

**Minutes of the
78th Meeting of the Academic Council
held on
12th June 2025**



Minutes of the 78th Meeting of the Academic Council

(12th June 2025 | 10.30 AM | Vellore Campus)

Members Present:

1. Dr. V.S. Kanchana Bhaaskaran, Vice-Chancellor, Chairperson
2. Dr. Partha Sharathi Mallick, Pro-Vice Chancellor
3. Shri. Jaji Vijayaraman, Entrepreneur, Chennai
4. Dr. Mangala Sunder Krishnan, IIT Madras
5. Mr. Manikandan Thangarathnam, UBER, Bangalore
6. Prof. R. Narasimhan, IISc, Bangalore
7. Dr. M. Anthony Xavior, Dean Academics, Vellore Campus
8. Dr. A. Nayeemulla Khan, Dean Academics, Chennai Campus
9. Dr. Sivabalan S, Controller of Examination
10. Dr. K. Karthikeyan, Dean, School of Advanced Sciences, Vellore Campus
11. Dr. V. Suneetha, Dean, School of Biosciences and Technology, Vellore Campus
12. Dr. M.P. Saravana Kumar, Dean, School of Civil Engineering, Vellore Campus
13. Dr. S. Velu, Dean in-charge, School of Chemical Engineering, Vellore Campus
14. Dr. N. Jaisankar, Dean in-Charge, School of Computer Science and Engineering, Vellore Campus
15. Dr. M. Kowsalya, Dean, School of Electrical Engineering, Vellore Campus
16. Dr. Jasmin Pemeena Priyadarisini, Dean, School of Electronics Engineering, Vellore Campus
17. Dr. Daphne Lopez, Dean in-charge, School of Computer Science Engineering and Information Systems, Vellore Campus
18. Dr. P. Kuppan, Dean, School of Mechanical Engineering, Vellore Campus
19. Dr. V. Selvam, Dean, School of Social Sciences and Languages, Vellore Campus
20. Dr. Mary Cherian, Dean, VIT Business School, Vellore Campus
21. Dr. Rajendran R, Dean, VIT Agricultural Innovations and Advanced Learning, Vellore Campus
22. Dr. Arun Tom Mathew, Dean, VIT School of Design & Dean in-charge, VIT School of Media, Arts and Technology, Vellore Campus
23. Dr. A. Madhumathi, Director, School of Architecture, Vellore Campus
24. Dr. Geetha Manivasagam, Dean, School of Healthcare Science and Engineering, Vellore Campus
25. Dr. C.D. Naiju, Director, Students' Welfare, Vellore Campus
26. Dr. C. Rajasekaran, Dean, Academics Research, Vellore Campus
27. Dr. V. Samuel Rajkumar, Director, Career Development Centre, Vellore Campus
28. Dr. S. Mahalakshmi, Dean, School of Advanced Sciences, Chennai Campus
29. Dr. R. Ganesan, Dean, School of Computer Sciences and Engineering, Chennai Campus
30. Dr. Senthil Kumar N, Dean, School of Electrical Engineering, Chennai Campus
31. Dr. Ravi Sankar A, Dean, School of Electronics Engineering, Chennai Campus
32. Dr. C. Rabbiraj, Dean, VIT School of Law, Chennai Campus
33. Dr. Hari Krishnan K, Dean, VIT Business School, Chennai Campus
34. Dr. S. Elavenil, Dean, School of Civil Engineering, Chennai Campus
35. Dr. S. Vijayalakshmi, Dean-in-Charge, School of Social Sciences and Languages, Chennai Campus
36. Dr. T. Palani Rajan, Dean, VIT Fashion Institute of Technology, Chennai Campus
37. Dr. V. Viswanathan, Deputy Controller of Examinations, Chennai Campus
38. Dr. Denis Ashok, Professor Higher Academic Grade, School of Mechanical Engineering, Vellore Campus

39. Dr. Janaki Meena M, Professor, School of Computer Sciences and Engineering, Chennai Campus
40. Dr. Arunachalam V, Associate Professor Senior, School of Electronics Engineering, Vellore Campus
41. Dr. Subhashini N, Associate Professor Senior, School of Electronics Engineering, Chennai Campus
42. Dr. Leema Rose Viannie, Assistant Professor Senior Grade 1, School of Advanced Sciences, Vellore Campus
43. Dr. Ganesan P, Assistant Professor Grade 2, School of Advanced Sciences, Chennai Campus
44. Dr. (Ms.) T. Jayabarathi, Registrar, Member Secretary

Leave of Absence:

1. Dr. T. Thyagarajan, Pro-Vice Chancellor
2. Prof. R. Govindarajan, IISc, Bangalore
3. Prof. R. Gnanamoorthy, IIT Madras
4. Mr. Ravishankar B, Assistant Dean, School of Hotel and Tourism Management, Vellore Campus
5. Dr. G. Sasikumar S, Director, UG&PG Admissions, Vellore Campus
6. Dr. P.C. Sabumon, Dean-in-charge, Academic Research, Chennai Campus
7. Dr. Annamalai K, Dean, School of Mechanical Engineering, Chennai Campus

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| Item 78/1 | <p>Welcome by Vice Chancellor</p> <p>Vice Chancellor welcomed all the members of the Academic Council and introduced the following new internal members to the Academic Council;</p> <ol style="list-style-type: none"> 1. Dr. S. Velu, Dean in-charge, School of Chemical Engineering, Vellore Campus 2. Dr. M. Kowsalya, Dean, School of Electrical Engineering, Vellore Campus 3. Dr. P. Kuppan, Dean, School of Mechanical Engineering, Vellore Campus 4. Dr. Mary Cherian, Dean, VIT Business School, Vellore Campus 5. Dr. Arun Tom Mathew, Dean, VIT School of Design & Dean in-charge, VIT School of Media, Arts and Technology, Vellore Campus <p>Also, shared the following achievements and milestones of VIT</p> <p>The National Board of Accreditation (NBA) has accredited the following four UG programmes for Vellore Campus and two UG programmes for Chennai Campus for the period of six years (AY 2025-26 to 2030-31, up to 30/6/2031) in Tier 1 category.</p> <p><u>Vellore Campus</u></p> <ol style="list-style-type: none"> 1. Bachelor of Technology in Chemical Engineering 2. Bachelor of Technology in Electrical and Electronics Engineering 3. Bachelor of Technology in Electronics and Instrumentation Engineering 4. Bachelor of Technology in Mechanical Engineering <p><u>Chennai Campus</u></p> <ol style="list-style-type: none"> 1. Bachelor of Technology in Electrical and Electronics Engineering 2. Bachelor of Technology in Mechanical Engineering |
|--------------|---|

Vice Chancellor extended heartfelt congratulations to the faculty and staff members for the outstanding achievement of obtaining six years of full accreditation for all six programmes submitted for review.

This remarkable accomplishment is a testament to the unwavering dedication, hard work and commitment to excellence that defines the VIT community. Securing full accreditation not only reinforces the high standards of academic quality upheld at our institution but also reflects the collaborative spirit and professionalism demonstrated across department and disciplines.

A word of appreciation was recorded by the academic council members..

Item
78/2

To consider and confirm the Minutes of the 77th meeting of the Academic Council.

The minutes of the 77th meeting of the Academic Council was confirmed.

(Annexure 1)

Item
78/3

To consider and approve the Ph.D. Regulations 2025.

(Annexure 2)

The Academic Council considered and approved the same.

Item
78/4

To consider and approve the new academic programme, curriculum, course content Programme Educational Objectives [PEOs] and Programme Outcomes [POs] of Master of Science in Artificial Intelligence and Machine Learning from the academic year 2025-26 onwards.

| Course Code | Course Title | L | T | P | C | Prerequisite |
|----------------------------------|---|---|---|----|----|--------------|
| University Core Courses | | | | | | |
| PAENG501 | Technical Report Writing | 1 | 0 | 4 | 3 | NIL |
| PASTS601 | Competitive Coding I | 3 | 0 | 0 | 3 | NIL |
| PASTS602 | Competitive Coding II | 3 | 0 | 0 | 3 | NIL |
| PASET697 | Project Work | 0 | 0 | 0 | 8 | NIL |
| PAAML698 | Internship I/ Dissertation I | 0 | 0 | 20 | 10 | NIL |
| PAAML699 | Internship II/ Dissertation II | 0 | 0 | 20 | 10 | NIL |
| Professional Core Courses | | | | | | |
| PAAML501 | Data Structures and Algorithms | 3 | 0 | 2 | 4 | NIL |
| PAAML502 | Machine Learning | 3 | 0 | 2 | 4 | NIL |
| PAAML503 | Python Programming | 3 | 0 | 2 | 4 | NIL |
| PAAML504 | Foundations of Data Science | 3 | 0 | 2 | 4 | NIL |
| PAAML505 | Generative AI and Large Language Models | 3 | 1 | 0 | 4 | NIL |
| PAAML506 | Deep Learning | 3 | 0 | 2 | 4 | NIL |
| PAMAT502 | Probability and Statistical Methods | 3 | 1 | 0 | 4 | NIL |

| Professional Elective Courses | | | | | | | |
|---|--|---|---|----|----|--------------|--|
| PAAML601 | Trustworthy AI | 3 | 1 | 0 | 4 | NIL | |
| PAAML602 | Agentic AI | 3 | 0 | 2 | 4 | NIL | |
| PAAML603 | AI in Cybersecurity | 3 | 0 | 2 | 4 | NIL | |
| PAAML604 | MLOPS and Cloud | 3 | 1 | 0 | 4 | NIL | |
| PAAML605 | Deep Reinforcement Learning | 3 | 0 | 2 | 4 | NIL | |
| PAAML606 | Big data Analytics | 3 | 1 | 0 | 4 | NIL | |
| PAAML607 | Scalable Machine Learning | 3 | 0 | 2 | 4 | NIL | |
| Open Electives | | | | | | | |
| PASTS501 | Qualitative and Quantitative Skills Practice I | 3 | 0 | 0 | 3 | NIL | |
| PASTS502 | Qualitative and Quantitative Skills Practice II | 3 | 0 | 0 | 3 | NIL | |
| (Annexure 3) | | | | | | | |
| The Academic Council considered and approved the same. | | | | | | | |
| Item 78/5 | To consider and approve the course contents for the University Core and Open Elective courses of all Master of Technology programmes. | | | | | | |
| University Core Courses | | | | | | | |
| Course Code | Course Title | L | T | P | C | Prerequisite | |
| MAENG501 | Technical Report Writing | 1 | 0 | 4 | 3 | NIL | |
| MASTS501 | Qualitative and Quantitative Skills Practice I | 3 | 0 | 0 | 3 | NIL | |
| MASTS502 | Qualitative and Quantitative Skills Practice II | 3 | 0 | 0 | 3 | NIL | |
| MASET697 | Project Work | 0 | 0 | 20 | 10 | NIL | |
| Open Electives | | | | | | | |
| MASTS601 | Competitive Coding I | 3 | 0 | 0 | 3 | NIL | |
| MASTS602 | Competitive Coding II | 3 | 0 | 0 | 3 | NIL | |
| (Annexure 4) | | | | | | | |
| The Academic Council considered and approved the same. | | | | | | | |
| Item 78/6 | To consider and approve the revised programme credit structure, curriculum, course content, Programme Educational Objectives [PEOs] and Programme Outcomes [POs] of Master of Technology in Biotechnology from the academic year 2025-26 onwards. | | | | | | |
| Course Code | Course Title | L | T | P | C | Prerequisite | |
| University Core Courses | | | | | | | |
| MABIT698 | Internship I/ Dissertation I | 0 | 0 | 20 | 10 | NIL | |
| MABIT699 | Internship II/ Dissertation II | 0 | 0 | 20 | 10 | NIL | |

| Professional Core Courses | | | | | | |
|-------------------------------|--|---|---|---|---|-----|
| MABIT501 | Advanced Biochemistry | 3 | 0 | 2 | 4 | NIL |
| MABIT502 | Advanced Microbiology | 2 | 1 | 2 | 4 | NIL |
| MABIT503 | Computational Biology | 3 | 0 | 2 | 4 | NIL |
| MABIT504 | Analytical Techniques in Biotechnology | 3 | 1 | 0 | 4 | NIL |
| MABIT505 | Bioprocess Technology | 3 | 0 | 2 | 4 | NIL |
| MABIT506 | Genetic Engineering | 3 | 0 | 2 | 4 | NIL |
| Professional Elective Courses | | | | | | |
| MABIT601 | Industrial Biotechnology | 3 | 1 | 0 | 4 | NIL |
| MABIT602 | Pharmaceutical Biotechnology | 3 | 1 | 0 | 4 | NIL |
| MABIT603 | Medical Biotechnology | 3 | 1 | 0 | 4 | NIL |
| MABIT604 | Plant Biotechnology | 3 | 1 | 0 | 4 | NIL |
| MABIT605 | Animal Biotechnology | 3 | 1 | 0 | 4 | NIL |
| MABIT606 | Genomics and Proteomics | 3 | 0 | 2 | 4 | NIL |
| MABIT607 | Cancer Biology | 3 | 1 | 0 | 4 | NIL |
| MABIT608 | Immunotechnology | 3 | 0 | 2 | 4 | NIL |
| MABIT609 | Data Science and Machine Learning for Biotechnologists | 3 | 1 | 0 | 4 | NIL |
| MABIT610 | Nanobiotechnology | 3 | 0 | 0 | 3 | NIL |
| MABIT611 | Protein Engineering and Technology | 2 | 1 | 0 | 3 | NIL |
| MABIT612 | Programing for Biologists | 2 | 0 | 2 | 3 | NIL |
| MABIT613 | Food Process Technology | 3 | 0 | 0 | 3 | NIL |
| MABIT614 | Natural Product Technology | 3 | 0 | 0 | 3 | NIL |
| MABIT615 | Environmental Biotechnology | 3 | 0 | 0 | 3 | NIL |
| MABIT616 | Aquatic Biotechnology | 3 | 0 | 0 | 3 | NIL |
| MABIT617 | Microbial Biotechnology | 3 | 0 | 0 | 3 | NIL |

(Annexure 5)

The Academic Council considered and approved the same.

Item
78/7

To consider and approve the revised programme credit structure, curriculum, course content, Programme Educational Objectives [PEOs] and Programme Outcomes [POs] of Master of Technology in Structural Engineering from the academic year 2025-26 onwards.

| Course Code | Course Title | L | T | P | C | Prerequisite |
|-------------------------------|--|---|---|----|----|--------------|
| University Core Courses | | | | | | |
| MASTE698 | Internship I/ Dissertation I | 0 | 0 | 20 | 10 | NIL |
| MASTE699 | Internship II/ Dissertation II | 0 | 0 | 20 | 10 | NIL |
| Professional Core Courses | | | | | | |
| MAMAT502 | Advanced Mathematical Methods | 3 | 1 | 0 | 4 | NIL |
| MASTE501 | Theory of Elasticity and Plasticity | 3 | 1 | 0 | 4 | NIL |
| MASTE502 | Design of Concrete Structural Systems | 3 | 1 | 0 | 4 | NIL |
| MASTE503 | Structural Dynamics | 3 | 1 | 0 | 4 | NIL |
| MASTE504 | Advanced Design of Steel Structures | 3 | 1 | 0 | 4 | NIL |
| MASTE505 | Finite Element Analysis | 3 | 0 | 2 | 4 | NIL |
| Professional Elective Courses | | | | | | |
| MASTE601 | Design of Bridges | 3 | 0 | 2 | 4 | NIL |
| MASTE602 | Advanced Concrete Materials and Technology | 3 | 0 | 2 | 4 | NIL |

| | | | | | | |
|----------|--|---|---|---|---|-----|
| MASTE603 | Offshore Structures | 3 | 0 | 2 | 4 | NIL |
| MASTE604 | Earthquake Resistant Design | 3 | 1 | 0 | 4 | NIL |
| MASTE605 | Analysis and Design of Tall Structures | 3 | 1 | 0 | 4 | NIL |
| MASTE606 | Prestressed Concrete Structures | 3 | 1 | 0 | 4 | NIL |
| MASTE607 | Matrix Methods of Structural Analysis | 3 | 1 | 0 | 4 | NIL |
| MASTE608 | Prefabricated Structures | 3 | 0 | 0 | 3 | NIL |
| MASTE609 | Stability of Structures | 3 | 0 | 0 | 3 | NIL |
| MASTE610 | Repair and Rehabilitation of Structures | 3 | 0 | 0 | 3 | NIL |
| MASTE611 | 3D Concrete Printing for Construction | 3 | 0 | 0 | 3 | NIL |
| MASTE612 | Advanced Foundation Design | 3 | 0 | 0 | 3 | NIL |
| MACTM601 | AI Enhanced structural health monitoring | 3 | 0 | 2 | 4 | NIL |
| MACTM612 | Energy Efficient Building | 3 | 0 | 0 | 3 | NIL |

(Annexure 6)

The Academic Council considered and approved the same.

