



**CHAITANYA BHARATHI
INSTITUTE OF TECHNOLOGY**

An Autonomous Institute | Affiliated to Osmania University
Kokapet Village, Gandipet Mandal, Hyderabad, Telangana-500075, www.cbti.ac.in



COMMITTED TO
RESEARCH,
INNOVATION AND
EDUCATION

47
years

Department of Mechanical Engineering

28.04.2026

Minutes of the Board of Studies (BoS) Meeting of Mechanical Engineering Department, Chaitanya Bharathi Institute of Technology (A), Hyderabad held on 28.04.2026 at 10.30am in HOD Conference hall.

Members Present:

1. Prof. N. Venkat Reddy-Professor, Department of Mechanical & Aerospace Engineering, IIT Hyderabad.
2. Dr. Y. Ravi Kumar-Professor, Department of Mechanical Engineering, NIT Warangal.
3. Prof. M. Chandra Sekhar Reddy-Professor, University College of Engineering, Osmania University, Hyderabad.
4. Dr. K. Ramesh Kumar-Scientist/Industry Expert, BRAHMOS, DRDL, Hyderabad.
5. Dr. C. Satyanarayan Raju-Scientist, DRDL, Hyderabad.
6. Bussa Rathna Spandhan-Industry Representative (Alumnus), RNTBCI Automobile, Chennai.
7. Mr. VR Sunil Kumar-Industry Representative, Ramtec Industries, Hyderabad.
8. Dr. S. Satyanarayana-Technical Expert, APLMEC Systems, Hyderabad.
9. Mr. P. Chandra Sekhar-Industry Expert, Tecniq Design Group, Hyderabad.
10. Dr. G. Laxmaiah-Head & Chairperson, Department of Mechanical Engineering, CBIT (A), Hyderabad.
11. Dr. P.V.R. Ravindra Reddy-Professor, Department of Mechanical Engineering, CBIT (A), Hyderabad.
12. Dr. P. Prabhakar Reddy-Professor, Department of Mechanical Engineering, CBIT (A), Hyderabad.
13. Dr. Md. Aleem Pasha-Associate Professor, Department of Mechanical Engineering, CBIT (A), Hyderabad.
14. Sri D. Ravi-Assistant Professor, Department of Mechanical Engineering, CBIT (A), Hyderabad.

Agenda:

1. Finalization and Approval of R-26 Scheme from I to VIII Semester of B.E. (Mechanical).
2. Finalization and Approval of the syllabus of I & II Semester B.E. (Mechanical) Courses of R-26 Curriculum.
3. Finalization and Approval of the R-26 Scheme from I to IV Semester of M.E. (CAD/CAM).
4. Finalization and Approval of the syllabus of I & II Semester M.E. (CAD/CAM) Courses of R-26 Curriculum.
5. Approval of the Panel of Question Paper Setters, Evaluators, and External Examiners for AY 2026–2027.
6. Updates on Research, Teaching, Extension, and other academic activities.
7. Any other item with the permission of chair.

Meeting Minutes:

The Chairperson, Dr. G. Laxmaiah, welcomed all the members and briefed the committee regarding the significance of revising the curriculum in line with AICTE model curriculum guidelines, NBA requirements, NEP recommendations, Industry 5.0 trends, AI integration, and emerging technologies relevant to Mechanical Engineering education.

Agenda 1: Finalization and Approval of R-26 Scheme from I to VIII Semester of B.E. (Mechanical)

1. The proposed R-26 curriculum structure from I to VIII Semester was presented and discussed in detail.
2. A new course AI Foundations and applications is proposed in the first year to provide foundational exposure to Artificial Intelligence concepts.
3. A proposal for introducing Python Programming Workshop with AI-based content was presented.
4. Dr. K. Ramesh Kumar suggested revising the title of *Mechanical and Material Science Theory & Laboratory* to a more suitable and physics-oriented course title.
5. Prof. N. Venkat Reddy suggested strengthening Matrix Theory concepts in Mathematics courses.
6. A new non-credit course Aptitude & Problem Solving Skills – I (APSS-I) is introduced to improve placement readiness.
7. A new non-credit course Aptitude & Problem Solving Skills – II (APSS-II) is introduced in higher semesters for further enhancement of analytical and placement skills.
8. The course Finite Element Analysis is revised as Computational Methods for Mechanical Systems (Theory & Laboratory) to strengthen simulation-driven learning and interdisciplinary exposure.

9. Mini Project is introduced in VI Semester to enhance experiential learning and project-based education.
10. The project structure is revised as:
 - Mini Project – VI Semester
 - Project Part-I – VII Semester
 - Project Part-II – VIII Semester
11. Dr. K. Ramesh Kumar suggested integrating Technical Seminar with Project Part-I.
12. Sri P.Chandra Sekhar recommended avoiding duplication of seminar-based activities across semesters.
13. Dr. P.V.R. Ravindra Reddy observed that Project Part-I itself includes seminar presentation components and hence Technical Seminar becomes redundant.
14. The committee resolved that Technical Seminar may be removed from the curriculum structure.
15. Industry Internship and Industrial Visit components were discussed for strengthening industry interaction and experiential learning. Hence it is concluded to introduce a mandatory course “Industry visit” with no credit in V Semester

Agenda 2: Finalization and Approval of the Syllabus of I & II Semester B.E. (Mechanical) Courses of R-26 Curriculum

1. The proposed syllabus of I & II Semester courses was presented and discussed.
2. Sri P.Chandra Sekhar suggested the use of advanced microcontroller platforms such as STM32 Boards instead of conventional Arduino-based kits in R&D Laboratory.
3. The syllabus for Digital Fabrication & Workshop was presented and discussed. Sri P.Chandra Sekhar enquired about the drawing skill background of students entering the course. Dr. P.V.R. Ravindra Reddy clarified that the course mainly provides introductory exposure to:
 - 3D Printing
 - Additive Manufacturing

The proposed syllabus for I & II Semester courses was approved with minor modifications.

