9 | AE | M23BUHK409 | Universal human values course | Any Department | 0 | 0 | 2 | 0 | 01 | 50 | 50 | 100 | 1 |
| | | M23BNSK410 | National Service Scheme (NSS) | NSS coordinator | | | | | | | | | |
| 10 | NCMC | M23BPEK410 | Physical Education (PE) (Sports and Athletics) | PE Director | 0 | 0 | 2 | 0 | - | 100 | - | 100 | 0 |
| | | M23BYOK410 | Yoga | Yoga Teacher | | | | | | | | | |
| 11 | BS | M23BDIPM411 | Diploma Mathematics-2 | Basic Science | 2 | 0 | 0 | 0 | 00 | 50 | 00 | 50 | 0 |



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| versity, Belagavi | |
|-------------------|--|
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Notes:

Total 550 450 1000 22/22

1. The total number of Credits for ISE, DS, BS, AI, AI&ML, IC, and CE is 22 since they will be studying Mathematics III with 3 credits.

2. The total number of Credits for CSE, CV, ECE, and ME is 20 since they will be studying Biology for Engineers with 1 credit.

PC: Professional Core Course, PCL: Professional Core Course laboratory, NCMC: Non-Credit Mandatory Course, AE: Ability Enhancement Course, L: Lecture, T: Tutorial, P: Practical S= SDA: Skill Development Activity, CIE: Continuous Internal Evaluation, SEE: Semester End Evaluation. ES: Engineering Science Course, ETC: Emerging Technology Courses, PLC-Programming Language Course, K :This letter in the course code indicates common to all the stream of engineering

| Engi | neering Science Course (ESC/ETC/PLC)[L-T-P::3-0-0] | | Ability Enhancement Course – IV |
|------------|--|------------|---------------------------------|
| Code | Title | Code | Title |
| M23BCS407A | Graph Theory | M23BCS408A | Scala. |
| M23BCS407B | Linear Algebra | M23BCS408B | MongoDB |
| M23BCS407C | Statistical and Numerical Methods | M23BCS408C | UI/UX Lab |
| M23BCS407D | Vector Space & Metric Space | M23BCS408D | Hands on IoT |

Professional Core Course (IPC): Refers to Professional Core Course Theory Integrated with practical's of the same course. Credit for IPC can be 04 and its Teaching– Learning hours (L : T : P) can be considered as (3 : 0 : 2) or (2 : 2 : 2). The theory part of the IPC shall be evaluated both by CIE and SEE. The practical part shall be evaluated by only CIE (no SEE). However, questions from the practical part of IPC shall be included in the SEE question paper.

National Service Scheme /Physical Education/Yoga: All students have to register for any one of the courses namely National Service Scheme (NSS), Physical Education (PE)(Sports and Athletics), and Yoga(YOG) with the concerned coordinator of the course during the first week of III semesters. Activities shall be carried out between III semester to the VI semester (for 4 semesters). Successful completion of the registered course and requisite CIE score is mandatory for the award of the degree. The events shall be appropriately scheduled by the colleges and the same shall be reflected in the calendar prepared for the NSS, PE, and Yoga activities. These courses shall not be considered for vertical progression as well as for the calculation of SGPA and CGPA, but completion of the course is mandatory for the award of degree.