Item
78/8

To consider and approve the revised programme credit structure, curriculum, course content, Programme Educational Objectives [PEOs] and Programme Outcomes [POs] of Master of Technology in Construction Technology and Management from the academic year 2025-26 onwards.

| Course Code | Course Title | L | T | P | C | Prerequisite |
|--------------------------------------|---|---|---|----|----|--------------|
| University Core Courses | | | | | | |
| MACTM698 | Internship I/ Dissertation I | 0 | 0 | 20 | 10 | NIL |
| MACTM699 | Internship II/ Dissertation II | 0 | 0 | 20 | 10 | NIL |
| Professional Core Courses | | | | | | |
| MAMAT503 | Advanced Statistical Methods | 3 | 0 | 2 | 4 | NIL |
| MACTM501 | Construction Planning, Scheduling and Control | 3 | 0 | 2 | 4 | NIL |
| MACTM502 | Construction Equipment and Methods | 3 | 1 | 0 | 4 | NIL |
| MACTM503 | Construction Economics and Finance | 3 | 1 | 0 | 4 | NIL |
| MACTM504 | Project Formulation and Appraisal | 3 | 1 | 0 | 4 | NIL |
| MACTM505 | Virtual Design for Infrastructure Systems | 3 | 0 | 2 | 4 | NIL |
| Professional Elective Courses | | | | | | |
| MACTM601 | AI Enhanced Structural Health Monitoring | 3 | 0 | 2 | 4 | NIL |
| MACTM602 | Automation in Construction | 3 | 1 | 0 | 4 | NIL |
| MACTM603 | Lean Project Delivery | 3 | 1 | 0 | 4 | NIL |
| MACTM604 | Supply Chain Management | 3 | 0 | 0 | 3 | NIL |
| MACTM605 | Estimating, Tendering and Bidding | 3 | 1 | 0 | 4 | NIL |
| MACTM606 | Safety and Quality Management in Construction | 3 | 1 | 0 | 4 | NIL |
| MACTM607 | Contract and Administration Planning | 3 | 0 | 0 | 3 | NIL |
| MACTM608 | Modern Construction Materials | 3 | 0 | 0 | 3 | NIL |
| MACTM609 | Human Resource Management | 3 | 0 | 0 | 3 | NIL |
| MACTM610 | Prefabricated and Modular Construction | 3 | 0 | 0 | 3 | NIL |
| MACTM611 | Environmental Impact Assessment | 3 | 0 | 0 | 3 | NIL |
| MACTM612 | Energy Efficient Building | 3 | 0 | 0 | 3 | NIL |

| | | | | | | |
|----------|--|---|---|---|---|-----|
| MASTE602 | Advanced Concrete Materials and Technology | 3 | 0 | 2 | 4 | NIL |
| MASTE610 | Repair and Rehabilitation of Structures | 3 | 0 | 0 | 3 | NIL |

(Annexure 7)

The Academic Council considered and approved the same.

Item 78/9

To consider and approve the revised programme credit structure, curriculum, course content, Programme Educational Objectives [PEOs] and Programme Outcomes [POs] of Master of Technology in Computer Science and Engineering from the academic year 2025-26 onwards.

| Course Code | Course Title | L | T | P | C | Prerequisite |
|--------------------------------------|--|---|---|----|----|--------------|
| University Core Courses | | | | | | |
| MACSE698 | Internship I/ Dissertation I | 0 | 0 | 20 | 10 | NIL |
| MACSE699 | Internship II/ Dissertation II | 0 | 0 | 20 | 10 | NIL |
| Professional Core Courses | | | | | | |
| MACSE501 | Data Structures and Algorithm Analysis | 3 | 0 | 2 | 4 | NIL |
| MACSE512 | Operating Systems | 3 | 0 | 2 | 4 | NIL |
| MACSE513 | Computer Networks | 3 | 0 | 2 | 4 | NIL |
| MACSE517 | Computer Architecture and Organization | 3 | 0 | 2 | 4 | NIL |
| MACSE518 | Database Modelling and Design | 3 | 0 | 2 | 4 | NIL |
| MACSE519 | Machine Learning and Applications | 3 | 0 | 2 | 4 | NIL |
| Professional Elective Courses | | | | | | |
| MACSE610 | Image and Video Analytics | 3 | 0 | 2 | 4 | NIL |
| MACSE635 | Blockchain Technology and Applications | 3 | 0 | 2 | 4 | NIL |
| MACSE636 | Cybersecurity | 3 | 0 | 0 | 3 | NIL |
| MACSE637 | Digital Forensics | 3 | 0 | 0 | 3 | NIL |
| MACSE638 | Software Engineering and Modelling | 3 | 0 | 0 | 3 | NIL |
| MACSE639 | DevOps | 3 | 0 | 2 | 4 | NIL |
| MACSE640 | Full Stack Application and Development | 3 | 0 | 2 | 4 | NIL |

(Annexure 8)

The Academic Council considered and approved the same.

Item 78/10

To consider and approve the revised programme credit structure, curriculum, course content, Programme Educational Objectives [PEOs] and Programme Outcomes [POs] of Master of Technology in Computer Science and Engineering (Artificial Intelligence and Machine Learning) from the academic year 2025-26 onwards.

| Course Code | Course Title | L | T | P | C | Prerequisite |
|----------------------------------|--|---|---|----|----|--------------|
| University Core Courses | | | | | | |
| MACSE698 | Internship I/ Dissertation I | 0 | 0 | 20 | 10 | NIL |
| MACSE699 | Internship II/ Dissertation II | 0 | 0 | 20 | 10 | NIL |
| Professional Core Courses | | | | | | |
| MACSE501 | Data Structures and Algorithm Analysis | 3 | 0 | 2 | 4 | NIL |

| | | | | | | |
|--------------------------------------|--|---|---|---|---|-----|
| MACSE512 | Operating Systems | 3 | 0 | 2 | 4 | NIL |
| MACSE513 | Computer Networks | 3 | 0 | 2 | 4 | NIL |
| MACSE517 | Computer Architecture and Organization | 3 | 0 | 2 | 4 | NIL |
| MACSE518 | Database Modelling and Design | 3 | 0 | 2 | 4 | NIL |
| MACSE519 | Machine Learning and Applications | 3 | 0 | 2 | 4 | NIL |
| Professional Elective Courses | | | | | | |
| MACSE622 | Data Engineering and Visualization | 3 | 0 | 2 | 4 | NIL |
| MACSE623 | Text and Speech Analytics | 3 | 0 | 0 | 3 | NIL |
| MACSE629 | Deep Learning and Reinforcement Learning | 3 | 0 | 2 | 4 | NIL |
| MACSE630 | Generative AI and Large Language Models | 3 | 0 | 2 | 4 | NIL |
| MACSE631 | MLOps | 3 | 0 | 2 | 4 | NIL |
| MACSE632 | Multi-Task and Meta Learning | 3 | 0 | 0 | 3 | NIL |
| MACSE633 | Graph Database and Analytics | 3 | 0 | 0 | 3 | NIL |
| MACSE634 | Responsible Artificial Intelligence | 3 | 0 | 0 | 3 | NIL |

(Annexure 9)

The Academic Council considered and approved the same.

Item
78/11

To consider and approve the revised programme credit structure, curriculum, course content, Programme Educational Objectives [PEOs] and Programme Outcomes [POs] of Master of Technology in Computer Science and Engineering (Big Data Analytics) from the academic year 2025-26 onwards.

| Course Code | Course Title | L | T | P | C | Prerequisite |
|--------------------------------------|--|---|---|----|----|--------------|
| University Core Courses | | | | | | |
| MACSE698 | Internship I/ Dissertation I | 0 | 0 | 20 | 10 | NIL |
| MACSE699 | Internship II/ Dissertation II | 0 | 0 | 20 | 10 | NIL |
| Professional Core Courses | | | | | | |
| MACSE501 | Data Structures and Algorithm Analysis | 3 | 0 | 2 | 4 | NIL |
| MACSE512 | Operating Systems | 3 | 0 | 2 | 4 | NIL |
| MACSE513 | Computer Networks | 3 | 0 | 2 | 4 | NIL |
| MACSE517 | Computer Architecture and Organization | 3 | 0 | 2 | 4 | NIL |
| MACSE518 | Database Modelling and Design | 3 | 0 | 2 | 4 | NIL |
| MACSE519 | Machine Learning and Applications | 3 | 0 | 2 | 4 | NIL |
| Professional Elective Courses | | | | | | |
| MACSE610 | Image and Video Analytics | 3 | 0 | 2 | 4 | NIL |
| MACSE622 | Data Engineering and Visualization | 3 | 0 | 2 | 4 | NIL |
| MACSE623 | Text and Speech Analytics | 3 | 0 | 0 | 3 | NIL |
| MACSE624 | Big Data Frameworks and Technologies | 3 | 0 | 2 | 4 | NIL |
| MACSE625 | Analytics for Internet of Things | 3 | 0 | 2 | 4 | NIL |
| MACSE626 | Health Informatics | 3 | 0 | 0 | 3 | NIL |
| MACSE627 | Social Network Analytics | 3 | 0 | 0 | 3 | NIL |
| MACSE628 | Data Privacy and Security | 3 | 0 | 0 | 3 | NIL |

(Annexure 10)

The Academic Council considered and approved the same.

Item
78/12

To consider and approve the revised programme credit structure, curriculum, course content, Programme Educational Objectives [PEOs] and Programme Outcomes [POs] of Master of Technology in Control and Automation from the academic year 2025-26 onwards.

| Course Code | Course Title | L | T | P | C | Prerequisite |
|--------------------------------------|---|---|---|----|----|--------------|
| University Core Courses | | | | | | |
| MACOA698 | Internship I/ Dissertation I | 0 | 0 | 20 | 10 | NIL |
| MACOA699 | Internship II/ Dissertation II | 0 | 0 | 20 | 10 | NIL |
| Professional Core Courses | | | | | | |
| MACOA501 | Modern Control Systems | 2 | 1 | 2 | 4 | NIL |
| MACOA502 | Process Dynamics and Control | 3 | 0 | 2 | 4 | NIL |
| MACOA503 | Smart Sensor Systems | 3 | 0 | 2 | 4 | NIL |
| MACOA504 | Embedded Systems Design | 3 | 0 | 2 | 4 | NIL |
| MACOA505 | Industrial Automation | 3 | 0 | 2 | 4 | NIL |
| MACOA506 | Random Variables and State Estimation | 3 | 1 | 0 | 4 | NIL |
| Professional Elective Courses | | | | | | |
| MACOA601 | Machine Learning | 3 | 0 | 2 | 4 | NIL |
| MACOA602 | Industrial Robotics | 3 | 0 | 2 | 4 | NIL |
| MACOA603 | Control of Electric Drives | 3 | 0 | 0 | 3 | NIL |
| MACOA604 | Industrial Data Networks | 3 | 0 | 0 | 3 | NIL |
| MACOA605 | Data Analytics in Automation Industries | 3 | 0 | 0 | 3 | NIL |
| MACOA606 | Optimal Control Systems | 3 | 0 | 0 | 3 | NIL |
| MACOA607 | Adaptive and Robust Control | 3 | 0 | 0 | 3 | NIL |
| MACOA608 | Internet of Things: Architecture and Design | 2 | 0 | 2 | 3 | NIL |
| MACOA609 | Digital Twin and Industrial AI | 3 | 0 | 0 | 3 | NIL |
| MACOA610 | Neural Networks and Deep Learning | 3 | 0 | 0 | 3 | NIL |
| MACOA611 | Universal Automation | 3 | 0 | 2 | 4 | NIL |
| MACOA612 | Edge AI in Industrial Automation | 3 | 0 | 2 | 4 | NIL |
| MACOA613 | Modelling and Control of UAVs | 3 | 0 | 2 | 4 | NIL |

(Annexure 11)

The Academic Council considered and approved the same.

Item
78/13

To consider and approve the revised programme credit structure, curriculum, course content, Programme Educational Objectives [PEOs] and Programme Outcomes [POs] of Master of Technology in Power Electronics and Drives from the academic year 2025-26 onwards.

| Course Code | Course Title | L | T | P | C | Prerequisite |
|----------------------------------|---|---|---|----|----|--------------|
| University Core Courses | | | | | | |
| MAPED698 | Internship I/ Dissertation I | 0 | 0 | 20 | 10 | NIL |
| MAPED699 | Internship II/ Dissertation II | 0 | 0 | 20 | 10 | NIL |
| Professional Core Courses | | | | | | |
| MAPED501 | Analysis of Power Converters | 3 | 0 | 2 | 4 | NIL |
| MAPED502 | Electric Drives and Control | 3 | 0 | 2 | 4 | NIL |
| MAPED503 | Embedded Microcontrollers and Programming | 3 | 0 | 2 | 4 | NIL |
| MAPED504 | DSP Control of Advanced Electric Drives | 3 | 0 | 2 | 4 | MAPED502 |
| MAPED505 | FPGA Programming and Applications | 3 | 0 | 2 | 4 | NIL |

| | | | | | | | |
|--------------------------------------|--|---|---|---|---|----------|--|
| | | | | | | | |
| MAPED506 | Embedded AI and Edge AI | 3 | 0 | 2 | 4 | NIL | |
| Professional Elective Courses | | | | | | | |
| MAPED601 | Advanced Semiconductor devices | 3 | 0 | 0 | 3 | NIL | |
| MAPED602 | Switched Mode Power Conversion | 3 | 0 | 0 | 3 | NIL | |
| MAPED603 | Hybrid and Electric Vehicles | 3 | 0 | 2 | 4 | NIL | |
| MAPED604 | IoT System Design | 3 | 0 | 2 | 4 | NIL | |
| MAPED605 | Machine Intelligence and Learning | 3 | 0 | 0 | 3 | NIL | |
| MAPED606 | Battery Management System | 3 | 0 | 0 | 3 | NIL | |
| MAPED607 | Model Based System Development | 3 | 0 | 2 | 4 | NIL | |
| MAPED608 | Digital Twin with AI for Power Electronics | 3 | 0 | 0 | 3 | NIL | |
| MAPED609 | Intelligent and Autonomous Vehicles | 3 | 0 | 0 | 3 | MAPED603 | |
| MAPED610 | Drones and Unmanned Aerial Vehicles | 3 | 0 | 2 | 4 | NIL | |
| MAPED611 | Smart Microgrids | 3 | 0 | 0 | 3 | NIL | |
| MAPED612 | EMI and EMC in Power Converters | 3 | 0 | 0 | 3 | NIL | |
| MAPED613 | Solar Photovoltaic Conversion System | 3 | 0 | 0 | 3 | NIL | |
| MAPED614 | Universal Automation | 3 | 0 | 2 | 4 | NIL | |

(Annexure 12)

The Academic Council considered and approved the same.

Item
78/14

To consider and approve the revised programme credit structure, curriculum, course content, Programme Educational Objectives [PEOs] and Programme Outcomes [POs] of Master of Technology in Electric Mobility from the academic year 2025-26 onwards.

| Course Code | Course Title | L | T | P | C | Prerequisite |
|--------------------------------------|---|---|---|----|----|--------------|
| University Core Courses | | | | | | |
| MAELM698 | Internship I/ Dissertation I | 0 | 0 | 20 | 10 | NIL |
| MAELM699 | Internship II/ Dissertation II | 0 | 0 | 20 | 10 | NIL |
| Professional Core Courses | | | | | | |
| MAELM501 | Electric Vehicle Technology | 3 | 1 | 0 | 4 | NIL |
| MAELM502 | Automotive Embedded Systems | 3 | 0 | 2 | 4 | NIL |
| MAELM503 | Design of Automotive Power Converters | 3 | 0 | 2 | 4 | NIL |
| MAELM504 | Electric Motor Drives | 3 | 0 | 2 | 4 | MAELM503 |
| MAELM505 | Automotive Electrical and Electronics Systems | 3 | 1 | 0 | 4 | NIL |
| MAELM506 | Charging Infrastructure for EVs | 3 | 1 | 0 | 4 | NIL |
| Professional Elective Courses | | | | | | |
| MAELM601 | Artificial Intelligence for Electric Mobility | 3 | 0 | 2 | 4 | NIL |
| MAELM602 | Automotive Noise, Vibrations and Condition Monitoring | 3 | 0 | 2 | 4 | NIL |
| MAELM603 | Electric Energy Storage Systems | 3 | 0 | 0 | 3 | NIL |
| MAELM604 | Connected and Autonomous Vehicles | 3 | 1 | 0 | 4 | NIL |
| MAELM605 | Lightweight and Sustainable Materials: E-Mobility Perspective | 3 | 0 | 0 | 3 | NIL |
| MAELM606 | Aerial Electric Vehicular Technology | 3 | 0 | 0 | 3 | NIL |
| MAELM607 | Automotive Functional Safety | 3 | 0 | 0 | 3 | NIL |

(Annexure 13)

The Academic Council considered and approved the same.

