SIDDAGANGA INSTITUTE OF TECHNOLOGY, TUMAKURU

(An autonomous institution affiliated to VTU, Belagavi, Approved by AICTE, New Delhi, Accredited by NAAC with 'A++' grade & ISO 9001:2015 Certified)

Proceedings of the 46th Academic Council Meeting held on 04-07-2026 in the Boardroom, Birla Auditorium, SIT Campus from 10:00 AM.

Members present:

1.	Prof. S.V. Dinesh	Chairman
2.	Dr. Sangappa S.B.	Member, VTU Nominee
3.	Prof. Mahadeva Prasanna	Member, GC Nominee
4.	Dr. M.H. Kori	Special Invitee, GC Nominee
5.	Dr. Rajan M A	Member, GC Nominee
6.	Mr. Girish H R	Member, GC Nominee
7.	Prof. K.V. suresh	Member, Dean Student Welfare
8.	Prof. A.S. Poornima	Member, CoE
9.	Dr. T.S. Sagar	Member, IQAC Coordinator
10.	Prof. Pavan Kumar Emani	Member, HoD, CV
11.	Prof. Virupaxi Auradi	Member, & HoD, ME
12.	Prof. Rashmi	Member, HoD, EE
13.	Prof. R. Kumaraswamy	Member, HoD, EC
14.	Prof. Meyyappan N.	Member, HoD, CH
15.	Prof. Latha H.K.E.	Member, HoD, EI
16.	Prof. G.V. Prabhushankar	Member, HoD, IM
17.	Prof. N.R. Sunitha	Member, HoD, CS
18.	Prof. R. Aparna	Member, HoD, IS
19.	Prof. K. Viswanath	Member, HoD, ET
20.	Prof. B.S. Gowrishankar	Member, HoD, BT
21.	Dr. P. Madhumathi	Member, HoD, AT
22.	Dr. H.M. Suresh Kumar	Member, HoD, Physics
23.	Dr. H.S. Lalithamba	Member, HoD, Chemistry
24.	Dr. M. Siddalinga Prasad	Member, HoD (I/c), Maths
25.	Dr. M. Ajoy Kumar	Member, HoD, MBA
26.	Dr. B.G. Premasudha	Member, HoD, MCA
27.	Dr. C. Shashishekar	Member, Principal Nominee
28.	Dr. M.B. Nirmala	Member, Principal Nominee
29.	Dr. T.M. Kiran kumar	Member, Principal Nominee
30.	Dr. Chowdari K.K.	Invitee, Dean (I/c), T&P
31.	Dr. Shivakumaraiah	Invitee, CEO, SIT & Jt. Secretary-SSES
32.	Sri B. Gangadharaiah	Invitee, Estate Officer, SIT
33.	Dr. C.T. Manjunath	Invitee, Asst. Professor, ME
34.	Mr. Vivek J.	Student Representative, VI Sem, ME
35.	Ms. Palguni V. Kumar	Student Representative, VI Sem, CSE
36.	Dr. H.S. Jayanna	Member Secretary

Members sought the leave of absence:

1. Dr. Ashwath M.U. Member, VTU Nominee
2. Dr. Suresh D.S. Member, VTU Nominee
3. Dr. U. Chandrashekar Member, GC Nominee

Dr. H.S. Jayanna, Dean Academic & Member Secretary welcomed Prof. S.V. Dinesh, Principal and requested him to Chair the session. Prof. S.V. Dinesh welcomed the members of the Academic Council, all the Chairpersons of BoS, Faculty and Student representatives.

Prof. S.V. Dinesh, Principal and Chairman of Academic Council Chaired the meeting and conducted the proceedings.

AGENDA AND DISCUSSION

46.1 Reading and recording the proceedings of the previous meeting of the council

Dr. H.S. Jayanna, Dean Academic placed before the council, the proceedings of the 45th Academic Council Meeting held on 12-07-2025.

As it was previously circulated, and as there were no comments from the members, the council approved as read and recorded.