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| | | | V-Semester- Compu | ter Science & Eng | gineering (| Artificial In | telligence & | z Machi | ne Learning | () | | | |
|------------|--------|-------------------|--|--------------------------|--------------------|--------------------|-----------------------|-----------|----------------------|--------------|--------------|----------------|--------|
| SI. | Course | | | TD/ | ſ | Feaching Ho | urs/Week | | | Examir | ation | | |
| 51. No. | Area | Course Code | Course Title | PSB | Theory/ Lecture | Tutorial | Practical/ Drawing | SDA | Duration in hours | CIE Marks | SEE Marks | Total Marks | Credit |
| 1 | PC | M23BCI501 | Machine Learning | CI/CS | 3 | 0 | 0 | 0 | 03 | 50 | 50 | 100 | 3 |
| 2 | IPC | M23BCS502 | Computer Networks and Security | CI/CS | 2 | 2 | 2 | 0 | 03 | 50 | 50 | 100 | 4 |
| 3 | PC | M23BCI503 | Data Science | CI/CS | 4 | 0 | 0 | 0 | 03 | 50 | 50 | 100 | 4 |
| 4 | PCL | M23BCIL504 | Machine Learning Lab | CI/CS | 0 | 0 | 2 | 0 | 03 | 50 | 50 | 100 | 1 |
| 5 | PE | M23BCI505x | Professional Elective -I | CI/CS | 3 | 0 | 0 | 0 | 03 | 50 | 50 | 100 | 3 |
| 6 | PW | M23BCI506 | Mini Project Work | CI/CS | 0 | 0 | 4 | 0 | 03 | 100 | - | 100 | 2 |
| 7 | AE | M23BRMK507 | Research Methodology and IPR | Respective Department | 2 | 2 | 0 | 0 | 02 | 50 | 50 | 100 | 3 |
| 8 | BS | M23BESK508 | Environmental Studies | CV/ENV/CHE | 2 | 0 | 0 | 0 | 02 | 50 | 50 | 100 | 2 |
| | | M23BNSK509 | National Service Scheme (NSS) | NSS coordinator | | | | | | | | | |
| 9 | NCMC | M23BPEK509 | Physical Education (PE) (Sports and Athletics) | PE Director | 0 | 0 | 2 | 0 | - | 100 | - | 100 | 0 |
| | | M23BYOK509 | Yoga | Yoga Teacher | | | | | | | | | |
| | | | | D | ofessional | Flooting T | | | Total | 500 | 300 | 800 | 22 |
| ſ | ode | | Title | Pro | Diessional | Code | | | | Title | | | |
| | CI505A | Knowledge Represe | entation and Reasoning | 2 | N | 123BCI505C | Probabil | ity and S | Statistics for | | | | |
| | CS505B | Cloud Computing | | <i>,</i> | | 23BCS505I | | | | | | | |



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Technology Courses, PLC-Programming Language Course, **K** : This letter in the course code indicates common to all the stream of engineering

Professional Core Course (IPC): Refers to Professional Core Course Theory Integrated with practical's of the same course. Credit for IPC can be 04 and its Teaching– Learning hours (L : T : P) can be considered as (3 : 0 : 2) or (2 : 2 : 2). The theory part of the IPC shall be evaluated both by CIE and SEE. The practical part shall be evaluated by only CIE (no SEE). However, questions from the practical part of IPC shall be included in the SEE question paper.

National Service Scheme /Physical Education/Yoga: All students have to register for any one of the courses namely National Service Scheme (NSS), Physical Education (PE)(Sports and Athletics), and Yoga(YOG) with the concerned coordinator of the course during the first week of III semesters. Activities shall be carried out between III semester to the VI semester (for 4 semesters). Successful completion of the registered course and requisite CIE score is mandatory for the award of the degree. The events shall be appropriately scheduled by the colleges and the same shall be reflected in the calendar prepared for the NSS, PE, and Yoga activities. These courses shall not be considered for vertical progression as well as for the calculation of SGPA and CGPA, but completion of the course is mandatory for the award of degree.

Mini-project work: Mini Project is a laboratory-oriented/hands on course that will provide a platform to students to enhance their practical knowledge and skills by the development of small systems/applications etc. Based on the ability/abilities of the student/s and recommendations of the mentor, a single discipline or a multidisciplinary Mini- project can be assigned to an individual student or to a group having not more than 4 students.

CIE procedure for Mini-project: (i) Single discipline: The CIE marks shall be awarded by a committee consisting of the Head of the concerned Department and two faculty members of the Department, one of them being the Guide. The CIE marks awarded for the Mini-project work shall be based on the evaluation of the project report, project presentation skill, and question and answer session in the ratio of 50:25:25. The marks awarded for the project report shall be the same for all the batches mates.

(ii) Interdisciplinary: Continuous Internal Evaluation shall be group-wise at the college level with the participation of all the guides of the project.

The CIE marks awarded for the Mini-project, shall be based on the evaluation of the project report, project presentation skill, and question and answer session in the ratio 50:25:25. The marks awarded for the project report shall be the same for all the batch mates. **No SEE component for Mini-Project.**

Professional Elective Courses (PEC): A professional elective (PEC) course is intended to enhance the depth and breadth of educational experience in the Engineering and Technology curriculum. Multidisciplinary courses that are added supplement the latest trend and advanced technology in the selected stream of engineering. Each group will provide an option to select one course. The minimum number of students' strengths for offering a professional elective is 10. However, this conditional shall not be applicable to cases where the admission to the program is less than 10.