| | | | | | | | |
|---|---|--|---|---|----|----|--------------|
| Item 78/15 | To consider and approve the revised programme credit structure, curriculum, course content, Programme Educational Objectives [PEOs] and Programme Outcomes [POs] of Master of Technology in Biomedical Engineering from the academic year 2025-26 onwards. | | | | | | |
| | Course Code | Course Title | L | T | P | C | Prerequisite |
| University Core Courses | | | | | | | |
| | MABML698 | Internship I/ Dissertation I | 0 | 0 | 20 | 10 | NIL |
| | MABML699 | Internship II/ Dissertation II | 0 | 0 | 20 | 10 | NIL |
| Professional Core Courses | | | | | | | |
| | MABML501 | Sensors in Medicine and Data Acquisition | 3 | 0 | 2 | 4 | NIL |
| | MABML502 | Medical Imaging Techniques and Analysis | 3 | 0 | 2 | 4 | NIL |
| | MABML503 | Biosignal Processing and Analysis | 3 | 0 | 2 | 4 | NIL |
| | MABML504 | Biomedical Instrumentation and Measurements | 3 | 0 | 2 | 4 | NIL |
| | MABML505 | Embedded Systems for Healthcare Devices | 3 | 1 | 0 | 4 | NIL |
| | MABML506 | Artificial Intelligence for Biomedical Engineering | 3 | 0 | 2 | 4 | NIL |
| Professional Elective Courses | | | | | | | |
| | MABML601 | Biomaterials | 3 | 0 | 0 | 3 | NIL |
| | MABML602 | Biomechanics and Rehabilitation Engineering | 3 | 1 | 0 | 4 | NIL |
| | MABML603 | Medical Robotics | 3 | 0 | 2 | 4 | NIL |
| | MABML604 | Big Data Analytics in Medical Applications | 3 | 1 | 0 | 4 | NIL |
| | MABML605 | Physiological Control Systems | 3 | 0 | 2 | 4 | NIL |
| | MABML606 | Biomedical Standards | 3 | 0 | 0 | 3 | NIL |
| | MABML607 | Information Systems and Healthcare Management | 3 | 0 | 0 | 3 | NIL |
| | MABML608 | AR/VR in Healthcare | 3 | 0 | 2 | 4 | NIL |
| | MABML609 | Lab-on-Chip | 3 | 0 | 0 | 3 | NIL |
| | MAAME615 | Soft Computing Techniques | 3 | 1 | 0 | 4 | NIL |
| Bridge Courses | | | | | | | |
| | MABML507 | Anatomy and Physiology | 1 | 0 | 0 | 1 | NIL |
| | MABML508 | Basic Electronics and Measurements | 1 | 0 | 0 | 1 | NIL |
| (Annexure 14) | | | | | | | |
| The Academic Council considered and approved the same. | | | | | | | |
| Item 78/16 | To consider and approve the revised programme credit structure, curriculum, course content, Programme Educational Objectives [PEOs] and Programme Outcomes [POs] of Master of Technology in VLSI Design from the academic year 2025-26 onwards. | | | | | | |
| | Course Code | Course Title | L | T | P | C | Prerequisite |
| University Core Courses | | | | | | | |
| | MAVLD698 | Internship I/ Dissertation I | 0 | 0 | 20 | 10 | NIL |
| | MAVLD699 | Internship II/ Dissertation II | 0 | 0 | 20 | 10 | NIL |
| Professional Core Courses | | | | | | | |

| | | | | | | |
|--------------------------------------|--|---|---|---|---|----------|
| MAVLD501 | VLSI Devices and Technology | 3 | 0 | 2 | 4 | NIL |
| MAVLD502 | Digital IC Design | 3 | 1 | 0 | 4 | NIL |
| MAVLD503 | Digital System Design with FPGA | 3 | 0 | 2 | 4 | NIL |
| MAVLD504 | Analog IC Design | 3 | 0 | 2 | 4 | NIL |
| MAVLD505 | ASIC Design | 3 | 0 | 2 | 4 | NIL |
| MAVLD506 | VLSI Testing and Testability | 3 | 0 | 2 | 4 | NIL |
| Professional Elective Courses | | | | | | |
| MAVLD601 | CAD for VLSI | 3 | 1 | 0 | 4 | NIL |
| MAVLD602 | Low Power IC Design | 3 | 0 | 0 | 3 | MAVLD502 |
| MAVLD603 | VLSI Verification Methodologies | 3 | 0 | 2 | 4 | MAVLD503 |
| MAVLD604 | Mixed Signal IC Design | 3 | 0 | 0 | 3 | MAVLD504 |
| MAVLD605 | System-on-Chip Design | 3 | 1 | 0 | 4 | NIL |
| MAVLD606 | VLSI Digital Signal Processing | 3 | 0 | 0 | 3 | NIL |
| MAVLD607 | Nano Scale Devices and Circuit Design | 3 | 0 | 0 | 3 | MAVLD501 |
| MAVLD608 | Advanced Computer Architecture | 3 | 0 | 0 | 3 | NIL |
| MAVLD609 | RF IC Design | 3 | 0 | 0 | 3 | MAVLD504 |
| MAVLD610 | Neuromorphic Computing | 3 | 0 | 0 | 3 | NIL |
| MAEDS501 | Embedded System Design | 3 | 1 | 0 | 4 | NIL |
| MAEDS601 | Electromagnetic Interference and Compatibility | 3 | 0 | 0 | 3 | NIL |
| MAEDS612 | Machine Learning and Deep Learning | 3 | 1 | 0 | 4 | NIL |

(Annexure 15)

The Academic Council considered and approved the same.

Item
78/17

To consider and approve the revised programme credit structure, curriculum, course content, Programme Educational Objectives [PEOs] and Programme Outcomes [POs] of Master of Technology in Automotive Electronics from the academic year 2025-26 onwards.

| Course Code | Course Title | L | T | P | C | Prerequisite |
|--------------------------------------|--|---|---|----|----|--------------|
| University Core Courses | | | | | | |
| MAAME698 | Internship I/ Dissertation I | 0 | 0 | 20 | 10 | NIL |
| MAAME699 | Internship II/ Dissertation II | 0 | 0 | 20 | 10 | NIL |
| Professional Core Courses | | | | | | |
| MAAME501 | Sensors and Engine Management Systems | 3 | 1 | 0 | 4 | NIL |
| MAAME502 | Microcontrollers for Vehicular Systems | 3 | 0 | 2 | 4 | NIL |
| MAAME503 | Vehicle Control Systems | 3 | 1 | 0 | 4 | NIL |
| MAAME504 | Automotive Networking and Protocols | 3 | 0 | 2 | 4 | NIL |
| MAAME505 | Electric and Electronic Power Systems for Vehicles | 3 | 1 | 0 | 4 | NIL |
| MAAME506 | Automotive Power Electronics and Motor Drives | 3 | 0 | 2 | 4 | NIL |
| Professional Elective Courses | | | | | | |
| MAAME601 | Vehicular Information and Communication Systems | 3 | 0 | 0 | 3 | NIL |
| MAAME602 | Parallel Programming Using Multicores and Graphical Processing Units | 3 | 1 | 0 | 4 | NIL |
| MAAME603 | Digital Signal Processing and its Applications | 3 | 1 | 0 | 4 | NIL |

| | | | | | | |
|----------|---|---|---|---|---|-----|
| MAAME604 | Open Source Hardware and Software System Design | 3 | 0 | 0 | 3 | NIL |
| MAAME605 | Machine Vision System for Automotive | 3 | 1 | 0 | 4 | NIL |
| MAAME606 | Automotive Fault Diagnostics | 3 | 0 | 0 | 3 | NIL |
| MAAME607 | Emission Control and Diagnostics | 3 | 0 | 0 | 3 | NIL |
| MAAME608 | Vehicle Safety Systems | 3 | 0 | 0 | 3 | NIL |
| MAAME609 | Vehicle Bodies | 3 | 0 | 0 | 3 | NIL |
| MAAME610 | Engine Peripherals | 3 | 0 | 0 | 3 | NIL |
| MAAME611 | Vehicle Security and Comfort Systems | 3 | 0 | 0 | 3 | NIL |
| MAAME612 | Automotive IoT | 3 | 1 | 0 | 4 | NIL |
| MAAME613 | Alternative Drives, Traction and Controls | 3 | 0 | 0 | 3 | NIL |
| MAAME614 | AR/VR for Automotive Applications | 3 | 0 | 0 | 3 | NIL |
| MAAME615 | Soft Computing Techniques | 3 | 1 | 0 | 4 | NIL |
| MAEDS501 | Embedded System Design | 3 | 1 | 0 | 4 | NIL |
| MAEDS601 | Electromagnetic Interference and Compatibility | 3 | 0 | 0 | 3 | NIL |
| MAEDS612 | Machine Learning and Deep Learning | 3 | 1 | 0 | 4 | NIL |

(Annexure 16)

The Academic Council considered and approved the same.

Item
78/18

To consider and approve the revised programme credit structure, curriculum, course content, Programme Educational Objectives [PEOs] and Programme Outcomes [POs] of Master of Technology in Embedded Systems from the academic year 2025-26 onwards.

| Course Code | Course Title | L | T | P | C | Prerequisite |
|--------------------------------------|--|---|---|----|----|--------------|
| University Core Courses | | | | | | |
| MAEDS698 | Internship I/ Dissertation I | 0 | 0 | 20 | 10 | NIL |
| MAEDS699 | Internship II/ Dissertation II | 0 | 0 | 20 | 10 | NIL |
| Professional Core Courses | | | | | | |
| MAEDS501 | Embedded System Design | 3 | 1 | 0 | 4 | NIL |
| MAEDS502 | Microcontroller Architecture and Organization | 3 | 0 | 2 | 4 | NIL |
| MAEDS503 | Embedded Programming | 3 | 0 | 2 | 4 | NIL |
| MAEDS504 | In Vehicle Networking | 3 | 1 | 0 | 4 | NIL |
| MAEDS505 | Real Time Operating System | 3 | 0 | 2 | 4 | NIL |
| MAEDS506 | System Design using FPGA | 3 | 0 | 2 | 4 | NIL |
| Professional Elective Courses | | | | | | |
| MAEDS601 | Electromagnetic Interference and Compatibility | 3 | 0 | 0 | 3 | NIL |
| MAEDS602 | Advanced Digital Image Processing | 3 | 1 | 0 | 4 | NIL |
| MAEDS603 | Design and Analysis of Algorithms | 3 | 1 | 0 | 4 | NIL |
| MAEDS604 | Hardware Software Codesign | 3 | 0 | 0 | 3 | NIL |
| MAEDS605 | Modern Automotive Electronic Systems | 3 | 0 | 0 | 3 | NIL |
| MAEDS606 | Intelligent IoT System Design and Architecture | 3 | 1 | 0 | 4 | NIL |
| MAEDS607 | Fault Tolerance and Dependable Systems | 3 | 0 | 0 | 3 | NIL |
| MAEDS608 | Parallel Processing and Computing | 3 | 1 | 0 | 4 | NIL |
| MAEDS609 | Edge and Cloud Computing | 3 | 0 | 0 | 3 | NIL |
| MAEDS610 | Cyber Physical Systems | 3 | 1 | 0 | 4 | NIL |

| | | | | | | |
|----------|---|---|---|---|---|-----|
| MAEDS611 | 5G and Next Generation Wireless Systems for Embedded Applications | 3 | 0 | 0 | 3 | NIL |
| MAEDS612 | Machine Learning and Deep Learning | 3 | 1 | 0 | 4 | NIL |
| MAEDS613 | Wireless and Mobile Communication for Embedded Applications | 3 | 0 | 0 | 3 | NIL |
| MAVLD605 | System on Chip Design | 3 | 1 | 0 | 4 | NIL |
| MAVLD608 | Advanced Computer Architecture | 3 | 0 | 0 | 3 | NIL |

(Annexure 17)

The Academic Council considered and approved the same.

Item
78/19

To consider and approve the revised programme credit structure, curriculum, course content, Programme Educational Objectives [PEOs] and Programme Outcomes [POs] of Master of Technology in Electronics and Communication Engineering (Intelligent Communication Systems) from the academic year 2025-26 onwards.

| Course Code | Course Title | L | T | P | C | Prerequisite |
|--------------------------------------|--|---|---|----|----|--------------|
| University Core Courses | | | | | | |
| MAEIC698 | Internship I/ Dissertation I | 0 | 0 | 20 | 10 | NIL |
| MAEIC699 | Internship II/ Dissertation II | 0 | 0 | 20 | 10 | NIL |
| Professional Core Courses | | | | | | |
| MAEIC501 | Machine Learning for Communications | 3 | 0 | 2 | 4 | NIL |
| MAEIC502 | Communication Networks | 3 | 1 | 0 | 4 | NIL |
| MAEIC503 | Internet of Things | 3 | 0 | 2 | 4 | NIL |
| MAEIC504 | Multimedia Communication Systems | 3 | 1 | 0 | 4 | NIL |
| MAEIC505 | Embedded C Programming | 3 | 0 | 2 | 4 | NIL |
| MAEIC506 | Wireless Communication Technologies | 3 | 0 | 2 | 4 | NIL |
| Professional Elective Courses | | | | | | |
| MAEIC601 | 5G New Radio – Architecture and Deployment | 3 | 0 | 0 | 3 | NIL |
| MAEIC602 | Signal Processing Algorithms | 3 | 0 | 0 | 3 | NIL |
| MAEIC603 | Network Security | 3 | 0 | 2 | 4 | NIL |
| MAEIC604 | System-on-Chip using Verilog HDL | 3 | 0 | 2 | 4 | NIL |
| MAEIC605 | Wireless Sensor Networks | 3 | 0 | 0 | 3 | NIL |
| MAEIC606 | Smart Antenna | 3 | 0 | 2 | 4 | NIL |
| MAEIC607 | Optical Networks | 3 | 0 | 0 | 3 | NIL |
| MAEIC608 | Quantum Communication | 3 | 0 | 2 | 4 | NIL |
| MAEIC609 | Edge AI for Intelligent Computing | 3 | 0 | 0 | 3 | NIL |
| MAEIC610 | Soft Computing | 3 | 0 | 0 | 3 | NIL |
| MAEIC611 | Blockchain Technology | 3 | 0 | 0 | 3 | NIL |

(Annexure 18)

The Academic Council considered and approved the same.

Item
78/20

To consider and approve the revised programme credit structure, curriculum, course content, Programme Educational Objectives [PEOs] and Programme Outcomes [POs] of Master of Technology in CAD / CAM from the academic year 2025-26 onwards.

| Course Code | Course Title | L | T | P | C | Prerequisite |
|--------------------------------------|--|---|---|----|----|--------------|
| University Core Courses | | | | | | |
| MACDM698 | Internship I/ Dissertation I | 0 | 0 | 20 | 10 | NIL |
| MACDM699 | Internship II/ Dissertation II | 0 | 0 | 20 | 10 | NIL |
| Professional Core Courses | | | | | | |
| MACDM501 | Applied Mechanics of Solids | 3 | 1 | 0 | 4 | NIL |
| MACDM502 | Advanced Manufacturing Technologies | 3 | 0 | 2 | 4 | NIL |
| MACDM503 | Finite Element Methods and Applications | 3 | 0 | 2 | 4 | NIL |
| MACDM504 | Integrated Manufacturing System | 3 | 0 | 2 | 4 | NIL |
| MACDM505 | Vibration and Control | 3 | 0 | 2 | 4 | NIL |
| MACDM506 | Artificial Intelligence for Design and Manufacturing | 3 | 1 | 0 | 4 | NIL |
| Professional Elective Courses | | | | | | |
| MASMM503 | Manufacturing Control and Automation | 3 | 0 | 2 | 4 | NIL |
| MASMM506 | Design for Additive Manufacturing | 3 | 0 | 2 | 4 | NIL |
| MASMM605 | Advanced Materials Processing and Characterization | 3 | 0 | 2 | 4 | NIL |
| MACDM601 | Computer Graphics and Geometric Modelling | 3 | 0 | 2 | 4 | NIL |
| MACDM602 | Computational Fluid Dynamics | 3 | 0 | 2 | 4 | NIL |
| MACDM603 | Noise, Vibration and Harshness | 3 | 1 | 0 | 4 | NIL |
| MACDM604 | Fracture Mechanics and Fatigue | 3 | 1 | 0 | 4 | NIL |
| MACDM605 | Design for Excellence | 3 | 0 | 0 | 3 | NIL |
| MACDM606 | Design Thinking and Product Development | 3 | 0 | 0 | 3 | NIL |
| MACDM607 | Product Life Cycle Management | 3 | 0 | 0 | 3 | NIL |
| MACDM608 | Manufacturing and Mechanics of Composite Materials | 3 | 0 | 0 | 3 | NIL |
| MACDM609 | Design Optimization | 3 | 0 | 0 | 3 | NIL |
| MACDM610 | Design and Analysis of Experiments | 3 | 0 | 0 | 3 | NIL |

(Annexure 19)

The Academic Council considered and approved the same.