Agenda 3: Finalization and Approval of the R-26 Scheme from I to IV Semester of M.E. (CAD/CAM)

1. The proposed R-26 scheme for M.E. (CAD/CAM) was presented and discussed.
2. Dr. K. Ramesh Kumar enquired regarding the benchmark institutions considered for curriculum design. Benchmarking with reputed institutions and universities was explained by the Chair, BoS,MED.
3. The committee discussed inclusion of advanced interdisciplinary domains such as:

- Digital Twin Technology
- Machine Learning for Intelligent Systems
- Industry 5.0 applications

The proposed R-26 scheme for M.E. (CAD/CAM) was approved.

Agenda 4: Finalization and Approval of the Syllabus of I & II Semester M.E. (CAD/CAM) Courses of R-26 Curriculum

1. The syllabus of I & II Semester M.E. (CAD/CAM) courses was presented and discussed.
2. Sri P.Chandra Sekhar observed that Mechanical Engineering students require stronger programming knowledge to meet industry requirements.
3. Dr. P.V.R. Ravindra Reddy proposed establishment of a Vibration based Condition Monitoring Laboratory to improve the industry orientation among the students. Hence it was proposed to offer Vibration based Condition Monitoring as a professional elective course.

The proposed syllabus was approved with minor corrections.

Agenda 5: Approval of the Panel of Question Paper Setters, Evaluators, and External Examiners for AY2026–2027

1. The panel of Question Paper Setters, Evaluators, and External Examiners for AY 2026–2027 was presented before the committee.
2. Dr. K. Ramesh Kumar enquired regarding the availability and consent of the proposed panel members. HOD informed the committee that consent from all panel members would be obtained before finalization.

The Board of Studies members approved the proposed panel.

Agenda 6: Updates on Research, Teaching, Extension, and Other Academic Activities

HOD presented updates on departmental research activities, teaching initiatives, extension activities, and industry collaborations. The committee members satisfied with the departmental activities

Agenda 7: Any Other Item with the Permission of Chair

1. The syllabus of III & IV Semester M.E. (CAD/CAM) courses was also presented by the HoD. The proposed syllabus was discussed and approved. Further HoD also informed the members about the Programme Outcomes of M.E (CAD/CAM) in R26 Curriculum is reduced to 4 as the NBA Requirement is 3 only.

2. Dr. K. Ramesh Kumar suggested encouraging Mechanical Engineering students to pursue Minors in Computer Engineering domains to improve interdisciplinary competency.
3. HoD Informed to the members about the following Minor Engineering specializations offered to the students by the department.

- 3D Printing
- Composite Materials
- Nanotechnology

4. For Honors Engineering the required NPTEL certification courses were discussed. Dr. P.V.R. Ravindra Reddy suggested finalizing NPTEL courses after official publication on the NPTEL portal. The committee authorized the Chairperson of the BoS to finalize suitable NPTEL courses by constituting a departmental committee.
5. The following Value Added Courses (VACs) were proposed to offer to the students in the AY 2026-27:

- Computational Fluid Dynamics (CFD)
- Introduction to MATLAB

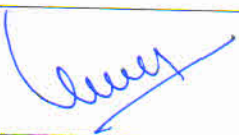
After detailed deliberations, the Board of Studies committee resolved to recommend the R-26 curriculum scheme and syllabus (Both UG & PG) for further academic processing and approval, subject to incorporation of minor corrections and formatting revisions suggested, if any.

As there were no further items for discussion, the meeting concluded with a vote of thanks proposed by the Chairperson, Board of Studies, Department of Mechanical Engineering, CBIT


Head & Chairperson

Board of Studies
PROFESSOR & HEAD
Department of Mechanical Engineering
Chaitanya Bharathi Institute of Technology (A)
Gandipet, Hyderabad-500 075, Telangana

EXTERNAL BoS Meeting on 28-04-2026 at 10.30 AM

Sl.No	Name of the Member	Signature
1.	Dr. G. Laxmaiah MED, CBIT, Hyderabad	
2.	Dr. P.V.R. Ravindra Reddy MED, CBIT, Hyderabad Dr. P. Prabhakar Reddy MED, CBIT, Hyderabad	 
3.	Dr. Md. Aleem Pasha MED, CBIT, Hyderabad	
4.	Sri. D. Ravi MED, CBIT, Hyderabad	
5.	Prof. N. Venkat Reddy MED, IITH, Hyderabad nvr@iith.ac.in 8332062138	online
	Dr. Y. Ravi Kumar NIT, Warangal yrk@nitw.ac.in 9440868867	online
6.	Prof. M. Chandra Sekhar Reddy OUCE, Hyderabad mcsreddy@osmania.ac.in 9866584298	online
7.	Dr. K. Ramesh Kumar BRAHMOS, DRDL, Hyderabad rkkatta@rediffmail.com 9848514906	
8.	Dr. C. Satyanarayan Raju DRDL, Hyderabad	
9.	Bussa Rathna Spandhan RNTBCI, Automobile, Chennai	online
10.	Mr. VR Sunil Kumar Ramtec Industries, Hyderabad	online
11.	Dr. S. Satyanarayana A.P.LMEC Systems, Hyderabad	online
12.	Mr. P. Chandra Sekhar Tecniq Design Group, Hyderabad.	online