46.2 Presentation of action taken report on suggestions given in the 45th Academic Council Meeting held on 12-07-2025.

Dr. H.S Jayanna, Dean Academic placed before the council the Action Taken Report for the suggestions given in the 45th Academic Council Meeting. **(Please refer page numbers from 23 to 136 in Agenda Book).**

46.3 Approval for

- **i) Modifications in syllabus of UG - I & II semesters [2025 Scheme]**
- **ii) Scheme for UG - III to VIII semesters [2025 Scheme]**
- **iii) Syllabus for UG - III & IV semesters [2025 Scheme]**
- **iv) List of MOOCs (NPTEL) [OE & PE for UG - VIII Semester]**
- **v) Modifications in Syllabus for UG - V to VIII semester [2022 Scheme]**
- **vi) New Open/Professional Elective Courses to be offered from the AY 2026-27**
- **vii) Scheme for PG - I to IV semesters [2026 Scheme]**
- **viii) Syllabus for PG - I & II semesters [2026 Scheme]**
- **ix) Modifications in syllabus of PG - III to IV semesters [2025 Scheme]**
- **x) List of MOOCs for PG**

The Schemes of Teaching, Examination and Syllabus for the following Departments which were circulated earlier were presented by the respective Chairpersons of the BoS before the Academic Council.

	Department	Pg No. in Agenda Book
i	Civil Engineering	139 – 422
ii	Mechanical Engineering	423 – 512
iii	Electrical and Electronics Engineering	513 – 602
iv	Electronics and Communication Engineering	603 – 674
v	Chemical Engineering	675 – 762
vi	Electronics and Instrumentation Engineering	763 – 916
vii	Industrial Engineering and Management	917 – 984
viii	Computer Science and Engineering	985 – 1278
ix	Information Science and Engineering	1279 – 1374
x	Electronics and Telecommunication Engineering	1375 – 1484
xi	Biotechnology	1485 – 1548
xii	Mathematics	1549 – 1570
xiii	M.B.A.	1571 – 1626

The Academic Council approved the Schemes of Teaching, Examination and Syllabus as presented in the Agenda Book with the following suggestions **(Please refer page numbers from 139 to 1626 in Agenda Book).**

General Suggestions on the curriculum:

1) The Academic Council suggested to introduce a domain-specific Indian Knowledge System (IKS) course instead of a general Indian Knowledge System course for UG students across all branches. This would enable students to understand the relevance and applications of Indian Knowledge Systems within their respective disciplines.
2) Dr. Rajan M.A. and Mr. Gireesh H.R. suggested to introduce a course on 'Safety Engineering' for students of Mechanical Engineering, Industrial Engineering and Management, Chemical Engineering and Civil Engineering programmes. This course would help students to understand industrial and field safety practices, safety regulations, and precautionary measures essential for professional practice.
3) Dr. Rajan M.A. suggested to organize an Institute-level Project Exhibition to showcase students' interdisciplinary and major projects. This initiative would help junior students to gain insights into innovative project ideas, understand emerging technologies and get motivated to undertake impactful projects in their respective fields. Prof. S.V. Dinesh informed the IPMC (Institute Project Monitoring Committee) to make necessary arrangements for organizing the project exhibition in the future and award best projects in each discipline with attractive cash prizes.
4) Mr. Girish H.R. suggested to approach M/s. Bharat Forge Limited, Pune, Maharashtra for opportunities related to internships and interdisciplinary projects. He further suggested to explore the establishment of a Centre of Excellence (CoE)

to facilitate collaborative activities in the areas of automotive, aerospace, energy and forging technologies.

5) Mr. Girish H.R. suggested to start Toastmaster club and conduct some events to the students as soon as possible.

6) Prof. S.V. Dinesh suggested to introduce the MS Project (Microsoft Project) tool in project management courses across all disciplines to help students to understand project planning, scheduling, resource allocation, progress monitoring and effective project management practices.

Suggestions given on curriculum of Dept. of Civil Engineering:

1) Mr. Girish H.R. and Dr. Rajan M.A. suggested to include AQI (Air Quality Index) evaluation in the Environmental Engineering course to help students to understand air quality assessment and its significance in environmental monitoring and management. Further, they suggested to make arrangement to display AQI of SIT campus in front of SIT main gate.

2) Mr. Girish H.R. and Dr. Rajan suggested to introduce some aspects of data centre construction into the curriculum of a relevant course. They also suggested to invite experts from industry to deliver guest lectures on this topic to provide students with practical insights and exposure to current industry practices.