Item
78/21

To consider and approve the revised programme credit structure, curriculum, course content, Programme Educational Objectives [PEOs] and Programme Outcomes [POs] of Master of Technology in Applied Computational Fluid Dynamics from the academic year 2025-26 onwards.

| Course Code | Course Title | L | T | P | C | Prerequisite |
|----------------------------------|--|---|---|----|----|--------------|
| University Core Courses | | | | | | |
| MACFD698 | Internship I/ Dissertation I | 0 | 0 | 20 | 10 | NIL |
| MACFD699 | Internship II/ Dissertation II | 0 | 0 | 20 | 10 | NIL |
| Professional Core Courses | | | | | | |
| MACFD501 | Advanced Fluid Dynamics | 3 | 1 | 0 | 4 | NIL |
| MACFD502 | Advanced Heat and Mass Transfer | 3 | 0 | 2 | 4 | NIL |
| MACFD503 | Numerical Methods for Partial Differential Equations | 3 | 0 | 2 | 4 | NIL |

| | | | | | | |
|--------------------------------------|--|---|---|---|---|----------|
| MACFD504 | Machine Learning for Fluid Dynamics | 3 | 0 | 2 | 4 | MACFD501 |
| MACFD505 | Numerical Solution of the Navier-Stokes Equation | 3 | 0 | 2 | 4 | MACFD503 |
| MACFD506 | Turbulence Modelling | 3 | 0 | 2 | 4 | MACFD501 |
| Professional Elective Courses | | | | | | |
| MACFD601 | Computational Aerodynamics | 3 | 0 | 2 | 4 | NIL |
| MACFD602 | Multiphase Flows | 3 | 0 | 2 | 4 | NIL |
| MACFD603 | Finite Element Analysis of Solids and Fluids | 3 | 0 | 2 | 4 | NIL |
| MACFD604 | Experimental Methods for Fluid Flow | 3 | 0 | 2 | 4 | NIL |
| MACFD605 | High Performance Computing | 3 | 0 | 2 | 4 | NIL |
| MACFD606 | Scientific Computing | 2 | 0 | 2 | 3 | NIL |
| MACFD607 | Modelling and Simulation of Energy Systems | 3 | 0 | 0 | 3 | NIL |
| MACFD608 | Fluid Structure Interaction | 3 | 0 | 0 | 3 | NIL |
| MACFD609 | Chemically Reacting Flows | 2 | 0 | 2 | 3 | NIL |

(Annexure 20)

The Academic Council considered and approved the same.

Item
78/22

To consider and approve the revised programme credit structure, curriculum, course content, Programme Educational Objectives [PEOs] and Programme Outcomes [POs] of Master of Technology in Mechatronics from the academic year 2025-26 onwards.

| Course Code | Course Title | L | T | P | C | Prerequisite |
|--------------------------------------|---|---|---|----|----|--------------|
| University Core Courses | | | | | | |
| MAMHA698 | Internship I/ Dissertation I | 0 | 0 | 20 | 10 | NIL |
| MAMHA699 | Internship II/ Dissertation II | 0 | 0 | 20 | 10 | NIL |
| Professional Core Courses | | | | | | |
| MAMHA501 | Advanced Sensing and Actuation Technologies | 3 | 0 | 2 | 4 | NIL |
| MAMHA502 | Systems Modelling and Control | 3 | 0 | 2 | 4 | NIL |
| MAMHA503 | Robotics and Motion Control | 3 | 0 | 2 | 4 | NIL |
| MAMHA504 | Embedded Systems and Interfacing | 3 | 0 | 2 | 4 | NIL |
| MAMHA505 | Industrial Automation | 3 | 0 | 2 | 4 | NIL |
| MAMHA506 | Artificial Intelligence for Mechatronics | 3 | 1 | 0 | 4 | NIL |
| Professional Elective Courses | | | | | | |
| MASMB502 | Electric and Hybrid Vehicle Systems | 3 | 0 | 2 | 4 | NIL |
| MAMHA601 | Machine Vision for Mechatronics | 3 | 0 | 2 | 4 | NIL |
| MAMHA602 | Autotronics and Smart Mobility | 3 | 1 | 0 | 4 | NIL |
| MAMHA603 | Smart Manufacturing | 4 | 0 | 0 | 4 | NIL |
| MAMHA604 | Fluid Power System Design | 3 | 0 | 2 | 4 | NIL |
| MAMHA605 | Autonomous Mobile Robots | 3 | 1 | 0 | 4 | NIL |
| MAMHA606 | Fault Diagnosis and Signal Processing | 3 | 1 | 0 | 4 | NIL |
| MAMHA607 | Wireless Sensor Networks | 3 | 0 | 0 | 3 | NIL |
| MAMHA608 | Smart Materials for Mechatronics | 3 | 0 | 0 | 3 | NIL |
| MAMHA609 | Industrial Internet of Things | 3 | 0 | 0 | 3 | NIL |

| | | | | | | |
|----------|--|---|---|---|---|-----|
| MAMHA610 | Virtual and Augmented Reality Technologies | 3 | 0 | 0 | 3 | NIL |
| MAMHA611 | Robust Mechatronics Systems | 3 | 0 | 0 | 3 | NIL |
| MAMHA612 | Assistive Robotics | 3 | 0 | 0 | 3 | NIL |

(Annexure 21)

The Academic Council considered and approved the same.

Item 78/23

To consider and approve the revised programme credit structure, curriculum, course content, Programme Educational Objectives [PEOs] and Programme Outcomes [POs] of Master of Technology in Smart Mobility from the academic year 2025-26 onwards.

| Course Code | Course Title | L | T | P | C | Prerequisite |
|--------------------------------------|--|---|---|----|----|--------------|
| University Core Courses | | | | | | |
| MASMB698 | Internship I/ Dissertation I | 0 | 0 | 20 | 10 | NIL |
| MASMB699 | Internship II/ Dissertation II | 0 | 0 | 20 | 10 | NIL |
| Professional Core Courses | | | | | | |
| MASMB501 | Vehicle Systems Engineering | 3 | 1 | 0 | 4 | NIL |
| MASMB502 | Electric and Hybrid Vehicle Systems | 3 | 0 | 2 | 4 | NIL |
| MASMB503 | Artificial Intelligence for Mobility | 3 | 1 | 0 | 4 | NIL |
| MASMB504 | Autonomous and Connected Vehicles | 3 | 0 | 2 | 4 | NIL |
| MASMB505 | Automotive Control Systems | 3 | 1 | 0 | 4 | NIL |
| MASMB506 | Automotive powertrain systems | 3 | 1 | 0 | 4 | NIL |
| Professional Elective Courses | | | | | | |
| MASMB601 | Vehicle Dynamics | 3 | 0 | 2 | 4 | NIL |
| MASMB602 | Vehicle Aerodynamics | 3 | 1 | 0 | 4 | NIL |
| MASMB603 | Automotive Noise, Vibration and Harshness | 3 | 1 | 0 | 4 | NIL |
| MASMB604 | Vehicle Safety Engineering | 3 | 1 | 0 | 4 | NIL |
| MASMB605 | Intelligent Transportation Systems | 3 | 1 | 0 | 4 | NIL |
| MASMB606 | Smart Convergent Technologies | 3 | 1 | 0 | 4 | NIL |
| MASMB607 | Thermal Management in Electric Vehicles | 3 | 0 | 0 | 3 | NIL |
| MASMB608 | Vehicle Testing and Certification | 3 | 0 | 0 | 3 | NIL |
| MASMB609 | Model-Based Mobility System Design | 2 | 0 | 2 | 3 | NIL |
| MASMB610 | Embedded System for Mobility | 3 | 0 | 0 | 3 | NIL |
| MASMB611 | Vehicle Diagnostics Systems | 3 | 0 | 0 | 3 | NIL |
| MASMB612 | Network and Data Communications for Smart Mobility | 3 | 0 | 0 | 3 | NIL |
| MASMB613 | Battery and Fuel Cells | 3 | 0 | 0 | 3 | NIL |

(Annexure 22)

The Academic Council considered and approved the same.

Item 78/24

To consider and approve the revised programme credit structure, curriculum, course content, Programme Educational Objectives [PEOs] and Programme Outcomes [POs] of Master of Computer Applications from the academic year 2025-26 onwards.

| Course Code | Course Title | L | T | P | C | Prerequisite |
|--------------------------------------|---|---|---|----|----|--------------|
| University Core Courses | | | | | | |
| PAENG501 | Technical Report Writing | 1 | 0 | 4 | 3 | NIL |
| PASTS601 | Competitive Coding I | 3 | 0 | 0 | 3 | NIL |
| PASTS602 | Competitive Coding II | 3 | 0 | 0 | 3 | NIL |
| PASET697 | Project Work | 0 | 0 | 16 | 8 | NIL |
| PAMCA698 | Internship I/ Dissertation I | 0 | 0 | 20 | 10 | NIL |
| PAMCA699 | Internship II/ Dissertation II | 0 | 0 | 20 | 10 | NIL |
| Professional Core Courses | | | | | | |
| PAMAT501 | Probability and Statistics | 3 | 1 | 0 | 4 | NIL |
| PAMCA501 | Data Structures and Algorithms | 3 | 0 | 2 | 4 | NIL |
| PAMCA502 | Java Programming | 3 | 0 | 2 | 4 | NIL |
| PAMCA503 | Database Management Systems | 3 | 0 | 2 | 4 | NIL |
| PAMCA504 | Machine Learning | 3 | 0 | 2 | 4 | NIL |
| PAMCA505 | Software Engineering | 3 | 1 | 0 | 4 | NIL |
| PAMCA506 | Full Stack Web Development | 3 | 0 | 2 | 4 | NIL |
| Professional Elective Courses | | | | | | |
| PAMCA601 | Cloud Computing | 3 | 1 | 0 | 4 | NIL |
| PAMCA602 | Python for Data Science | 3 | 0 | 2 | 4 | NIL |
| PAMCA603 | Mobile Application Design and Development | 3 | 0 | 2 | 4 | NIL |
| PAMCA604 | Cybersecurity | 3 | 1 | 0 | 4 | NIL |
| PAMCA605 | Deep Learning | 3 | 0 | 2 | 4 | NIL |
| PAMCA606 | Generative AI | 3 | 0 | 2 | 4 | NIL |
| PAMCA607 | Mining of Massive Dataset | 3 | 0 | 2 | 4 | NIL |

(Annexure 23)

The Academic Council considered and approved the same.

78/25

To consider and approve the revised programme credit structure, curriculum, course content, Programme Educational Objectives [PEOs] and Programme Outcomes [POs] of Master of Social Works from the academic year 2025-26 onwards.

| Course Code | Course Title | L | T | P | C | Prerequisite |
|---------------------------------|--------------------------------------|---|---|----|---|--------------|
| University Core Courses | | | | | | |
| PAENG501 | Technical Report Writing | 1 | 0 | 4 | 3 | NIL |
| PASWK512 | Skill Lab | 0 | 0 | 6 | 2 | NIL |
| PASWK513 | Field Work Practicum– I | 0 | 1 | 12 | 5 | NIL |
| PASWK514 | Field Work Practicum– II | 0 | 1 | 12 | 5 | NIL |
| Professional Core Course | | | | | | |
| PASWK501 | Social Work Education and Profession | 3 | 0 | 0 | 3 | NIL |

| | | | | | | | |
|---|---|--|---|---|---|---|--------------|
| | PASWK502 | Social Work Practice with Individuals | 3 | 0 | 0 | 3 | NIL |
| | PASWK503 | Social Work Practice with Groups | 3 | 0 | 0 | 3 | NIL |
| | PASWK504 | Community Organization and Social Action | 3 | 0 | 0 | 3 | NIL |
| | PASWK505 | Human Behavior and Social Environment | 3 | 0 | 0 | 3 | NIL |
| | PASWK506 | Social Policy and Legislation | 3 | 0 | 0 | 3 | NIL |
| | PASWK507 | Social Welfare Administration | 3 | 0 | 0 | 3 | NIL |
| | PASWK508 | Counselling and School Social Work | 3 | 0 | 0 | 3 | NIL |
| | PASWK509 | Social Work Research | 3 | 0 | 2 | 4 | NIL |
| | PASWK510 | Social Innovation and Entrepreneurship | 3 | 0 | 0 | 3 | NIL |
| Professional Elective Courses | | | | | | | |
| Medical and Psychiatric Social Work | | | | | | | |
| | PASWK601 | Medical Social Work | 3 | 0 | 0 | 3 | NIL |
| Community Development | | | | | | | |
| | PASWK606 | Rural Community Development | 3 | 0 | 0 | 3 | NIL |
| Human Resource Management | | | | | | | |
| | PASWK611 | Human Resource Management | 3 | 0 | 0 | 3 | NIL |
| (Annexure 24) | | | | | | | |
| The Academic Council considered and approved the same. | | | | | | | |
| 78/26 | To consider and approve the revised programme credit structure and curriculum of Five Year Integrated Master of Technology in Computer Science and Engineering [In Collaboration with Virtusa] for the academic year 2025-26 onwards. | | | | | | |
| (Annexure 25) | | | | | | | |
| The Academic Council considered and approved the same. | | | | | | | |
| 78/27 | To consider and approve the new academic programme, credit structure and curriculum of Five Year Integrated Master of Technology in Computer Science and Engineering (Data Science) for the academic year 2025-26 onwards. | | | | | | |
| (Annexure 26) | | | | | | | |
| The Academic Council considered and approved the same. | | | | | | | |
| 78/28 | To consider and approve the revised programme credit structure, curriculum and course content of Five Year Integrated Master of Technology in Software Engineering for the academic year 2025-26 onwards. | | | | | | |
| Professional Core Courses | | | | | | | |
| | Course Code | Course Title | L | T | P | C | Prerequisite |
| | IASWE101 | Digital Logic and Microprocessor | 3 | 0 | 2 | 4 | NIL |
| | IASWE102 | Software Engineering | 3 | 1 | 0 | 4 | NIL |
| | IASWE201 | Requirements Engineering and Management | 3 | 1 | 0 | 4 | NIL |
| | IASWE202 | Data Structures and Algorithms | 3 | 0 | 2 | 4 | NIL |
| | IASWE203 | Computer Architecture and Organization | 3 | 1 | 0 | 4 | NIL |
| | IASWE204 | Operating Systems | 3 | 0 | 2 | 4 | NIL |
| | IASWE205 | Artificial Intelligence | 3 | 0 | 2 | 4 | NIL |
| | IASWE206 | Database Systems | 3 | 0 | 2 | 4 | NIL |
| | IASWE207 | Computer Networks | 3 | 0 | 2 | 4 | NIL |
| | IASWE208 | Software Architecture and Design | 3 | 1 | 0 | 4 | NIL |
| | IASWE301 | Full Stack Web Development | 3 | 0 | 2 | 4 | NIL |

| | | | | | | |
|----------|--|---|---|---|---|-----|
| IASWE302 | Object Oriented Analysis and Design | 3 | 0 | 2 | 4 | NIL |
| IASWE303 | Software Testing | 3 | 0 | 2 | 4 | NIL |
| IASWE304 | Software Project Management | 3 | 1 | 0 | 4 | NIL |
| IASWE305 | Network and Information Security | 3 | 0 | 2 | 4 | NIL |
| IASWE306 | User Interface Design and Development | 3 | 1 | 0 | 4 | NIL |
| IASWE307 | Agile Development Process and DevOps | 3 | 0 | 2 | 4 | NIL |
| IASWE308 | Mobile Application Development | 3 | 0 | 2 | 4 | NIL |
| IASWE309 | Software Metrics and Quality Assurance | 3 | 1 | 0 | 4 | NIL |

(Annexure 27)

The Academic Council considered and approved the same.