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| | | | Scheme of Tea | ching and Exa (Effective from | | | | heme-20 | 023) | | | | |
|-----|--------|-------------|--|----------------------------------|--------------------|-------------------|-----------------------|---------|----------------------|--------------|--------------|----------------|---------|
| | | | VI-Semester- Computer | Science & En | gineering | (Artificial I | ntelligence & | k Machi | ine Learning | g) | | | |
| Sl. | Course | | | TD/ | ſ | Feaching H | ours/Week | | | Examin | ation | | |
| No. | Area | Course Code | Course Title | PSB | Theory/ Lecture | Tutorial | Practical/ Drawing | SDA | Duration in hours | CIE Marks | SEE Marks | Total Marks | Credits |
| 1 | IPC | M23BCI601 | Advanced Machine Learning | CI/CS | 2 | 2 | 2 | 0 | 03 | 50 | 50 | 100 | 4 |
| 2 | PC | M23BCI602 | Robotic Process Automation | CI/CS | 3 | 2 | 0 | 0 | 03 | 50 | 50 | 100 | 4 |
| 3 | PE | M23BCI603x | Professional Elective -II | CI/CS | 3 | 0 | 0 | 0 | 03 | 50 | 50 | 100 | 3 |
| 4 | OE | M23BCS604x | Open Elective -I | CI/CS | 3 | 0 | 0 | 0 | 03 | 50 | 50 | 100 | 3 |
| 5 | PW | M23BCI605 | Major Project Phase - I | CI/CS | 0 | 0 | 4 | 0 | 03 | 100 | - | 100 | 2 |
| 6 | PCL | M23BCIL606 | Robotic Process Automation Lab | CI/CS | 0 | 0 | 2 | 0 | 03 | 50 | 50 | 100 | 1 |
| | | | | | - | If the course | | 1 | | | | | |
| 7 | AE-V | M23BCI607x | | Respective | 1 | 0 | 0 | 0 | 01 | 50 | 50 | 100 | 1 |
| | | | | Department | 0 | the course is | s Laboratory | 0 | | | | | |
| | | M23BNSK608 | National Service Scheme (NSS) | NSS coordinator | 0 | 0 | 2 | 0 | | | | | |
| 8 | NCMC | M23BPEK608 | Physical Education (PE) (Sports and Athletics) | PE Director | 0 | 0 | 2 | 0 | - | 100 | - | 100 | 0 |
| | | M23BYOK608 | Yoga | Yoga Teacher | | | | | | | | | |
| | | | | | | | | | Total | 500 | 300 | 800 | 18 |

PC: Professional Core Course, PCL: Professional Core Course laboratory, NCMC: Non-Credit Mandatory Course, AE: Ability Enhancement Course, L: Lecture, T: Tutorial, P: Practical S= SDA: Skill Development Activity, CIE: Continuous Internal Evaluation, SEE: Semester End Evaluation. ES: Engineering Science Course, ETC: Emerging



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| Technology Cou | rses, PLC-Programming Language Course | e, K : This letter in | the course code indicates common to all | the stream of engi | neering |
|----------------|---------------------------------------|------------------------------|---|--------------------|--|
| I | Professional Elective -II | | Open Elective - I | Α | bility Enhancement - V |
| Code | Title | Code | Title | Code | Title |
| M23BCS603A | Blockchain Technology | M23BCI604A | Programming in JAVA | M23BCI607A | Tensorflow & Python for Deep Learning |
| M23BCI603B | Generative AI | M23BCI604B | Introduction to Data Structure | M23BCS607B | DevOps |
| M23BCI603C | Big Data Analytics | M23BCI604C | Introduction to DBMS | M23BCI607C | Project Management with Git |
| M23BCS603D | Social Network Analysis | M23BCI604D | Introduction to Operating System | M23BCS607D | NodeJS |

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Professional Elective Courses (PEC): A professional elective (PEC) course is intended to enhance the depth and breadth of educational experience in the Engineering and Technology curriculum. Multidisciplinary courses that are added supplement the latest trend and advanced technology in the selected stream of engineering. Each group will provide an option to select one course. The minimum number of students' strengths for offering a professional elective is 10. However, this conditional shall not be applicable to cases where the admission to the program is less than 10.

