CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY (A)
DEPARTMENT OF INFORMATION TECHNOLOGY

Date: 25-04-2026

Minutes of the sixteenth Board of Studies (Information Technology) meeting held online on 23-04-2026 in hybrid mode from 02:00PM onwards:

Members present:

1. Prof. O.B.V. Ramanaiah, Professor, CSE, Dept. of CSE, JNTUH(A), Hyderabad
2. Dr. Suresh Kumar Lokhande, Professor, CSE Dept., UCE, O.U, Hyderabad.
3. Dr. Raghavendra Kune, Scientist 'SG', Head, High Performance Computing and Drones, ADRIN, ISRO, Hyderabad
4. Emmanuel Gosula, Senior Resource Development Manager, EPAM, Hyderabad
5. Dr. BalaPrasad Peddigari, Chief Innovation Officer and Global Head – Technology Advisory Services, TCS, Hyderabad
6. Dr. P.Vijaya Pal Reddy, Professor &Principal, Dept. of CSE, Keshav Memorial College of Engg., Hyderabad
7. Prof. M. Venu Gopalachari, I/C) –Head, IT Dept., CBIT, Hyderabad.
8. Prof. P. Suresh, IT Dept., CBIT, Hyderabad.
9. Prof. K Ramakrishna, IT Dept., CBIT, Hyderabad.
10. Dr. Ramu Kuchipudi, Assoc Professor, IT Dept., CBIT, Hyderabad.
11. Dr. N. Sudhakar Yadav, Assoc Professor, IT Dept., CBIT, Hyderabad.
12. Dr. Sagar Gujjunoori, Assoc Professor, IT Dept., CBIT, Hyderabad.
13. Dr. V. Prashanthi, Assoc Professor, IT Dept., CBIT, Hyderabad
14. Dr T. Satyanarayana Murthy, Assoc Professor, IT Dept., CBIT, Hyderabad.
15. Dr R M Krishna Sureddi, Assoc Professor, IT Dept., CBIT, Hyderabad.
16. Dr. B.Veera Jyothi, Assoc Professor, IT Dept., CBIT, Hyderabad
17. Dr. A. Sirisha, Assistant Professor, IT Dept., CBIT, Hyderabad.
18. Dr. D. Jayaram, Assistant Professor, IT Dept., CBIT, Hyderabad.
19. Dr. K. Sugamya, Assistant Professor, IT Dept., CBIT, Hyderabad.
20. Dr. T. Prathima, Assistant Professor, IT Dept., CBIT, Hyderabad.
21. Dr. Swathi Sowmya, Assistant Professor, IT Dept., CBIT, Hyderabad.
22. Dr. B. Harish Goud, Assistant Professor, IT Dept., CBIT, Hyderabad.

Special Invitees Present:

1. Dr. P. Ramesh Babu, Assoc Professor, IT Dept., CBIT, Hyderabad
2. Mrs. E. Rama Lakshmi, Assistant Professor, IT Dept., CBIT, Hyderabad.
3. Mrs. K. Swathi, Assistant Professor, IT Dept., CBIT, Hyderabad.
4. Mr. V. Santhosh, Assistant Professor, IT Dept., CBIT, Hyderabad.
5. Mr. K. Gangadhara Rao, Assistant Professor, IT Dept., CBIT, Hyderabad.

Leave of Absence:

1. Dr. Praveen Tammana, , Asst. Professor, CSE, Dept , IIT Hyderabad.
2. Ms. Swetha Bodhankar, Cloud solution architect, Microsoft Pvt Ltd.,USA
3. Ms. Manasa Inampudi, Senior Solutions Consultant, Google, Hyderabad

Agenda of the meeting:

1. Confirmation of the minutes of the Fifteenth BoS held on 28-04-2025.
2. Approval of the Scheme from I to VIII Semesters under R26 Regulations for the B.E. (IT) program.
3. Approval of the Scheme from I to IV Semesters under R26 Regulations for the M.Tech (AI & Robotics) program.
4. Approval of the syllabus for courses of I & II Semesters of the M.Tech (AI & Robotics) program under R26 Regulations.
5. Approval of Open Electives, Value-Added Courses, and Additional Minor Engineering offerings by the Department.
6. Any other item with the permission of the Chair.

Dr. M. Venu Gopalachari, Chairperson, Board of Studies (IT) acknowledged the valuable contribution of earlier BoS members in compiling the BE Syllabus for R22(A) and ME Syllabus for R23, introduced internal members of BoS, welcomed all the present BoS members of the Board and conducted the proceedings.

Agenda for the 16th BoS meeting was announced by HoD, IT.