78/29 To consider and approve the course contents for the courses of all Bachelor of Technology programmes.
The curriculum was approved in the 77th meeting of the Academic Council held on 13th March 2025 [Item No. 77/4].

| University Core Courses | | | | | | |
|-------------------------|--|---|---|---|---|--------------|
| Course Code | Course Title | L | T | P | C | Prerequisite |
| BAPHY101 | Applied Physics for Engineers | 3 | 0 | 2 | 4 | NIL |
| BAPHY102 | Physics for Biologist | 3 | 0 | 2 | 4 | NIL |
| BAPHY103 | Physics and Mechanics for Engineers | 3 | 0 | 2 | 4 | NIL |
| BAPHY104 | Physics of Materials | 3 | 0 | 2 | 4 | NIL |
| BAPHY105 | Engineering Physics | 3 | 0 | 2 | 4 | NIL |
| BAPHY106 | Foundations of Quantum Mechanics | 3 | 0 | 2 | 4 | NIL |
| BAPHY107 | Physics of Semiconductor Devices | 3 | 0 | 2 | 4 | NIL |
| BAPHY108 | Semiconductor Physics | 3 | 0 | 2 | 4 | NIL |
| BAPHY109 | Physics of Materials in Textile and Fashion | 3 | 0 | 2 | 4 | NIL |
| BACHY101 | Environmental Sciences | 2 | 0 | 0 | 2 | NIL |
| BACHY102 | Organic Chemistry for Biotechnologists | 3 | 0 | 2 | 4 | NIL |
| BACHY103 | Chemistry for Civil Engineers | 3 | 0 | 2 | 4 | NIL |
| BACHY104 | Engineering Chemistry | 3 | 0 | 2 | 4 | NIL |
| BACHY105 | Applied Chemistry | 3 | 0 | 2 | 4 | NIL |
| BACHY106 | Chemistry for Electrical and Electronics Engineering | 3 | 0 | 2 | 4 | NIL |
| BACHY107 | Applied Chemistry for Electronics Engineering | 3 | 0 | 2 | 4 | NIL |
| BACHY108 | Chemistry for Textile Technology | 3 | 0 | 2 | 4 | NIL |
| BACHY109 | Applied Chemistry for Engineers | 3 | 0 | 2 | 4 | NIL |
| BAMAT101 | Multivariable Calculus and Differential Equations | 3 | 0 | 2 | 4 | NIL |
| BAMAT102 | Calculus and Solid Geometry | 3 | 1 | 0 | 4 | NIL |
| BAMAT201 | Complex Variables and Linear Algebra | 3 | 1 | 0 | 4 | BAMAT101 |
| BAMAT202 | Linear Algebra | 3 | 0 | 2 | 4 | BAMAT101 |
| BAMAT203 | Linear Algebra and Dynamical Systems | 3 | 1 | 0 | 4 | BAMAT101 |
| BAMAT204 | Applied Linear Algebra | 3 | 1 | 0 | 4 | BAMAT101 |
| BAMAT206 | Linear Algebra and Integral Transforms | 3 | 1 | 0 | 4 | BAMAT101 |
| BAMAT207 | Probability and Statistics | 3 | 0 | 2 | 4 | BAMAT101 |

| | | | | | | |
|---------------------------------|--|---|---|---|---|----------|
| BAMAT208 | Probability Theory and Statistical Inference | 3 | 0 | 2 | 4 | BAMAT102 |
| BAEEE101 | Basic Engineering | 3 | 0 | 2 | 4 | NIL |
| BACSE101 | Problem Solving Using Python | 0 | 0 | 4 | 2 | NIL |
| BACSE102 | Problem Solving Using Java | 0 | 0 | 4 | 2 | NIL |
| BAENG101 | Technical English Communication | 3 | 0 | 2 | 4 | NIL |
| BAHUM103 | Ethics and Values | 2 | 0 | 0 | 2 | NIL |
| BAFRE101 | French Level I | 1 | 0 | 2 | 2 | NIL |
| BAJAP101 | Japanese Level I | 1 | 0 | 2 | 2 | NIL |
| BAARB101 | Arabic Level I | 1 | 0 | 2 | 2 | NIL |
| BACHI101 | Chinese Level I | 1 | 0 | 2 | 2 | NIL |
| BAESP101 | Spanish Level I | 1 | 0 | 2 | 2 | NIL |
| BAGER101 | German Level1 | 1 | 0 | 2 | 2 | NIL |
| Open Electives | | | | | | |
| BAFRE201 | French for Engineers: Language and Communication Lab | 2 | 0 | 2 | 3 | BAFRE101 |
| BAJAP201 | Japanese Level II | 2 | 0 | 2 | 3 | BAJAP101 |
| BAESP201 | Spanish Level II | 2 | 0 | 2 | 3 | BAESP101 |
| BAGER201 | German Level II | 2 | 0 | 2 | 3 | BAGER101 |
| BAHIN101 | Prathamik Hindi | 3 | 0 | 0 | 3 | NIL |
| BAHIN102 | प्रयोजनमूलक हिन्दी (Prayojanmulak Hindi) | 2 | 0 | 2 | 3 | NIL |
| Non Credit Courses (NCC) | | | | | | |
| BAENG100 | Effective English Communication (NCC) | 0 | 0 | 4 | 2 | NIL |
| BAMAT100 | Foundations of Mathematics (NCC) | 3 | 1 | 0 | 4 | NIL |

(Annexure 28)

The Academic Council considered and approved the same.

Item
78/30

To consider and approve the course contents for the courses of all Five Year Integrated Master of Technology programmes.

| University Core Courses | | | | | | |
|--------------------------------|---|----------|----------|----------|----------|---------------------|
| Course Code | Course Title | L | T | P | C | Prerequisite |
| IACHY101 | Environmental Sciences | 2 | 0 | 0 | 2 | NIL |
| IACHY102 | Engineering Chemistry | 3 | 0 | 2 | 4 | NIL |
| IAPHY101 | Engineering Physics | 3 | 0 | 2 | 4 | NIL |
| IAMAT101 | Multivariable Calculus and Differential Equations | 3 | 0 | 2 | 4 | NIL |
| IAMAT201 | Applied Linear Algebra | 3 | 1 | 0 | 4 | IAMAT101 |
| IAMAT202 | Discrete Mathematics and Graph Theory | 3 | 1 | 0 | 4 | NIL |
| IAMAT203 | Probability and Statistics | 3 | 0 | 2 | 4 | IAMAT101 |
| IAEEE101 | Basic Electrical and Electronics Engineering | 3 | 0 | 2 | 4 | NIL |
| IACSE101 | Problem Solving Using Python | 0 | 0 | 4 | 2 | NIL |
| IACSE102 | Problem Solving Using Java | 0 | 0 | 4 | 2 | NIL |
| IACSE201 | Structured and Object-Oriented Programming | 2 | 0 | 4 | 4 | NIL |
| IAFRE101 | French Level I | 1 | 0 | 2 | 2 | NIL |

| | | | | | | |
|---------------------------------|---|---|---|---|---|----------|
| IAJAP101 | Japanese Level I | 1 | 0 | 2 | 2 | NIL |
| IAARB101 | Arabic Level I | 1 | 0 | 2 | 2 | NIL |
| IACHI101 | Chinese Level I | 1 | 0 | 2 | 2 | NIL |
| IAESP101 | Spanish Level I | 1 | 0 | 2 | 2 | NIL |
| IAGER101 | German Level1 | 1 | 0 | 2 | 2 | NIL |
| Open Electives | | | | | | |
| IAFRE201 | French for Engineers: Language and Communication Lab | 2 | 0 | 2 | 3 | IAFRE101 |
| IAJAP201 | Japanese Level II | 2 | 0 | 2 | 3 | IAJAP101 |
| IAESP201 | Spanish Level II | 2 | 0 | 2 | 3 | IAESP101 |
| IAGER201 | German Level II | 2 | 0 | 2 | 3 | IAGER101 |
| IAHIN101 | Prathamik Hindi | 3 | 0 | 0 | 3 | NIL |
| IAHIN102 | प्रयोजनमूलक हिन्दी (Prayojanmulak Hindi) | 2 | 0 | 2 | 3 | NIL |
| IAHIN101 | Basic Hindi | 3 | 0 | 0 | 3 | NIL |
| IAENG101 | Technical English Communication | 3 | 0 | 2 | 4 | NIL |
| Non Credit Courses (NCC) | | | | | | |
| IAENG100 | Effective English Communication (NCC) | 0 | 0 | 4 | 2 | NIL |

(Annexure 29)

The Academic Council considered and approved the same.

78/31

To consider and approve the course contents for the courses of Bachelor of Technology in Biotechnology.

The curriculum was approved in the 77th meeting of the Academic Council held on 13th March 2025 [Item No. 77/4.1].

| Professional Core Course | | | | | | |
|---------------------------------|--|---|---|---|---|----------------------|
| Programme Core | | | | | | |
| Course Code | Course Title | L | T | P | C | Prerequisite |
| BABIT101 | Biochemistry | 3 | 0 | 2 | 4 | NIL |
| BABIT102 | Microbiology | 3 | 0 | 2 | 4 | NIL |
| BABIT103 | Cell and Molecular Biology | 3 | 0 | 2 | 4 | NIL |
| BABIT201 | Principles of Chemical Engineering | 3 | 0 | 2 | 4 | NIL |
| BABIT202 | Fundamentals of Bioinformatics | 2 | 1 | 2 | 4 | BABIT101 |
| BABIT203 | Analytical Techniques in Biotechnology | 3 | 0 | 2 | 4 | BABIT101 |
| BABIT204 | Industrial Biotechnology | 3 | 1 | 0 | 4 | BABIT102 |
| BABIT205 | Immunology | 3 | 0 | 2 | 4 | BABIT102 BABIT103 |
| BABIT206 | Bioprocess Engineering | 3 | 0 | 2 | 4 | BABIT201 |
| BABIT207 | Genetic Engineering | 3 | 0 | 2 | 4 | BABIT103 |
| Concentrations | | | | | | |

| Microbial Technology | | | | | | |
|---------------------------------------|---|---|---|---|---|----------------------|
| BABIT301 | Environmental Biotechnology | 3 | 1 | 0 | 4 | BABIT102 |
| BABIT302 | Industrial Enzymology | 3 | 1 | 0 | 4 | BABIT101 |
| BABIT303 | Biochemical Engineering | 3 | 1 | 0 | 4 | BABIT201 |
| BABIT401 | Downstream Processing | 3 | 0 | 2 | 4 | BABIT206 |
| BABIT402 | Protein Engineering and Design | 3 | 1 | 0 | 4 | BABIT103 |
| Applied Bioinformatics | | | | | | |
| BABIT304 | Structural Bioinformatics | 3 | 0 | 2 | 4 | BABIT103 |
| BABIT305 | Computational Biology | 2 | 1 | 2 | 4 | BAMAT101 |
| BABIT306 | Systems Biology | 3 | 1 | 0 | 4 | BABIT103 |
| BABIT403 | Biological Data Analytics | 3 | 1 | 0 | 4 | BABIT306 |
| BABIT404 | Artificial Intelligence and Machine Learning in Biology | 2 | 1 | 2 | 4 | BABIT202 |
| Bio-Pharmaceuticals | | | | | | |
| BABIT307 | Pharmaceutical Biotechnology | 3 | 1 | 0 | 4 | BABIT101 |
| BABIT308 | Medical Diagnostics | 3 | 1 | 0 | 4 | BABIT205 |
| BABIT309 | Pharmacoinformatics and Pharmacovigilance | 3 | 0 | 2 | 4 | BABIT202 |
| BABIT405 | Drug Discovery and Development | 3 | 1 | 0 | 4 | BABIT202 |
| BABIT406 | Toxicology | 3 | 1 | 0 | 4 | BABIT101 |
| Plant and Animal Biotechnology | | | | | | |
| BABIT310 | Plant Biotechnology | 3 | 1 | 0 | 4 | BABIT103 |
| BABIT311 | Animal Biotechnology | 3 | 1 | 0 | 4 | BABIT207 |
| BABIT312 | Food Process Engineering | 3 | 1 | 0 | 4 | BABIT101 |
| BABIT407 | Developmental Biology and Regenerative Medicine | 3 | 1 | 0 | 4 | BABIT103 |
| BABIT408 | Genomics and Proteomics | 3 | 1 | 0 | 4 | BABIT101 BABIT103 |

(Annexure 30)

The Academic Council considered and approved the same.

Item
78/32

To consider and approve the course contents for the course of Bachelor of Technology in Chemical Engineering.

The curriculum was approved in the 77th meeting of the Academic Council held on 13th March 2025 [Item No. 77/4.2].

| Professional Core Course | | | | | | |
|---------------------------------|-------------------------------------|---|---|---|---|--------------|
| Programme Core | | | | | | |
| Course Code | Course Title | L | T | P | C | Prerequisite |
| BACHE101 | Chemical Engineering Thermodynamics | 3 | 1 | 0 | 4 | NIL |

(Annexure 31)

The Academic Council considered and approved the same.

Item
78/33

To consider and approve the course contents for the courses of Bachelor of Technology in Civil Engineering.

The curriculum was approved in the 77th meeting of the Academic Council held on 13th March 2025 [Item No. 77/4.3].

| Professional Core Courses | | | | | | |
|---|---------------------------------------|---|---|---|---|--------------|
| Programme Core | | | | | | |
| Course Code | Course Title | L | T | P | C | Prerequisite |
| BACLE101 | Digital Surveying | 3 | 0 | 2 | 4 | NIL |
| BACLE102 | Environmental Engineering | 3 | 0 | 2 | 4 | NIL |
| BACLE103 | Mechanics of Solids | 3 | 0 | 2 | 4 | NIL |
| Humanities, Social Science and Management | | | | | | |
| BACLE104 | Waste Management | 3 | 0 | 0 | 3 | NIL |
| BACLE105 | Disaster Mitigation and Management | 3 | 0 | 0 | 3 | NIL |
| BACLE106 | Urban Planning and Development | 3 | 0 | 0 | 3 | NIL |
| BACLE107 | Sustainable Infrastructure Management | 3 | 0 | 0 | 3 | NIL |

(Annexure 32)

The Academic Council considered and approved the same.

Item
78/34

To consider and approve the course contents for the courses of Bachelor of Technology in Computer Science and Engineering, Bachelor of Technology in Computer Science and Engineering (Data Science), Bachelor of Technology in Computer Science and Engineering and Business Systems [In collaboration with TCS] and Bachelor of Technology in Computer Science and Engineering (Cyber Physical Systems).

The curriculum was approved in the 77th meeting of the Academic Council held on 13th March 2025 [Item No. 77/4.4, 6, 7, 8].

| Professional Core Courses | | | | | | |
|---------------------------|--|---|---|---|---|--------------|
| Programme Core | | | | | | |
| Course Code | Course Title | L | T | P | C | Prerequisite |
| BACSE103 | Computation Structures | 3 | 0 | 2 | 4 | NIL |
| BACSE104 | Structured and Object-Oriented Programming | 2 | 0 | 4 | 4 | NIL |
| BACSE105 | Data Structures and Algorithms | 3 | 0 | 2 | 4 | NIL |
| BACSE106 | Operating Systems | 3 | 0 | 2 | 4 | NIL |
| BACSE201 | Models of Computation | 3 | 1 | 0 | 4 | NIL |
| BACSE202 | Database Systems | 3 | 0 | 2 | 4 | NIL |
| BACSE203 | Computer Networks | 3 | 0 | 2 | 4 | NIL |
| BACSE204 | Software Engineering | 3 | 0 | 2 | 4 | NIL |
| BACSE205 | Fundamentals of Artificial Intelligence and Machine Learning | 3 | 0 | 2 | 4 | NIL |
| BAMAT205 | Discrete Mathematics and Linear Algebra | 3 | 1 | 0 | 4 | BAMAT101 |

(Annexure 33)

The Academic Council considered and approved the same.