Open Elective Courses: Students belonging to a particular stream of Engineering and Technology are not entitled to the open electives offered by their parent Department. However, they can opt for an elective offered by other Departments, provided they satisfy the prerequisite condition if any. Registration to open electives shall be documented under the guidance of the Program Coordinator/ Advisor/Mentor. The minimum numbers of students' strength for offering Open Elective Course is 10. However, this condition shall not be applicable to class where the admission to the program is less than 10.

Project Phase-I : Students have to discuss with the mentor /guide and with their help he/she has to complete the literature survey and prepare the report and finally define the problem statement for the project work.



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| | | | Scheme of Teachin (Ef | - | | for BE (Auto demic Year 2 | | neme-20 |)23) | | | | |
|----------|--------------------|----------------------|---|-------------|--------------------|------------------------------|-----------------------|----------|----------------------|--------------|--------------|----------------|------------|
| | | V | /II-Semester- Computer Sc | eience & E | Engineering | (Artificial I | ntelligence 8 | k Machi | ine Learning | g) | | | |
| SI. | Course | | | TD/ | , | Teaching Ho | urs/Week | | | Examir | ation | | |
| No. | Area | Course Code | Course Title | PSB | Theory/ Lecture | Tutorial | Practical/ Drawing | SDA | Duration in hours | CIE Marks | SEE Marks | Total Marks | Credits |
| 1 | MS | M23BCS701 | Management and Entrepreneurship | CI/CS | 3 | 0 | 0 | 0 | 03 | 50 | 50 | 100 | 3 |
| 2 | IPC | M23BCS702 | Natural Language Processing | CI/CS | 3 | 0 | 2 | 0 | 03 | 50 | 50 | 100 | 4 |
| 3 | PC | M23BCI703 | Deep Learning | CI/CS | 4 | 0 | 0 | 0 | 03 | 50 | 50 | 100 | 4 |
| 4 | PE | M23BCI704x | Professional Elective -III | CI/CS | 3 | 0 | 0 | 0 | 03 | 50 | 50 | 100 | 3 |
| 5 | PE | M23BCI705x | Professional Elective -IV | | 3 | 0 | 0 | 0 | 03 | 50 | 50 | 100 | 3 |
| 6 | PCL | M23BCIL706 | Deep Learning Lab | CI/CS | 0 | 0 | 2 | 0 | 03 | 50 | 50 | 100 | 1 |
| 7 | PW | M23BCI707 | Major Project Phase - II | CI/CS | 0 | 0 | 10 | 0 | 03 | 100 | 100 | 200 | 5 |
| | | - | ent Activity, CIE: Continuo ng Language Course | ous Interna | ll Evaluation | n, SEE: Seme | ester End Eva | aluation | . ES: Engine | ering Scie | ence Cour | se, ETC: | Emerging |
| | | Professio | nal Elective - III | | | | | Profe | essional Elec | tive - IV | | | |
| Co | de | | Title | | | Code | | | | Title | | | |
| M23BC | I704A A | AI of Things | | | M | 123BCS705A | Quantum | ı Comp | uting | | | | |
| M23BC | S704B I | Ethical Hacking | | | M | 123BCI705B | Angular | JS | | | | | |
| M23BC | I704C I | Data Engineering & | & MLOps | | M | 123BCS705C | Business | Intellig | ence and An | alytics | | | |
| M23BC | S704D U | User Interface Desi | gn | | M | 123BCI705D | Software | Testing | 5 | | | | |
| Professi | ional Core | Course (IPC): Re | efers to Professional Core C | ourse The | ory Integrat | ed with pract | tical's of the | same c | ourse. Credit | t for IPC | can be 04 | and its T | eaching- |
| | | , | nsidered as $(3:0:2)$ or $(2$ | , | | | | | • | E and SEI | E. The pra | actical par | t shall be |
| evaluate | d by only (| CIE (no SEE). How | wever, questions from the pra | actical par | t of IPC sha | ll be included | in the SEE q | juestion | paper. | | | | |
| Profess | ional Elect | ive Courses (PEC |): A professional elective (P | EC) cours | e is intende | d to enhance | the depth and | d breadt | h of education | onal exper | ience in t | he Engine | ering and |
| Technol | ogy curricu | ılum. Multidisciplir | nary courses that are added s | upplement | t the latest tr | end and adva | nced technol | ogy in t | he selected s | tream of e | ngineerin | g. Each g | group will |



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provide an option to select one course. The minimum number of students' strengths for offering a professional elective is 10. However, this conditional shall not be applicable to cases where the admission to the program is less than 10.