3) Mr. Girish H. R. suggested to make the Railway, Airport, Harbor and Tunnel Engineering course as a core course instead of a professional elective, as this would better equip students with knowledge of essential transportation infrastructure and enhance their career opportunities in the civil engineering sector.

4) Mr. Girish H.R. suggested to invite Mr. Bhojaraj to deliver a talk on "Space Infrastructure" to the faculty members and students.

Suggestions given on curriculum of Dept. of Mechanical Engineering:

1) Dr. Rajan M.A. suggested to introduce a core course on AI for Mechanical Engineering for second-year students. The course would help students to develop a strong foundation in AI concepts relevant to mechanical engineering which would them to use the concepts in higher-semester courses, projects works and internship activities.

2) Dr. Rajan M.A. suggested to incorporate case studies into the Professional Elective course "Elements of Aeronautics" for sixth-semester students. He mentioned that the inclusion of case studies would help students to understand the practical relevance and importance of the course.

Suggestions given on curriculum of Dept. of Electrical & Electronics Engineering:

1) Dr. Rajan M.A. suggested to offer 'Battery Engineering' as a separate course for Electrical and Electronics students, as it is of significant relevance to the rapidly growing energy storage and e-mobility sectors.
2) Dr. Rajan M.A. suggested to introduce an Electromagnetic Interference (EMI) course for Electrical and Electronics students, considering its growing importance in modern electrical, electronic, and communication systems.
3) Dr. Rajan M.A. suggested to introduce topics related to Nuclear Power Plant generation, Superconductor and fly wheel-based UPS in any of the relevant course. Understanding of these emerging technologies is essential for students to keep pace with advancements in the power and energy sectors.
4) Dr. Rajan M.A. suggested to introduce a course on Generative AI for Electrical Engineering students as it is becoming increasingly important in modern engineering applications, including intelligent automation, smart systems, data analysis and design optimization.

Suggestions given on curriculum of Dept. of Electronics & Communication Engg:

1) Dr. Rajan M.A. suggested to introduce a course on ‘Neuromorphic Engineering’ for Electronics and Communication Engineering students, as the subject is highly relevant to emerging technologies such as artificial intelligence, edge computing, and next-generation intelligent electronic systems.
2) Dr. Rajan M.A. and Dr. Mahadeva Prasanna suggested to introduce 'Quantum Sensing' as a topic in one of the relevant courses for Electronics and Communication Engineering students, as it is an emerging technology with significant potential applications in advanced sensing and communication systems.

Suggestions given on curriculum of Dept. of Chemical Engineering:

1) Dr. Rajan M.A. and Girish H. R. suggested to include topics such as oil spill management, chemical warfare, and the ethical use of chemistry in the ‘Safety Engineering’ course for Chemical Engineering students to enhance their awareness of industrial safety, environmental protection, and professional ethics..
2) Dr. Rajan suggested to introduce a core course titled "AI for Chemical Engineering" for Chemical Engineering students, as artificial intelligence is increasingly being applied across various Chemical Engineering disciplines to improve efficiency and accuracy. He further suggested to include topics related to Digital Twins as part of the AI for Chemical Engineering course..
3) Dr. Rajan M.A. and Mr. Girish H R suggested to introduce a topic on Chemical Graphs in the Mathematics course for Chemical Engineering students. The topic should cover concepts such as graph theory, molecular topology, molecular

structures, and the representation of the physical and chemical properties of compounds. They emphasized that this knowledge is essential for understanding molecular modelling, cheminformatics, and AI-driven applications in Chemical Engineering.

4) Dr. Rajan M.A. suggested to offer Battery Engineering as a separate course for Chemical Engineering students, as it is an emerging and rapidly growing field with significant applications in electric vehicles, renewable energy storage, and sustainable energy technologies.
5) Dr. Rajan M.A. suggested to include topics on Quality Control and Reliability Engineering in the relevant course(s) for Chemical Engineering students, as these concepts are essential for ensuring product quality, process consistency, operational safety, and compliance with industrial standards.
6) Dr. Rajan M.A. and Mr. Girish H.R. suggested to introduce a course on Chemical Sensors for Chemical Engineering students, as this is an emerging area with wide-ranging applications in process monitoring, environmental monitoring, healthcare, industrial automation, and safety systems.