Item 1: Confirmation of the minutes of the fifteenth BoS

Prof. O.B.V. Ramanaiah, Dr. Suresh Kumar Lokhande, Dr. Raghavendra Kune, Mr. Emmanuel Gosula, Dr. Bala Prasad Peddigari, and Dr. P. Vijaya Pal Reddy and all internal BOS members have confirmed the 15th BoS meeting minutes.

Item 2: Approval of the Scheme from I to VIII Semesters under R26 Regulations for the B.E. (IT) program.

Prof . M. Venu Gopalachari presented scheme of BE (IT) from I to VIII Semesters under R26 Regulations with the following key points:

- The curriculum includes five professional elective courses distributed across semesters.
- Students are required to complete two Upskilling certification programs during winter breaks.
- One compulsory course from NPTEL is to be completed by students during the III or IV semester
- Two Mini projects are introduced in IV and VI semesters to strengthen practical knowledge
- Students must complete two internships during summer breaks after V and VII semesters
- The traditional technical seminar component in the VII semester has been removed as the purpose of it is achieved in internships and mini projects.
- It was proposed that each professional elective group should include one course identified based on current industry demands. This course will be reviewed and finalized at the beginning of every academic year in consultation with industry experts, alumni, and advisory boards.

- In the VII semester, students are provided with the option to choose between an internship or an open elective. If a student successfully completes an internship after the VI semester (during the summer break), they may be waived from the open elective course of VII semester, subject to approval and fulfillment of defined evaluation criteria.
- The course Digital Fabrication Workshop (1.5 Credits) is removed from I Sem.
- Credits of Linear Algebra and Calculus, Differential Equations and Numerical Methods and Probability and Queueing Theory course from IV Sem, each reduced by 1 credit, and to maintain the credit proportion of Basic Sciences as per the AICTE.
- Credits of Engineering Graphics were reduced by 1 credit.
- Chemistry Lab course credits reduced by 0.5 credit.
- Basic Electrical Engineering (Theory + Lab) moved from II Sem to I Sem.
- Data Structures using C++ (Theory (3 credits) and Data Structures using C++ Lab(1credit) were removed from II Sem and Data Structures using C (4 credits) and Data Structures using C Lab (1.5 credit) were added to II Sem.
- Basic Electronics and Sensors (Theory and Lab) Lab course was proposed in II sem in the board of ECE.
- Python Programming (2 credits) Theory and Python Programming Lab (1 credit) were added to II Sem to accommodate more department related courses in I and II Semesters.
- Robotics and Drones Lab (2.5 credits) of II Sem was replaced by Robotics and Drones (2 credits with 2 hours) Theory and Robotics and Drones Lab (1 credits with 2 hours) in IV Sem.
- Database Management Systems Theory and Lab courses were moved from IV Sem to III Semester.
- Machine Learning Theory and Lab courses were moved from V Sem to IV Sem.
- Deep Learning theory and Lab courses were moved from VI Sem to V Sem.
- Artificial Intelligence was moved from V Sem to III Sem as a prerequisite to Machine Learning and Deep Learning Courses in subsequent semesters.
- MLops course introduced in Program Elective V as one option which is a subsequent course for Devops.
- Engineering Economics & Accountancy (3 credits) was moved from IV Sem to VI Sem.
- The Environmental Science (NC) course was moved from IV Sem to VI Sem.
- Embedded Systems and Internet of Things Theory and Lab courses were moved from VII Sem to VI Sem.

The BoS members gave the following Suggestions for* Scheme of B.E. (IT) program*:

- **Prof. O.B.V. Ramanaiah**, raised a concern regarding the course title "Data Structures Using C," suggesting that the programming language name be removed to make the subject more generic and flexible. In response, Dr. M. Venu Gopalachari clarified that the inclusion of the language name has been done to maintain uniformity across multiple branches, where the same course is offered with a standardized approach.
- **Dr. Raghavendra Kune**, suggested to ensure that the syllabus of Basic Electronics and Sensors does not overlap with the Internet of Things (IoT) course.
- **Dr. Raghavendra Kune** suggested allowing interdisciplinary courses for student upskilling, particularly those offered by industry.

- He also recommended focusing on emerging national priorities such as semiconductor technologies, including exposure to chip design and semiconductor manufacturing ecosystems in India.
- **Dr. BalaPrasad Peddigari** suggested introducing Quantum Computing instead of Cloud Computing for next Regulations.
- **Mr. Emmanuel Gosula** suggested that the institution should consider taking institutional subscriptions for AI and cloud platforms. This would provide students and faculty with access to advanced tools, resources, and hands-on environments, thereby enhancing practical learning, research capabilities, and exposure to industry-relevant technologies.

Prof.O.B.V. Ramanaiah, Dr. Suresh Kumar Lokhande, Dr. Raghavendra Kune, Mr. Emmanuel Gosula, Dr. Bala Prasad Peddigari, and Dr. P. Vijaya Pal Reddy and all internal BOS members have approved the scheme of BE (IT).