Open Elective Courses: Students belonging to a particular stream of Engineering and Technology are not entitled to the open electives offered by their parent Department. However, they can opt for an elective offered by other Departments, provided they satisfy the prerequisite condition if any. Registration to open electives shall be documented under the guidance of the Program Coordinator/ Advisor/Mentor. The minimum numbers of students' strength for offering Open Elective Course is 10. However, this condition shall not be applicable to class where the admission to the program is less than 10.

Major Project Phase - II :

CIE procedure for Project Work:

(1) Single discipline: The CIE marks shall be awarded by a committee consisting of the Head of the concerned Department and two senior faculty members of the Department, one of whom shall be the Guide.

The CIE marks awarded for the project work, shall be based on the evaluation of the project work Report, project presentation skill, and question and answer session in the ratio 50:25:25. The marks awarded for the project report shall be the same for all the batch mates.

(2) Interdisciplinary: Continuous Internal Evaluation shall be group-wise at the college level with the participation of all guides of the college. Participation of external guide/s, if any, is desirable. The CIE marks awarded for the project work, shall be based on the evaluation of project work Report, project presentation skill, and question and answer session in the ratio 50:25:25. The marks awarded for the project report shall be the same for all the batch mates.

SEE procedure for Project Work: SEE for project work will be conducted by the two examiners appointed by the University. The SEE marks awarded for the project work shall be based on the evaluation of project work Report, project presentation skill, and question and answer session in the ratio 50:25:25.



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MYSORE MYSORE

Ref: MITM/CI/Scheme/2023-24/001

| | | | | ` | | demic Year 2 | , | | | | | | |
|---|--|--|---|---------------|--------------------------------|--|-----------------------|--|---|--|--------------------------------|----------------|----------|
| | | | VIII-Semester- Computer | r Science & l | Engineerin | g (Artificial I | ntelligence & | & Mach | ine Learnin | g) | | | |
| SI. | Course | | | TD/ | | Teaching Ho | urs/Week | | | Examir | ation | | |
| No. | Area | Course Code | Course Title | PSB | Theory/ Lecture | Tutorial | Practical/ Drawing | SDA | Duration in hours | CIE Marks | SEE Marks | Total Marks | Credits |
| 1 | OE | M23BCS801x | Open Elective -II | CI/CS | 3 | 0 | 0 | 0 | 03 | 50 | 50 | 100 | 3 |
| 2 | OE | M23BCS802x | Open Elective -III | | 3 | 0 | 0 | 0 | 03 | 50 | 50 | 100 | 3 |
| 3 | SR | M23BCI803 | Technical Seminar | CI/CS | 0 | 0 | 2 | 0 | 03 | 100 | - | 100 | 1 |
| 4 | INT | M23BCI804 | Internship | CI/CS | 0 | 0 | 16 | 0 | 03 | 100 | - | 100 | 08 |
| | - | | | | | | | | | | | | |
| | | | | | | | | | Total | 200 | 200 | 400 | 15 |
| PC: Pr | ofessional (| Core Course, PCL: | Professional Core Course | laboratory, N | CMC: Non | -Credit Manda | tory Course, | AE: Ab | | | | | - |
| | | | Professional Core Course nent Activity, CIE : Contin | • | | | • | | oility Enhanc | ement Co | urse, L: L | ecture, T: | Tutorial |
| P: Prac | tical S= SI | DA: Skill Developn | nent Activity, CIE: Contin | nuous Interna | l Evaluatio | | • | | oility Enhanc | ement Co | urse, L: L | ecture, T: | Tutorial |
| P: Prac | tical S= SI | DA: Skill Developn es, PLC-Programin | nent Activity, CIE : Contin g Language Course, SR : T | nuous Interna | l Evaluatio | | ester End Eva | luation. | vility Enhanc ES: Engine | ement Co ering Scie | urse, L: L ence Cour | ecture, T: | Tutorial |
| P: Prac | tical S= SI logy Cours | DA: Skill Developn es, PLC-Programin | nent Activity, CIE : Contin g Language Course, SR : T e – II (Online Courses) | nuous Interna | l Evaluatio | n, SEE: Seme | ester End Eva | luation. | oility Enhanc | ement Co ering Scie | urse, L: L ence Cour | ecture, T: | Tutorial |
| P: Prac | tical S= SI | DA: Skill Developn es, PLC-Programin | nent Activity, CIE : Contin g Language Course, SR : T | nuous Interna | l Evaluatio | | ester End Eva | luation. | vility Enhanc ES: Engine | ement Co ering Scie | urse, L: L ence Cour | ecture, T: | Tutoria |
| P: Prac Techno Co | tical S= SI logy Cours | DA: Skill Developn es, PLC-Programin | nent Activity, CIE : Contin g Language Course, SR : T e – II (Online Courses) Title | nuous Interna | l Evaluatio | n, SEE: Seme | ester End Eva | lluation. en Elect | ility Enhanc ES: Engine ive – III (Or | ement Co ering Scie | urse, L: L ence Cour | ecture, T: | Tutoria |
| P: Prac Techno Co M23B0 | tical S= SI logy Cours ode | DA: Skill Developm es, PLC-Programin Open Elective | nent Activity, CIE : Contin g Language Course, SR : T e – II (Online Courses) Title | nuous Interna | I Evaluatio inar | n, SEE: Seme | Ope | luation. en Elect Learnin | ility Enhanc ES: Engine ive – III (Or | ement Co ering Scie | urse, L: L ence Cour | ecture, T: | Tutoria |
| P: Prac Techno Co M23B0 M23B0 | tical S= SI logy Cours ode CS801A | DA: Skill Developn es, PLC-Programin Open Elective Introduction to AI | nent Activity, CIE : Contin g Language Course, SR : T e – II (Online Courses) Title gData | nuous Interna | Il Evaluatio inar N N | n, SEE : Seme Code 123BCS802A | Ope | luation. en Elect Learnin tion to A | ility Enhanc ES: Engine ive – III (Or ng | ement Co ering Scie nline Cou Title | urse, L: L ence Cour | ecture, T: | Tutorial |