Suggestions given on curriculum of Dept. of Electronics & Instrumentation Engg:

1) Dr. Rajan suggested to introduce a course on Automation and Robotics for Electronics and Instrumentation Engineering students, as automation and robotics technologies are increasingly being adopted across various industries.
2) Dr. Rajan suggested to introduce a topic on LADAR (Laser Detection and Ranging) in one of the relevant courses for Electronics and Instrumentation Engineering students. This would help students to understand the principles, applications, and implementation of LADAR technology in areas such as autonomous systems, industrial automation, robotics, remote sensing, and advanced instrumentation.
3) Dr. Rajan and Mr. Girish H.R. suggested to generate real-time datasets using sensors and measurement devices for experimental and research work instead of relying on readily available datasets. This would provide greater control over data quality, improve the reliability of research outcomes, and offer students hands-on experience in data acquisition and analysis.
4) Dr. Rajan suggested to introduce a course on Neuromorphic Engineering for PG students in VLSI Design and Embedded Technology, as the course is highly relevant to emerging technologies such as artificial intelligence, edge computing, and next-generation intelligent electronic systems.

Suggestions given on curriculum of Depts. of Computer Science & Engineering and Information Science & Engineering

1) Dr. Rajan suggested to introduce a course on "AI for Coding" for CSE and ISE students. This course would enable students to understand the applications of

artificial intelligence in software development, including AI-assisted programming, code generation, code optimization, debugging, and the use of intelligent tools to improve coding efficiency and productivity.

2) Dr. Rajan suggested to introduce a course on "AI Assurance" for CSE and ISE students. This course is highly relevant in ensuring the reliability, security, transparency, fairness, and ethical use of artificial intelligence systems to develop trustworthy and responsible AI applications.
3) Dr. Rajan suggested to introduce a course on "Cyber Security for AI and AI for Cyber Security" for CSE and ISE students. This course would help students to understand the integration of artificial intelligence and cyber security techniques for threat detection, vulnerability assessment, and security enhancement.
4) Dr. Rajan suggested to introduce AI-related topics in the course "Database Management System (DBMS)". This would help students to design, manage, and optimize AI-enabled databases using artificial intelligence techniques.

Suggestions given on curriculum of Dept. of Biotechnology:

1) The Academic Council suggested to offer "AI and Drug Discovery" as a mandatory course for Biotechnology students rather than offering it as a professional elective. This is required to make the students to understand the application of artificial intelligence in modern drug discovery, computational biology, and biotechnology research.

Agenda 46.4 Approval of Board of Examiners of all the UG and PG programmes for the Academic Year 2026-27

Dean Academic presented the various Boards of Examiners for all the UG and PG programs for the academic year 2026-27. The Council approved the Board of Examiners of all the UG and PG programmes **(Please refer page numbers from 1627 to 1638 in Agenda Book).**

Agenda 46.5 Ratification of approval taken through online circulation for

i) I–IV semesters Scheme of Teaching, Examination and Syllabus for 2025-26 batch of MBA, MCA & MTech programs.

ii) I & II Semester Scheme and Syllabus for UG programmes from the Academic Year 2025-26.

The Council ratified the approval sought through email circulation for the above (Circulated through emails on 16-09-2025 and 13-10-2025)

Agenda 46.6 Approval for conducting supplementary semester examination for the VIII semester students who have obtained 'F' grade in the NPTEL courses and are having required CIE marks in the AY 2025-26.

Dean Academic placed before the Academic Council to accord permission to conduct supplementary semester examination for the VIII semester students who have obtained 'F' grade in the NPTEL courses and are having required CIE marks in the AY 2025-26. After deliberate discussion, the Council accorded approval to conduct supplementary semester examination for VIII Semester students in proctored method.

Agenda 46.7: Presentation of VIII Semester Result Analysis for Academic Year 2025-26 and its approval

The Controller of Examinations presented result analysis of VI and VIII Semester of UG Programs for the Academic Year 2025-26 for which approval was taken earlier through email circulation.

The Principal thanked all the members for their valuable suggestions & guidance and approving the syllabus for improving academic standards of the Institute. He also thanked the HoDs, BoS members and faculty members for their hard work in preparing the scheme and syllabus.

16/07/2026

Prof. S.V. DINESH
Principal and
Chairman, Academic Council