| Item 78/35 | <p>To consider and approve the course contents for the courses of Bachelor of Technology in Computer Science and Engineering (Bioinformatics).</p> <p>The curriculum was approved in the 77th meeting of the Academic Council held on 13th March 2025 [Item No. 77/4.5].</p> <table border="1" data-bbox="220 297 1481 1272"> <thead> <tr> <th colspan="7">Professional Core Courses</th> </tr> <tr> <th colspan="7">Programme Core</th> </tr> <tr> <th>Course Code</th> <th>Course Title</th> <th>L</th> <th>T</th> <th>P</th> <th>C</th> <th>Prerequisite</th> </tr> </thead> <tbody> <tr> <td>BACSE103</td> <td>Computation Structures</td> <td>3</td> <td>0</td> <td>2</td> <td>4</td> <td>NIL</td> </tr> <tr> <td>BACSE104</td> <td>Structured and Object-Oriented Programming</td> <td>2</td> <td>0</td> <td>4</td> <td>4</td> <td>NIL</td> </tr> <tr> <td>BACSE105</td> <td>Data Structures and Algorithms</td> <td>3</td> <td>0</td> <td>2</td> <td>4</td> <td>NIL</td> </tr> <tr> <td>BACSE106</td> <td>Operating Systems</td> <td>3</td> <td>0</td> <td>2</td> <td>4</td> <td>NIL</td> </tr> <tr> <td>BACSE201</td> <td>Models of Computation</td> <td>3</td> <td>1</td> <td>0</td> <td>4</td> <td>NIL</td> </tr> <tr> <td>BACSE202</td> <td>Database Systems</td> <td>3</td> <td>0</td> <td>2</td> <td>4</td> <td>NIL</td> </tr> <tr> <td>BACSE203</td> <td>Computer Networks</td> <td>3</td> <td>0</td> <td>2</td> <td>4</td> <td>NIL</td> </tr> <tr> <td>BACSE204</td> <td>Software Engineering</td> <td>3</td> <td>0</td> <td>2</td> <td>4</td> <td>NIL</td> </tr> <tr> <td>BACSE205</td> <td>Fundamentals of Artificial Intelligence and Machine Learning</td> <td>3</td> <td>0</td> <td>2</td> <td>4</td> <td>NIL</td> </tr> <tr> <td>BAMAT205</td> <td>Discrete Mathematics and Linear Algebra</td> <td>3</td> <td>1</td> <td>0</td> <td>4</td> <td>BAMAT101</td> </tr> <tr> <th colspan="7">Concentrations</th> </tr> <tr> <th colspan="7">Bioinformatics</th> </tr> <tr> <td>BABIT101</td> <td>Biochemistry</td> <td>3</td> <td>0</td> <td>2</td> <td>4</td> <td>NIL</td> </tr> <tr> <td>BABIT202</td> <td>Fundamentals of Bioinformatics</td> <td>2</td> <td>1</td> <td>2</td> <td>4</td> <td>BABIT101</td> </tr> <tr> <td>BABIT103</td> <td>Cell and Molecular Biology</td> <td>3</td> <td>0</td> <td>2</td> <td>4</td> <td>NIL</td> </tr> <tr> <td>BABIT304</td> <td>Structural Bioinformatics</td> <td>3</td> <td>0</td> <td>2</td> <td>4</td> <td>BABIT103</td> </tr> <tr> <td>BABIT306</td> <td>Systems Biology</td> <td>3</td> <td>1</td> <td>0</td> <td>4</td> <td>BABIT103</td> </tr> </tbody> </table> <p style="text-align: right;">(Annexure 34)</p> <p>The Academic Council considered and approved the same.</p> | Professional Core Courses | | | | | | | Programme Core | | | | | | | Course Code | Course Title | L | T | P | C | Prerequisite | BACSE103 | Computation Structures | 3 | 0 | 2 | 4 | NIL | BACSE104 | Structured and Object-Oriented Programming | 2 | 0 | 4 | 4 | NIL | BACSE105 | Data Structures and Algorithms | 3 | 0 | 2 | 4 | NIL | BACSE106 | Operating Systems | 3 | 0 | 2 | 4 | NIL | BACSE201 | Models of Computation | 3 | 1 | 0 | 4 | NIL | BACSE202 | Database Systems | 3 | 0 | 2 | 4 | NIL | BACSE203 | Computer Networks | 3 | 0 | 2 | 4 | NIL | BACSE204 | Software Engineering | 3 | 0 | 2 | 4 | NIL | BACSE205 | Fundamentals of Artificial Intelligence and Machine Learning | 3 | 0 | 2 | 4 | NIL | BAMAT205 | Discrete Mathematics and Linear Algebra | 3 | 1 | 0 | 4 | BAMAT101 | Concentrations | | | | | | | Bioinformatics | | | | | | | BABIT101 | Biochemistry | 3 | 0 | 2 | 4 | NIL | BABIT202 | Fundamentals of Bioinformatics | 2 | 1 | 2 | 4 | BABIT101 | BABIT103 | Cell and Molecular Biology | 3 | 0 | 2 | 4 | NIL | BABIT304 | Structural Bioinformatics | 3 | 0 | 2 | 4 | BABIT103 | BABIT306 | Systems Biology | 3 | 1 | 0 | 4 | BABIT103 |
|---------------------------|---|---------------------------|---|---|---|--------------|--|--|----------------|--|--|--|--|--|--|-------------|--------------|---|---|---|---|--------------|----------|------------------------|---|---|---|---|-----|----------|--|---|---|---|---|-----|----------|--------------------------------|---|---|---|---|-----|----------|-------------------|---|---|---|---|-----|----------|-----------------------|---|---|---|---|-----|----------|------------------|---|---|---|---|-----|----------|-------------------|---|---|---|---|-----|----------|----------------------|---|---|---|---|-----|----------|--|---|---|---|---|-----|----------|---|---|---|---|---|----------|----------------|--|--|--|--|--|--|----------------|--|--|--|--|--|--|----------|--------------|---|---|---|---|-----|----------|--------------------------------|---|---|---|---|----------|----------|----------------------------|---|---|---|---|-----|----------|---------------------------|---|---|---|---|----------|----------|-----------------|---|---|---|---|----------|
| Professional Core Courses | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Programme Core | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Course Code | Course Title | L | T | P | C | Prerequisite | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BACSE103 | Computation Structures | 3 | 0 | 2 | 4 | NIL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BACSE104 | Structured and Object-Oriented Programming | 2 | 0 | 4 | 4 | NIL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BACSE105 | Data Structures and Algorithms | 3 | 0 | 2 | 4 | NIL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BACSE106 | Operating Systems | 3 | 0 | 2 | 4 | NIL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BACSE201 | Models of Computation | 3 | 1 | 0 | 4 | NIL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BACSE202 | Database Systems | 3 | 0 | 2 | 4 | NIL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BACSE203 | Computer Networks | 3 | 0 | 2 | 4 | NIL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BACSE204 | Software Engineering | 3 | 0 | 2 | 4 | NIL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BACSE205 | Fundamentals of Artificial Intelligence and Machine Learning | 3 | 0 | 2 | 4 | NIL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BAMAT205 | Discrete Mathematics and Linear Algebra | 3 | 1 | 0 | 4 | BAMAT101 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Concentrations | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bioinformatics | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BABIT101 | Biochemistry | 3 | 0 | 2 | 4 | NIL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BABIT202 | Fundamentals of Bioinformatics | 2 | 1 | 2 | 4 | BABIT101 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BABIT103 | Cell and Molecular Biology | 3 | 0 | 2 | 4 | NIL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BABIT304 | Structural Bioinformatics | 3 | 0 | 2 | 4 | BABIT103 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BABIT306 | Systems Biology | 3 | 1 | 0 | 4 | BABIT103 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| Item 78/36 | <p>To consider and approve the course contents for the courses of Bachelor of Technology in Computer Science and Engineering (Artificial Intelligence and Machine Learning), Bachelor of Technology in Computer Science and Engineering (Artificial Intelligence and Robotics).</p> <p>The curriculum was approved in the 77th meeting of the Academic Council held on 13th March 2025 [Item No. 77/4.9, 10].</p> <table border="1" data-bbox="220 1675 1481 2045"> <thead> <tr> <th colspan="7">Professional Core Courses</th> </tr> <tr> <th colspan="7">Programme Core</th> </tr> <tr> <th>Course Code</th> <th>Course Title</th> <th>L</th> <th>T</th> <th>P</th> <th>C</th> <th>Prerequisite</th> </tr> </thead> <tbody> <tr> <td>BACSE103</td> <td>Computation Structures</td> <td>3</td> <td>0</td> <td>2</td> <td>4</td> <td>NIL</td> </tr> <tr> <td>BACSE104</td> <td>Structured and Object-Oriented Programming</td> <td>2</td> <td>0</td> <td>4</td> <td>4</td> <td>NIL</td> </tr> <tr> <td>BACSE105</td> <td>Data Structures and Algorithms</td> <td>3</td> <td>0</td> <td>2</td> <td>4</td> <td>NIL</td> </tr> </tbody> </table> | Professional Core Courses | | | | | | | Programme Core | | | | | | | Course Code | Course Title | L | T | P | C | Prerequisite | BACSE103 | Computation Structures | 3 | 0 | 2 | 4 | NIL | BACSE104 | Structured and Object-Oriented Programming | 2 | 0 | 4 | 4 | NIL | BACSE105 | Data Structures and Algorithms | 3 | 0 | 2 | 4 | NIL |
|---------------------------|---|---------------------------|---|---|---|--------------|--|--|----------------|--|--|--|--|--|--|-------------|--------------|---|---|---|---|--------------|----------|------------------------|---|---|---|---|-----|----------|--|---|---|---|---|-----|----------|--------------------------------|---|---|---|---|-----|
| Professional Core Courses | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Programme Core | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Course Code | Course Title | L | T | P | C | Prerequisite | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BACSE103 | Computation Structures | 3 | 0 | 2 | 4 | NIL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BACSE104 | Structured and Object-Oriented Programming | 2 | 0 | 4 | 4 | NIL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BACSE105 | Data Structures and Algorithms | 3 | 0 | 2 | 4 | NIL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| | | | | | | |
|----------|---|---|---|---|---|----------|
| BACSE106 | Operating Systems | 3 | 0 | 2 | 4 | NIL |
| BACSE201 | Models of Computation | 3 | 1 | 0 | 4 | NIL |
| BACSE202 | Database Systems | 3 | 0 | 2 | 4 | NIL |
| BACSE203 | Computer Networks | 3 | 0 | 2 | 4 | NIL |
| BACSE204 | Software Engineering | 3 | 0 | 2 | 4 | NIL |
| BACSE206 | Foundations of Artificial Intelligence | 3 | 1 | 0 | 4 | NIL |
| BAMAT205 | Discrete Mathematics and Linear Algebra | 3 | 1 | 0 | 4 | BAMAT101 |

(Annexure 35)

The Academic Council considered and approved the same.

Item 78/37 To consider and approve the course contents for the courses of Bachelor of Technology in Electronics and Communication Engineering.

The curriculum was approved in the 77th meeting of the Academic Council held on 13th March 2025 [Item No. 77/4.14].

| University Core Courses | | | | | | |
|---------------------------|---|---|---|---|---|---------------------|
| Course Code | Course Title | L | T | P | C | Prerequisite |
| BAECE191 | Basic Multidisciplinary Project | 0 | 0 | 4 | 2 | NIL |
| Professional Core Courses | | | | | | |
| Programme Core | | | | | | |
| BAECE101 | Signals and Systems | 3 | 1 | 0 | 4 | NIL |
| BAECE102 | Digital Logic Design | 3 | 0 | 2 | 4 | NIL |
| BAECE103 | Network Theory | 3 | 1 | 0 | 4 | NIL |
| BAECE201 | Probability Theory and Random Processes | 3 | 1 | 0 | 4 | BAECE101 |
| BAECE202 | Engineering Electromagnetics | 3 | 1 | 0 | 4 | NIL |
| BAECE203 | Analog Electronics | 3 | 0 | 2 | 4 | BAPHY107 |
| BAECE204 | Microcontrollers and Embedded C Programming | 3 | 0 | 2 | 4 | BAECE102 / BAEVD102 |
| BAECE205 | Control Systems | 3 | 1 | 0 | 4 | NIL |
| BAECE207 | Analog and Digital Communication Systems | 3 | 0 | 2 | 4 | BAECE203 |
| BAECE302 | VLSI System Design | 3 | 0 | 2 | 4 | BAECE102 |
| Concentration | | | | | | |
| Communication Systems | | | | | | |
| BAECE206 | Digital Signal Processing | 3 | 0 | 2 | 4 | BAECE101 |
| BAECE301 | Antenna and Microwave Engineering | 3 | 0 | 2 | 4 | BAECE202 |
| BAECE303 | Data Communications and Networking | 3 | 0 | 2 | 4 | BAECE207 |
| BAECE304 | Wireless and Mobile Communications | 3 | 0 | 2 | 4 | BAECE207 |
| BAECE305 | Optical Communications and Networks | 3 | 0 | 2 | 4 | BAECE207 |

(Annexure 36)

The Academic Council considered and approved the same.

Item 78/38 To consider and approve the course contents for the courses of Bachelor of Technology in Electronics and Communication Engineering (Biomedical Engineering).

The curriculum was approved in the 77th meeting of the Academic Council held on 13th March 2025 [Item No. 77/4.15].

| University Core Courses | | | | | | |
|---------------------------|---|---|---|---|---|---------------------|
| Course Code | Course Title | L | T | P | C | Prerequisite |
| BAECE191 | Basic Multidisciplinary Project | 0 | 0 | 4 | 2 | NIL |
| Professional Core Courses | | | | | | |
| Programme Core | | | | | | |
| BAECE101 | Signals and Systems | 3 | 1 | 0 | 4 | NIL |
| BAECE102 | Digital Logic Design | 3 | 0 | 2 | 4 | NIL |
| BAECE103 | Network Theory | 3 | 1 | 0 | 4 | NIL |
| BAECE201 | Probability Theory and Random Processes | 3 | 1 | 0 | 4 | BAECE101 |
| BAECE202 | Engineering Electromagnetics | 3 | 1 | 0 | 4 | NIL |
| BAECE203 | Analog Electronics | 3 | 0 | 2 | 4 | BAPHY107 |
| BAECE204 | Microcontrollers and Embedded C Programming | 3 | 0 | 2 | 4 | BAECE102 / BAEVD102 |
| BAECE205 | Control Systems | 3 | 1 | 0 | 4 | NIL |
| BAECE207 | Analog and Digital Communication Systems | 3 | 0 | 2 | 4 | BAECE203 |
| BAECE302 | VLSI System Design | 3 | 0 | 2 | 4 | BAECE102 |
| Concentration | | | | | | |
| Biomedical Engineering | | | | | | |
| BABMD301 | Human Anatomy and Biomechanics | 3 | 1 | 0 | 4 | NIL |
| BABMD302 | Bio-signal and Image Processing | 3 | 0 | 2 | 4 | BAECE101 |
| BABMD303 | Biomedical Sensors and Data Acquisition | 3 | 0 | 2 | 4 | NIL |
| BABMD304 | Artificial Intelligence in Healthcare | 3 | 1 | 0 | 4 | NIL |
| BABMD305 | Medical Instrumentation | 3 | 0 | 2 | 4 | NIL |
| Bridge Courses | | | | | | |
| BABIT100 | Biology (NCC) | 3 | 1 | 0 | 4 | NIL |
| BAMAT100 | Foundations of Mathematics (NCC) | 3 | 1 | 0 | 4 | NIL |

(Annexure 37)

The Academic Council considered and approved the same.

Item 78/39

To consider and approve the course contents for the courses of Bachelor of Technology in Electronics Engineering (VLSI Design and Technology).

The curriculum was approved in the 77th meeting of the Academic Council held on 13th March 2025 [Item No. 77/4.17].

| University Core Courses | | | | | | |
|-------------------------|---------------------------------|---|---|---|---|--------------|
| Course Code | Course Title | L | T | P | C | Prerequisite |
| BAECE191 | Basic Multidisciplinary Project | 0 | 0 | 4 | 2 | NIL |

| Professional Core Courses | | | | | | |
|----------------------------|---|---|---|---|---|---------------------|
| Programme Core | | | | | | |
| BAECE103 | Network Theory | 3 | 1 | 0 | 4 | NIL |
| BAEVD101 | Electronic Devices | 3 | 0 | 2 | 4 | BAPHY108 |
| BAEVD102 | Digital System Design | 3 | 0 | 2 | 4 | NIL |
| BAECE202 | Engineering Electromagnetics | 3 | 1 | 0 | 4 | NIL |
| BAECE204 | Microcontrollers and Embedded C Programming | 3 | 0 | 2 | 4 | BAEVD102 / BAECE102 |
| BAECE205 | Control Systems | 3 | 1 | 0 | 4 | NIL |
| BAEVD201 | Electronic Circuits | 3 | 0 | 2 | 4 | BAEVD101 |
| BAEVD202 | Computer Architecture | 3 | 1 | 0 | 4 | BAEVD102 |
| BAEVD203 | Communication Systems | 3 | 1 | 0 | 4 | NIL |
| BAEVD204 | Signal Processing | 3 | 0 | 2 | 4 | NIL |
| Concentration | | | | | | |
| VLSI Design and Technology | | | | | | |
| BAEVD205 | VLSI Circuit Design | 3 | 0 | 2 | 4 | BAEVD102 |
| BAEVD301 | Verification Methodologies | 3 | 0 | 2 | 4 | BAEVD102 |
| BAEVD302 | CMOS Analog IC Design | 3 | 0 | 2 | 4 | BAEVD201 |
| BAEVD303 | ASIC Design | 3 | 0 | 2 | 4 | BAEVD102 |
| BAEVD304 | VLSI Technology | 3 | 0 | 2 | 4 | BAEVD101 |

(Annexure 38)

The Academic Council considered and approved the same.