Professional Core Course (IPC): Refers to Professional Core Course Theory Integrated with practical's of the same course. Credit for IPC can be 04 and its Teaching– Learning hours (L : T : P) can be considered as (3 : 0 : 2) or (2 : 2 : 2). The theory part of the IPC shall be evaluated both by CIE and SEE. The practical part shall be evaluated by only CIE (no SEE). However, questions from the practical part of IPC shall be included in the SEE question paper.

Elucidation:

At the beginning of IV years of the program i.e., after VI semester, VII semester classwork and VIII semester **Research Internship /Industrial Internship / Rural Internship** shall be permitted to be operated simultaneously by the University so that students have ample opportunity for an internship. In other words, a good percentage of the class shall attend VII semester classwork and a similar percentage of others shall attend to Research Internship or Industrial Internship. Research/Industrial /Rural Internship shall be carried out at an Industry, NGO, MSME, Innovation centre, Incubation centre, Start-up, centre of Excellence (CoE), Study Centre established in



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the parent institute and /or at reputed research organizations/institutes.

The mandatory Research internship /Industry internship / Rural Internship is for 14 to 20 weeks. The internship shall be considered as a head of passing and shall be considered for the award of a degree. Those, who do not take up/complete the internship shall be declared to fail and shall have to complete it during the subsequent University examination after satisfying the internship requirements.

Research internship: A research internship is intended to offer the flavour of current research going on in the research field. It helps students get familiarized with the field and imparts the skill required for carrying out research.

Industry internship: Is an extended period of work experience undertaken by students to supplement their degree for professional development. It also helps them learn to overcome unexpected obstacles and successfully navigate organizations, perspectives, and cultures. Dealing with contingencies helps students recognize, appreciate, and adapt to organizational realities by tempering their knowledge with practical constraints.

Rural Internship: Rural development internship is an initiative of Unnat Bharat Abhiyan Cell, RGIT in association with AICTE to involve students of all departments studying in different academic years for exploring various opportunities in techno-social fields, to connect and work with Rural India for their upliftment.

The faculty coordinator or mentor has to monitor the student's internship progress and interact with them to guide for the successful completion of the internship. The students are permitted to carry out the internship anywhere in India or abroad. University shall not bear any expenses incurred in respect of the internship.

With the consent of the internal guide and Principal of the Institution, students shall be allowed to carry out the internship at their hometown (within or outside the state or abroad), provided favourable facilities are available for the internship and the student remains regularly in contact with the internal guide. University shall not bear any cost involved in carrying out the internship by students. However, students can receive any financial assistance extended by the organization.

Professional Elective /Open Elective Course: These are ONLINE courses suggested by the respective Board of Studies