| Item 78/40 | <p>To consider and approve the course contents for the courses of Bachelor of Technology in Electronics and Computer Engineering.</p> <p>The curriculum was approved in the 77th meeting of the Academic Council held on 13th March 2025 [Item No. 77/4.16].</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|--|-------------------------|---|---|---|--------------------|--|--|-------------|--------------|---|---|---|---|--------------|----------|---------------------------------|---|---|---|---|-----|---------------------------|--|--|--|--|--|--|----------------|--|--|--|--|--|--|----------|--|---|---|---|---|-----|----------|----------------|---|---|---|---|-----|----------|--|---|---|---|---|-----|----------|--------------------------------|---|---|---|---|-----|----------|---|---|---|---|---|-----|----------|-------------------|---|---|---|---|-----|----------|--------------------|---|---|---|---|----------|----------|---|---|---|---|---|--------------------|----------|--------------------|---|---|---|---|----------|----------|-------------------|---|---|---|---|-----|----------------|--|--|--|--|--|--|
| <table border="1"> <thead> <tr> <th colspan="7">University Core Courses</th> </tr> <tr> <th>Course Code</th> <th>Course Title</th> <th>L</th> <th>T</th> <th>P</th> <th>C</th> <th>Prerequisite</th> </tr> </thead> <tbody> <tr> <td>BAECE191</td> <td>Basic Multidisciplinary Project</td> <td>0</td> <td>0</td> <td>4</td> <td>2</td> <td>NIL</td> </tr> <tr> <th colspan="7">Professional Core Courses</th> </tr> <tr> <th colspan="7">Programme Core</th> </tr> <tr> <td>BAMAT209</td> <td>Mathematical Foundations for Computation</td> <td>3</td> <td>1</td> <td>0</td> <td>4</td> <td>NIL</td> </tr> <tr> <td>BAECE103</td> <td>Network Theory</td> <td>3</td> <td>1</td> <td>0</td> <td>4</td> <td>NIL</td> </tr> <tr> <td>BACSE104</td> <td>Structured and Object-Oriented Programming</td> <td>3</td> <td>0</td> <td>2</td> <td>4</td> <td>NIL</td> </tr> <tr> <td>BACSE105</td> <td>Data Structures and Algorithms</td> <td>3</td> <td>0</td> <td>2</td> <td>4</td> <td>NIL</td> </tr> <tr> <td>BACSE107</td> <td>Digital Logic and Computer Architecture</td> <td>3</td> <td>0</td> <td>2</td> <td>4</td> <td>NIL</td> </tr> <tr> <td>BACSE203</td> <td>Computer Networks</td> <td>3</td> <td>0</td> <td>2</td> <td>4</td> <td>NIL</td> </tr> <tr> <td>BAECE203</td> <td>Analog Electronics</td> <td>3</td> <td>0</td> <td>2</td> <td>4</td> <td>BAPHY107</td> </tr> <tr> <td>BAECE204</td> <td>Microcontrollers and Embedded C Programming</td> <td>3</td> <td>0</td> <td>2</td> <td>4</td> <td>BAEVD102/ BAECE104</td> </tr> <tr> <td>BAECE302</td> <td>VLSI System Design</td> <td>3</td> <td>0</td> <td>2</td> <td>4</td> <td>BAECE104</td> </tr> <tr> <td>BAEVD204</td> <td>Signal Processing</td> <td>3</td> <td>0</td> <td>2</td> <td>4</td> <td>NIL</td> </tr> <tr> <th colspan="7">Concentrations</th> </tr> </tbody> </table> | | University Core Courses | | | | | | | Course Code | Course Title | L | T | P | C | Prerequisite | BAECE191 | Basic Multidisciplinary Project | 0 | 0 | 4 | 2 | NIL | Professional Core Courses | | | | | | | Programme Core | | | | | | | BAMAT209 | Mathematical Foundations for Computation | 3 | 1 | 0 | 4 | NIL | BAECE103 | Network Theory | 3 | 1 | 0 | 4 | NIL | BACSE104 | Structured and Object-Oriented Programming | 3 | 0 | 2 | 4 | NIL | BACSE105 | Data Structures and Algorithms | 3 | 0 | 2 | 4 | NIL | BACSE107 | Digital Logic and Computer Architecture | 3 | 0 | 2 | 4 | NIL | BACSE203 | Computer Networks | 3 | 0 | 2 | 4 | NIL | BAECE203 | Analog Electronics | 3 | 0 | 2 | 4 | BAPHY107 | BAECE204 | Microcontrollers and Embedded C Programming | 3 | 0 | 2 | 4 | BAEVD102/ BAECE104 | BAECE302 | VLSI System Design | 3 | 0 | 2 | 4 | BAECE104 | BAEVD204 | Signal Processing | 3 | 0 | 2 | 4 | NIL | Concentrations | | | | | | |
| University Core Courses | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Course Code | Course Title | L | T | P | C | Prerequisite | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BAECE191 | Basic Multidisciplinary Project | 0 | 0 | 4 | 2 | NIL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Professional Core Courses | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Programme Core | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BAMAT209 | Mathematical Foundations for Computation | 3 | 1 | 0 | 4 | NIL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BAECE103 | Network Theory | 3 | 1 | 0 | 4 | NIL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BACSE104 | Structured and Object-Oriented Programming | 3 | 0 | 2 | 4 | NIL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BACSE105 | Data Structures and Algorithms | 3 | 0 | 2 | 4 | NIL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BACSE107 | Digital Logic and Computer Architecture | 3 | 0 | 2 | 4 | NIL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BACSE203 | Computer Networks | 3 | 0 | 2 | 4 | NIL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BAECE203 | Analog Electronics | 3 | 0 | 2 | 4 | BAPHY107 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BAECE204 | Microcontrollers and Embedded C Programming | 3 | 0 | 2 | 4 | BAEVD102/ BAECE104 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BAECE302 | VLSI System Design | 3 | 0 | 2 | 4 | BAECE104 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BAEVD204 | Signal Processing | 3 | 0 | 2 | 4 | NIL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Concentrations | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| Software Systems | | | | | | |
|-------------------------|--|---|---|---|---|-----|
| BACSE106 | Operating Systems | 3 | 0 | 2 | 4 | NIL |
| BACSE202 | Database Systems | 3 | 0 | 2 | 4 | NIL |
| BACSE204 | Software Engineering | 3 | 0 | 2 | 4 | NIL |
| BACSE205 | Fundamentals of Artificial Intelligence and Machine Learning | 3 | 0 | 2 | 4 | NIL |
| BACSE208 | Theory of Computation and Compiler Design | 3 | 1 | 0 | 4 | NIL |

(Annexure 39)

The Academic Council considered and approved the same.

Item 78/41 To consider and approve the course contents for the courses of Bachelor of Technology in Health Sciences and Technology.

The curriculum was approved in the 77th meeting of the Academic Council held on 13th March 2025 [Item No. 77/4.18].

| Course Code | Course Title | L | T | P | C | Prerequisite |
|---|---|---|---|---|---|--------------------|
| Professional Core Courses | | | | | | |
| Programme Core | | | | | | |
| BAHST101 | Applied Human Anatomy and Physiology | 3 | 0 | 2 | 4 | NIL |
| BAHST102 | Fundamentals of Artificial Intelligence for Healthcare | 3 | 1 | 0 | 4 | NIL |
| BAHST103 | Diagnostics, Therapeutic and Surgical Equipments | 3 | 0 | 2 | 4 | NIL |
| BAHST201 | Bio-Medical Imaging and Image Processing | 3 | 0 | 2 | 4 | BAMAT101, BAMAT204 |
| BAHST202 | Materials in Healthcare | 3 | 0 | 2 | 4 | NIL |
| BAHST203 | Molecular and Cellular Biology for Health Sciences | 3 | 0 | 2 | 4 | NIL |
| BAHST204 | Biofluid Mechanics | 3 | 1 | 0 | 4 | NIL |
| BAHST205 | Signal Processing and Analysis for Healthcare Application | 3 | 0 | 2 | 4 | BAHST101 |
| BAHST206 | Biomechanics | 3 | 1 | 0 | 4 | BAMAT101, BAMAT204 |
| BAHST301 | Biofabrication Technologies | 3 | 0 | 2 | 4 | BAHST202 |
| Concentrations | | | | | | |
| Medical Device Engineering and Intelligent Systems | | | | | | |
| BAHST302 | Engineering Design of Medical Devices and Systems | 3 | 0 | 2 | 4 | NIL |
| Regenerative Medicine and Biotherapeutics | | | | | | |
| BAHST309 | Microbiology, Immunology, and Pathology | 3 | 0 | 2 | 4 | NIL |
| BAHST311 | Biochemistry and Molecular Pharmacology | 3 | 0 | 2 | 4 | NIL |

(Annexure 40)

The Academic Council considered and approved the same.

78/42

To consider and approve the course contents for the courses of Bachelor of Technology in Information Technology.

The curriculum was approved in the 77th meeting of the Academic Council held on 13th March 2025 [Item No. 77/4.25].

| Professional Core Courses | | | | | | |
|--|--|---|---|---|---|--------------|
| Programme Core | | | | | | |
| Course Code | Course Title | L | T | P | C | Prerequisite |
| BAITE101 | Digital Logic Design and Computer Organization | 3 | 0 | 2 | 4 | NIL |
| BAITE102 | Data Structures and Algorithms | 3 | 0 | 2 | 4 | NIL |
| BAITE103 | Principles of Software Engineering | 3 | 0 | 2 | 4 | NIL |
| BAITE201 | Operating System Principles | 3 | 0 | 2 | 4 | NIL |
| BAITE202 | Database Information Systems | 3 | 0 | 2 | 4 | NIL |
| BAITE203 | Computer Networks and Data Communications | 3 | 0 | 2 | 4 | NIL |
| BAITE301 | Machine Learning | 3 | 0 | 2 | 4 | NIL |
| Concentration | | | | | | |
| BAITE302 | Foundations of Data Science | 3 | 1 | 0 | 4 | NIL |
| BAITE303 | Full Stack Data Engineering | 3 | 1 | 0 | 4 | NIL |
| BAITE304 | Data Analytics for Internet of Things | 3 | 1 | 0 | 4 | NIL |
| BAITE401 | Graph Data Science and Network Analysis | 3 | 1 | 0 | 4 | NIL |
| BAITE402 | Deep Reinforcement Learning | 3 | 1 | 0 | 4 | NIL |
| Cyber Forensics and Security | | | | | | |
| BAITE305 | Network and Information Security | 3 | 1 | 0 | 4 | NIL |
| BAITE306 | Cyber Forensics | 3 | 1 | 0 | 4 | NIL |
| BAITE307 | Vulnerability Analysis and Control | 3 | 1 | 0 | 4 | NIL |
| BAITE403 | Cyber Threat Intelligence | 3 | 1 | 0 | 4 | NIL |
| BAITE404 | Legal and Ethical issues in Information Technology | 3 | 1 | 0 | 4 | NIL |
| Physical Artificial Intelligence and Machine Learning | | | | | | |
| BAITE308 | Explainable Artificial Intelligence and Trustworthy ML | 3 | 1 | 0 | 4 | NIL |
| BAITE309 | Foundations of Large Language Models | 3 | 1 | 0 | 4 | NIL |
| BAITE310 | Generative Physical Artificial Intelligence | 3 | 1 | 0 | 4 | NIL |
| BAITE405 | Artificial Intelligence Ethics and Governance | 3 | 1 | 0 | 4 | NIL |
| BAITE406 | Agentic Artificial Intelligence | 3 | 1 | 0 | 4 | NIL |
| Computational Finance | | | | | | |
| BAITE311 | Introduction to Finance | 3 | 1 | 0 | 4 | NIL |
| BAITE312 | Financial Analytics | 3 | 1 | 0 | 4 | NIL |
| BAITE313 | Machine Learning for Finance | 3 | 1 | 0 | 4 | NIL |
| BAITE407 | Financial Engineering and Risk Management | 3 | 1 | 0 | 4 | NIL |
| BAITE408 | Blockchain Technologies | 3 | 1 | 0 | 4 | NIL |

(Annexure 41)

The Academic Council considered and approved the same.

78/43 To consider and approve the course contents for the courses of Bachelor of Technology in Computer Science and Engineering (Artificial Intelligence and Data Engineering) applicable for 2024-25 batch (CBCS).

The curriculum was approved in the 73rd meeting of the Academic Council held on 14th March 2023 [Item No. 73/4].

| Discipline Core Courses | | | | | | |
|--------------------------|--|---|---|---|---|--------------|
| Course Code | Course Title | L | T | P | C | Prerequisite |
| BCSE339L | Data Engineering Fundamentals | 3 | 0 | 0 | 3 | NIL |
| BCSE339P | Data Engineering Fundamentals Lab | 0 | 0 | 2 | 1 | NIL |
| Specialization Electives | | | | | | |
| BCSE433L | Cloud Platforms and Services | 2 | 0 | 0 | 2 | BCSE303L |
| BCSE433P | Cloud Platforms and Services Lab | 0 | 0 | 2 | 1 | BCSE303L |
| BCSE434L | Generative Artificial Intelligence and Large Language Models | 2 | 0 | 0 | 2 | BCSE306L |
| BCSE434P | Generative Artificial Intelligence and Large Language Models Lab | 0 | 0 | 2 | 1 | BCSE306L |
| BCSE435L | Time Series Analysis and Forecasting Techniques | 2 | 0 | 0 | 2 | BCSE339L |
| BCSE435P | Time Series Analysis and Forecasting Techniques Lab | 0 | 0 | 2 | 1 | BCSE339L |
| BCSE436L | Data Visualization and Analytics | 3 | 0 | 0 | 3 | BCSE339L |
| BCSE436P | Data Visualization and Analytics Lab | 0 | 0 | 2 | 1 | BCSE339L |

(Annexure 42)

The Academic Council considered and approved the same.

78/44 To consider and approve the course contents for the courses of Bachelor of Technology in Computer Science and Engineering (Artificial Intelligence and Data Engineering).

The curriculum was approved in the 77th meeting of the Academic Council held on 13th March 2025 [Item No. 77/4.23].

| Course Code | Course Title | L | T | P | C | Prerequisite |
|---------------------------|--|---|---|---|---|--------------|
| Professional Core Courses | | | | | | |
| Programme Core | | | | | | |
| BACSE103 | Computation Structures | 3 | 0 | 2 | 4 | NIL |
| BACSE104 | Structured and Object-Oriented Programming | 2 | 0 | 4 | 4 | NIL |
| BACSE105 | Data Structures and Algorithms | 3 | 0 | 2 | 4 | NIL |
| BACSE106 | Operating Systems | 3 | 0 | 2 | 4 | NIL |
| BACSE201 | Models of Computation | 3 | 1 | 0 | 4 | NIL |
| BACSE202 | Database Systems | 3 | 0 | 2 | 4 | NIL |
| BACSE203 | Computer Networks | 3 | 0 | 2 | 4 | NIL |
| BACSE204 | Software Engineering | 3 | 0 | 2 | 4 | NIL |
| BACSE206 | Foundations of Artificial Intelligence | 3 | 1 | 0 | 4 | NIL |

| | | | | | | | |
|---|--|---|---|---|---|----------|--------------|
| | BAMAT205 | Discrete Mathematics and Linear Algebra | 3 | 1 | 0 | 4 | BAMAT101 |
| Concentrations | | | | | | | |
| Artificial Intelligence and Data Engineering | | | | | | | |
| BACSE207 | Data Engineering | 3 | 1 | 0 | 4 | NIL | |
| BACSE317 | Data Visualization and Analytics | 3 | 0 | 2 | 4 | NIL | |
| BACSE318 | Machine Learning | 3 | 0 | 2 | 4 | NIL | |
| (Annexure 43) | | | | | | | |
| The Academic Council considered and approved the same. | | | | | | | |
| 78/45 | To consider and approve the course contents for the courses of Bachelor of Technology in Computer Science and Engineering (Cybersecurity). | | | | | | |
| The curriculum was approved in the 77th meeting of the Academic Council held on 13th March 2025 [Item No. 77/4.24]. | | | | | | | |
| | Course Code | Course Title | L | T | P | C | Prerequisite |
| Professional Core Courses | | | | | | | |
| Programme Core | | | | | | | |
| BACSE103 | Computation Structures | 3 | 0 | 2 | 4 | NIL | |
| BACSE104 | Structured and Object-Oriented Programming | 2 | 0 | 4 | 4 | NIL | |
| BACSE105 | Data Structures and Algorithms | 3 | 0 | 2 | 4 | NIL | |
| BACSE106 | Operating Systems | 3 | 0 | 2 | 4 | NIL | |
| BACSE201 | Models of Computation | 3 | 1 | 0 | 4 | NIL | |
| BACSE202 | Database Systems | 3 | 0 | 2 | 4 | NIL | |
| BACSE203 | Computer Networks | 3 | 0 | 2 | 4 | NIL | |
| BACSE204 | Software Engineering | 3 | 0 | 2 | 4 | NIL | |
| BACSE205 | Fundamentals of Artificial Intelligence and Machine Learning | 3 | 0 | 2 | 4 | NIL | |
| BAMAT205 | Discrete Mathematics and Linear Algebra | 3 | 1 | 0 | 4 | BAMAT101 | |
| Concentrations | | | | | | | |
| Cybersecurity | | | | | | | |
| BACSE319 | Cryptography and Network Security | 3 | 0 | 2 | 4 | NIL | |
| BACSE320 | Penetration Testing and Vulnerability Assessment | 3 | 0 | 2 | 4 | NIL | |
| BACSE321 | Cyber Crime and Forensics | 3 | 0 | 2 | 4 | NIL | |
| BACSE322 | Malware Analysis and Mitigation Techniques | 3 | 0 | 2 | 4 | NIL | |
| BACSE323 | Artificial Intelligence for Cybersecurity | 3 | 1 | 0 | 4 | NIL | |
| (Annexure 44) | | | | | | | |
| The Academic Council considered and approved the same. | | | | | | | |
| 78/46 | To consider and approve the course contents for the courses of Master of Technology in Computer Science and Engineering (Cybersecurity). | | | | | | |
| The curriculum was approved in the 77th meeting of the Academic Council held on 13th March 2025 [Item No. 77/7]. | | | | | | | |

| Course Code | Course Title | L | T | P | C | Prerequisite |
|--------------------------------------|---|---|---|----|----|--------------|
| University Core Courses | | | | | | |
| MACSE698 | Internship I/ Dissertation I | 0 | 0 | 20 | 10 | NIL |
| MACSE699 | Internship II/ Dissertation II | 0 | 0 | 20 | 10 | NIL |
| Professional Core Courses | | | | | | |
| MACSE511 | Data Structures and Algorithms | 3 | 0 | 2 | 4 | NIL |
| MACSE512 | Operating Systems | 3 | 0 | 2 | 4 | NIL |
| MACSE513 | Computer Networks | 3 | 0 | 2 | 4 | NIL |
| MACSE514 | Database Systems | 3 | 0 | 2 | 4 | NIL |
| MACSE515 | Cybersecurity | 3 | 1 | 0 | 4 | NIL |
| MACSE516 | Cloud Security and Privacy | 3 | 1 | 0 | 4 | NIL |
| Professional Elective Courses | | | | | | |
| MACSE614 | Cryptography | 3 | 0 | 2 | 4 | NIL |
| MACSE615 | Machine Learning for Cybersecurity | 3 | 0 | 2 | 4 | NIL |
| MACSE616 | Secure and Resilient Software Development | 3 | 1 | 0 | 4 | NIL |
| MACSE617 | Cyber Law and Ethics | 3 | 0 | 0 | 3 | NIL |
| MACSE618 | Cyber Threat Intelligence | 3 | 0 | 0 | 3 | NIL |
| MACSE619 | Network Forensics | 3 | 0 | 0 | 3 | NIL |
| MACSE620 | Information Security and Risk Management | 3 | 1 | 0 | 4 | NIL |
| MACSE621 | Blockchain Technologies | 3 | 0 | 0 | 3 | NIL |

(Annexure 45)

The Academic Council considered and approved the same.

78/47 To consider and approve the course contents for the courses of Bachelor of Technology in Mechanical Engineering, Bachelor of Technology in Mechanical Engineering (Electric Vehicles) and Bachelor of Technology in Mechanical Engineering [Smart Manufacturing].

The curriculum was approved in the 77th meeting of the Academic Council held on 13th March 2025 [Item No. 77/4.20, 21].

| Professional Core Courses | | | | | | |
|----------------------------------|--------------------------------------|---|---|---|---|--------------|
| Programme Core | | | | | | |
| Course Code | Course Title | L | T | P | C | Prerequisite |
| BAMEE101 | Manufacturing Processes | 3 | 0 | 2 | 4 | NIL |
| BAMEE201 | Mechanics of Materials | 2 | 1 | 2 | 4 | BAPHY101 |
| BAMEE205 | Engineering Innovation and Modelling | 1 | 1 | 4 | 4 | NIL |

(Annexure 46)

The Academic Council considered and approved the same.

78/48 To consider and approve the course contents for the courses of Master of Technology in Smart Manufacturing.

The curriculum was approved in the 77th meeting of the Academic Council held on 13th March 2025 [Item No. 77/6].

| Professional Core Courses | | | | | | |
|---|---|---|---|---|---|--------------|
| Course Code | Course Title | L | T | P | C | Prerequisite |
| MASMM501 | Digital Manufacturing | 3 | 0 | 2 | 4 | NIL |
| MASMM502 | Industrial Internet of Things and Cloud Computing | 3 | 0 | 2 | 4 | NIL |
| MASMM503 | Manufacturing Control and Automation | 3 | 0 | 2 | 4 | NIL |
| MASMM504 | Systems Modelling and Simulation | 3 | 0 | 2 | 4 | NIL |
| MASMM505 | Artificial Intelligence for Manufacturing | 3 | 1 | 0 | 4 | NIL |
| MASMM506 | Design for Additive Manufacturing | 3 | 0 | 2 | 4 | NIL |
| Professional Elective Courses | | | | | | |
| MASMM601 | Digital Supply Chain for Manufacturing | 3 | 1 | 0 | 4 | NIL |
| MASMM602 | Cybersecurity in Manufacturing | 3 | 1 | 0 | 4 | NIL |
| MASMM603 | Digital Twin for Smart Manufacturing | 3 | 1 | 0 | 4 | NIL |
| MASMM604 | Big Data Analytics in Manufacturing | 3 | 1 | 0 | 4 | NIL |
| MASMM605 | Advanced Materials Processing and Characterization | 3 | 0 | 2 | 4 | NIL |
| MASMM606 | Applied Robotics | 2 | 1 | 2 | 4 | NIL |
| MASMM607 | Sustainability and Circularity in Manufacturing | 3 | 0 | 0 | 3 | NIL |
| MASMM608 | Precision Engineering | 3 | 0 | 0 | 3 | NIL |
| (Annexure 47) | | | | | | |
| The Academic Council considered and approved the same. | | | | | | |
| Item 78/49 | To consider and approve the course contents for the courses of all 3 year UG programmes. | | | | | |
| Open Elective | | | | | | |
| Course Code | Course Title | L | T | P | C | Prerequisite |
| UHIN103L | Basic Hindi | 3 | 0 | 0 | 3 | NIL |
| UTAM102L | தமிழ் [Tamil] | 3 | 0 | 0 | 3 | NIL |
| (Annexure 48) | | | | | | |
| The Academic Council considered and approved the same. | | | | | | |
| Item 78/50 | To consider and approve the change in course content for the course of Research Programmes. | | | | | |
| Course Code | Course Title | L | T | P | C | Prerequisite |
| Research Methodology Course | | | | | | |
| PRES708L | ஆராய்ச்சி நெறிமுறைகள் [Research Methodology] | 3 | 1 | 0 | 4 | NIL |
| (Annexure 49) | | | | | | |
| The Academic Council considered and approved the same. | | | | | | |

| Item 78/51 | <p>To consider and approve the course content for the courses of Bachelor of Architecture (CBCS).</p> <table border="1" data-bbox="220 197 1479 331"> <thead> <tr> <th>Course Code</th> <th>Course Title</th> <th>L</th> <th>T</th> <th>P</th> <th>C</th> <th>Prerequisite</th> </tr> </thead> <tbody> <tr> <td colspan="7" style="text-align: center;">Programme Core Course</td> </tr> <tr> <td>BMAT103L</td> <td>Mathematics for Built Environment</td> <td>3</td> <td>0</td> <td>0</td> <td>3</td> <td>NIL</td> </tr> </tbody> </table> <p style="text-align: right;">(Annexure 50)</p> <p>The Academic Council considered and approved the same.</p> | Course Code | Course Title | L | T | P | C | Prerequisite | Programme Core Course | | | | | | | BMAT103L | Mathematics for Built Environment | 3 | 0 | 0 | 3 | NIL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------------|--|-------------|--------------|---|---|---------------|---|---------------|---------------------------------|--|--|--|--|--|--|----------|--|---|---|---|---|-----|--------------------------------------|--|--|--|--|--|--|----------|---------------------------------|---|---|---|---|-----|----------|---------------------------|---|---|---|---|-----|----------|---------------------------|---|---|---|---|-----|----------|----------------------|---|---|---|---|-----|----------|--------------------------------|---|---|---|---|-----|----------|-------------------------|---|---|---|---|-----|
| Course Code | Course Title | L | T | P | C | Prerequisite | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Programme Core Course | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BMAT103L | Mathematics for Built Environment | 3 | 0 | 0 | 3 | NIL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Item 78/52 | <p>To consider and approve the course contents for the courses of Master of Technology in Artificial Intelligence and Data Science in Collaboration with LTI Mindtree.</p> <p>The curriculum was approved in the 77th meeting of the Academic Council held on 13th March 2025 [Item No. 77/9].</p> <table border="1" data-bbox="220 739 1479 1288"> <thead> <tr> <th>Course Code</th> <th>Course Title</th> <th>L</th> <th>T</th> <th>P</th> <th>C</th> <th>Pre-Requisite</th> </tr> </thead> <tbody> <tr> <td colspan="7" style="text-align: center;">Professional Core Course</td> </tr> <tr> <td>MACSE501</td> <td>Data Structures and Algorithm Analysis</td> <td>3</td> <td>0</td> <td>2</td> <td>4</td> <td>NIL</td> </tr> <tr> <td colspan="7" style="text-align: center;">Professional Elective Courses</td> </tr> <tr> <td>MACSE608</td> <td>Generative Adversarial Networks</td> <td>3</td> <td>0</td> <td>2</td> <td>4</td> <td>NIL</td> </tr> <tr> <td>MACSE609</td> <td>Security for Data Science</td> <td>3</td> <td>0</td> <td>0</td> <td>3</td> <td>NIL</td> </tr> <tr> <td>MACSE610</td> <td>Image and Video Analytics</td> <td>3</td> <td>0</td> <td>2</td> <td>4</td> <td>NIL</td> </tr> <tr> <td>MACSE611</td> <td>Healthcare Analytics</td> <td>3</td> <td>0</td> <td>0</td> <td>3</td> <td>NIL</td> </tr> <tr> <td>MACSE612</td> <td>Graph Algorithms and Analytics</td> <td>3</td> <td>0</td> <td>0</td> <td>3</td> <td>NIL</td> </tr> <tr> <td>MACSE613</td> <td>Optimization Techniques</td> <td>3</td> <td>0</td> <td>0</td> <td>3</td> <td>NIL</td> </tr> </tbody> </table> <p style="text-align: right;">(Annexure 51)</p> <p>The Academic Council considered and approved the same.</p> | Course Code | Course Title | L | T | P | C | Pre-Requisite | Professional Core Course | | | | | | | MACSE501 | Data Structures and Algorithm Analysis | 3 | 0 | 2 | 4 | NIL | Professional Elective Courses | | | | | | | MACSE608 | Generative Adversarial Networks | 3 | 0 | 2 | 4 | NIL | MACSE609 | Security for Data Science | 3 | 0 | 0 | 3 | NIL | MACSE610 | Image and Video Analytics | 3 | 0 | 2 | 4 | NIL | MACSE611 | Healthcare Analytics | 3 | 0 | 0 | 3 | NIL | MACSE612 | Graph Algorithms and Analytics | 3 | 0 | 0 | 3 | NIL | MACSE613 | Optimization Techniques | 3 | 0 | 0 | 3 | NIL |
| Course Code | Course Title | L | T | P | C | Pre-Requisite | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Professional Core Course | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MACSE501 | Data Structures and Algorithm Analysis | 3 | 0 | 2 | 4 | NIL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Professional Elective Courses | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MACSE608 | Generative Adversarial Networks | 3 | 0 | 2 | 4 | NIL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MACSE609 | Security for Data Science | 3 | 0 | 0 | 3 | NIL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MACSE610 | Image and Video Analytics | 3 | 0 | 2 | 4 | NIL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MACSE611 | Healthcare Analytics | 3 | 0 | 0 | 3 | NIL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MACSE612 | Graph Algorithms and Analytics | 3 | 0 | 0 | 3 | NIL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MACSE613 | Optimization Techniques | 3 | 0 | 0 | 3 | NIL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Item 78/53 | <p>To consider and approve the course contents for the courses of Master of Technology in Artificial Intelligence and Machine Learning in Collaboration with LTI Mindtree.</p> <p>The curriculum was approved in the 77th meeting of the Academic Council held on 13th March 2025 [Item No. 77/9].</p> <table border="1" data-bbox="220 1724 1479 1892"> <thead> <tr> <th>Course Code</th> <th>Course Title</th> <th>L</th> <th>T</th> <th>P</th> <th>C</th> <th>Pre-Requisite</th> </tr> </thead> <tbody> <tr> <td colspan="7" style="text-align: center;">Professional Core Course</td> </tr> <tr> <td>MACSE501</td> <td>Data Structures and Algorithm Analysis</td> <td>3</td> <td>0</td> <td>2</td> <td>4</td> <td>NIL</td> </tr> </tbody> </table> <p style="text-align: right;">(Annexure 52)</p> <p>The Academic Council considered and approved the same.</p> | Course Code | Course Title | L | T | P | C | Pre-Requisite | Professional Core Course | | | | | | | MACSE501 | Data Structures and Algorithm Analysis | 3 | 0 | 2 | 4 | NIL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Course Code | Course Title | L | T | P | C | Pre-Requisite | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Professional Core Course | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MACSE501 | Data Structures and Algorithm Analysis | 3 | 0 | 2 | 4 | NIL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

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| Item 78/54 | <p>To consider and approve the change in component credit and introduction of new lab course and its course contents for the courses of Integrated Master of Technology in Computer Science and Engineering (Business Analytics) (CBCS).</p> <p>The curriculum was approved in the 73rd meeting of Academic Council meeting held on 14th March 2024 [Item No.73/61].</p> | | | | | | | | |
| Discipline Electives | | | | | | | | | |
| Course code | Course Title | Existing | | | | Proposed | | | |
| | | L | T | P | C | L | T | P | C |
| IBSA408L | Large Language Models | 3 | 0 | 0 | 3 | 2 | 0 | 0 | 2 |
| IBSA408P | Large Language Models Lab | | | | | 0 | 0 | 2 | 1 |
| (Annexure 53) | | | | | | | | | |
| The Academic Council considered and approved the same. | | | | | | | | | |

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|---|---|---|---|---|---|--------------|
| Item 78/55 | <p>To consider and approve the course content for courses of Bachelor of Technology in Mechatronics and Automation.</p> <p>The curriculum was approved in the 77th meeting of the Academic Council held on 13th March 2025 [Item No. 77/4.22].</p> | | | | | |
| Course Code | Course Title | L | T | P | C | Prerequisite |
| Professional Core Courses | | | | | | |
| Programme Core | | | | | | |
| BABMH101 | Electronic Systems | 3 | 0 | 2 | 4 | NIL |
| BABMH102 | Mechanical System Design and Analysis | 3 | 1 | 0 | 4 | BAPHY101 |
| BABMH201 | Electric Drives and Fluid Power | 3 | 0 | 2 | 4 | NIL |
| (Annexure 54) | | | | | | |
| The Academic Council considered and approved the same. | | | | | | |

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|----------------------------------|--|---|---|---|---|---------|
| Item 78/56 | <p>To consider and approve the course content for the courses of Bachelor of Technology in Fashion Technology.</p> <p>The curriculum was approved in the 77th meeting of the Academic Council held on 13th March 2025 [Item No. 77/4.19].</p> | | | | | |
| Course Code | Course Title | L | T | P | C | Pre-req |
| Professional Core Courses | | | | | | |

| Programme Core | | | | | | |
|----------------|------------------------------|---|---|---|---|-----|
| BAFST101 | Fashion Design Concepts | 3 | 0 | 2 | 4 | NIL |
| BAFST102 | Raw Materials for Fashion | 4 | 0 | 0 | 4 | NIL |
| BAFST103 | Garment Production Machinery | 2 | 0 | 4 | 4 | NIL |

(Annexure 55)

The Academic Council considered and approved the same.

Item 78/57 To consider and approve the course contents for the courses of Integrated Master of Technology In Computer Science and Engineering (Business Analytics) applicable for 2024-2025 batch (CBCS).

The curriculum was approved in the 73rd meeting of the Academic Council held on 14th March 2024 [Item No.73/61]

| Course Code | Course Title | L | T | P | C | Prerequisite |
|---------------------------------------|--|---|---|---|---|--------------|
| Basic Sciences and Mathematics | | | | | | |
| IMAT206L | Linear Algebra and Transform Techniques | 3 | 1 | 0 | 4 | NIL |
| IMAT207L | Optimization Techniques | 3 | 1 | 0 | 4 | NIL |
| Discipline Core Courses | | | | | | |
| IBSA302L | Artificial Intelligence | 3 | 0 | 0 | 3 | NIL |
| IBSA303L | Information Visualization | 3 | 0 | 0 | 3 | NIL |
| IBSA303P | Information Visualization Lab | 0 | 0 | 2 | 1 | NIL |
| IBSA304L | Machine Learning | 3 | 0 | 0 | 3 | NIL |
| IBSA304P | Machine Learning Lab | 0 | 0 | 2 | 1 | NIL |
| IBSA401L | Deep Learning | 3 | 0 | 0 | 3 | IBSA304L |
| IBSA401P | Deep Learning Lab | 0 | 0 | 2 | 1 | IBSA304L |
| Discipline Electives | | | | | | |
| IBSA308L | Cloud Computing | 3 | 0 | 0 | 3 | NIL |
| IBSA308P | Cloud Computing Lab | 0 | 0 | 2 | 1 | NIL |
| IBSA309L | User Interface and User Experience Design | 3 | 0 | 0 | 3 | NIL |
| IBSA403L | Image and Video Analytics | 3 | 0 | 0 | 3 | NIL |
| IBSA403P | Image and Video Analytics Lab | 0 | 0 | 2 | 1 | NIL |
| IBSA404L | Predictive Analytics with case Studies | 3 | 0 | 0 | 3 | NIL |
| IBSA404P | Predictive Analytics with case Studies Lab | 0 | 0 | 2 | 1 | NIL |
| IBSA405L | NoSQL Database | 3 | 0 | 0 | 3 | ISWE103L |
| IBSA405P | NoSQL Database Lab | 0 | 0 | 2 | 1 | ISWE103L |
| IBSA407L | Forensics Analytics | 3 | 0 | 0 | 3 | NIL |
| IBSA408L | Large Language Models | 2 | 0 | 0 | 2 | NIL |
| IBSA408P | Large Language Models Lab | 0 | 0 | 2 | 1 | NIL |
| IBSA411L | Sequential and Spatial data mining | 3 | 0 | 0 | 3 | NIL |
| IBSA412L | Health Care Analytics | 3 | 0 | 0 | 3 | NIL |
| IBSA412P | Health Care Analytics Lab | 0 | 0 | 2 | 1 | NIL |

(Annexure 56)

The Academic Council considered and approved the same.

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| 78/58 | <p>Any other item:</p> <p>Minor in Quantum Technologies to be offered to the students of Bachelor of Technology programmes.</p> <p>The Academic Council considered and approved the same.</p> |
| 78/59 | <p>Suggestions:</p> <ol style="list-style-type: none"> 1. It is suggested to offer Japanese course with certification 1 and also suggested to offer this course to non-engineering students also. 2. It was suggested to incorporate the Outcome Based Education process on V-TOP for all the programmes from the forthcoming semester. |
| 78/60 | <p>Vote of thanks</p> <p>The meeting ended with vote of thanks by the Registrar.</p> |

Dr. M. Anthony Xavier
Dean, Academics
Vellore Institute of Technology

Dr. Jayabarathi. T
Secretary, Academic Council
Registrar, Vellore Institute of Technology

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