Item 3: Approval of the Scheme from I to IV Semesters under R26 Regulations for the M.Tech (AI & Robotics) program

Prof. M. Venu Gopalachari presented Scheme from I to IV Semesters under R26 Regulations for the M.Tech (AI & Robotics) program for the following:

- It was proposed to include three laboratory courses in the I semester, with an additional lab component introduced for Professional Elective–I (PE1)
- The Program Electives have been restructured in such a way that students will mandatorily choose at least two courses related to Robotics.
- New courses have been introduced, and a few existing program electives have been rearranged. This revision is intended to keep the curriculum updated with emerging technologies, and improve the logical flow of subjects across semesters.

List of newly introduced Courses:

1. Artificial Intelligence and Machine Learning (Theory and Lab) in I semester
2. Mathematical Foundations for Artificial Intelligence and Quantum Computing in I Semester
3. Program Elective-1 subjects in I semester:
   - Cloud Computing Lab
   - Cyber Security Lab
   - Advanced Computer Networks theory and Lab
   - Embedded Systems and IOT theory and Lab
   - High performance Computing Lab
4. Program Elective-2 subject in II semester : Prompt Engineering
5. Program Elective- 4 subjects in II semester:
   - Generative AI Lab
   - Block Chain Technology Theory and Lab
   - Quantum Computing theory and Lab

***The BoS members gave the following Suggestions for* Scheme of M.Tech. (IT) program:**

1. **Dr. Raghavendra Kune** suggested the inclusion of a Robotics and UAV Design course.
2. **Prof. O.B.V. Ramanaiah** suggested to revise the course title from "Embedded System and IoT" to "Embedded Systems and IoT"
3. **Dr. Bala Prasad Peddigari suggested to include lab course** AI and Robotics Operating Systems (AI & ROS)

Prof. O.B.V. Ramanaiah, Dr. Suresh Kumar Lokhande, Dr. Raghavendra Kune, Mr. Emmanuel Gosula, Dr. Bala Prasad Peddigari, and Dr. P. Vijaya Pal Reddy and internal BOS members have approved the scheme of M.Tech IT(AI&Robotics).

Item 4: Approval of the syllabus for courses of I & II Semesters of the M.Tech (AI & Robotics) program under R26 Regulations

Prof. M. Venu Gopalachari and internal BoS members presented the syllabus of M.Tech - IT(AI&Robotics)

***The BoS members gave following Suggestions for* Syllabus of M.Tech. (IT) program:**

1. Dr T. Satyanarayana Murthy has presented the syllabus for Fundamentals of Robotics and Advanced Robotics Courses and **Dr. Raghavendra Kune** suggested the inclusion of a Robotics and UAV Design course, with emphasis on incorporating relevant tools and technologies used in UAV development.
2. Prof. M. Venu Gopalachari presented Natural Language processing syllabus and **Dr. BalaPrasad Peddigari** suggested to include one unit for Language-to-Language Translations. Dr. Swathi Sowmya and V. Santhosh clarified that its included in Generative AI Subject.
3. Dr. B. Veera Jyothi, has presented syllabus for Prompt Engineering and **Dr. Bala Prasad Peddigari** suggested to collaborate with the English Department to enhance the formulation of effective prompts. He also recommended including key prompting techniques such as **iterative refinement, zero-shot, one-shot**, and related approaches.
4. Prof. M. Venu Gopalachari presented the syllabus for the course Cognitive Robotics and **Dr. Bala Prasad Peddigari** suggested the inclusion of case studies in areas such as anatomy-inspired robotics, multi-agent robotics, and agile robotics. He also recommended introducing a laboratory course on AI and Robotics Operating Systems (AI & ROS), incorporating tools such as Gazebo and other relevant simulation platforms.
   Further, he emphasized encouraging students to undertake internships in robotics-related domains.
   Dr. Sudhakar Yadav clarified that some of the suggested topics are already covered in the course **Introduction to Robotics using Python** (theory).
5. Prof. K Ramakrishna suggested that the courses Generative AI and Prompt Engineering may be merged into a single course.
6. Dr. G. Sagar presented Quantum Computing theory and Lab course, Prof. M. Venu Gopala Chari suggested that the laboratory syllabus be further elaborated by converting the listed topics into well-defined experiments with clear problem statements and tasks.
7. **Dr. Bala Prasad Peddigari** suggested including additional tools and frameworks such as Cirq, QML (PennyLane), and Jupiter Notebook as part of laboratory exercises to enhance practical exposure.

He also recommended encouraging students to undertake mini-projects in Quantum Computing, with application areas such as chain optimization and traffic signal optimization.

Further, he suggested that Quantum Computing be introduced as a subject across all branches to promote interdisciplinary learning and future readiness.

8. Dr. Sudhakar Yadav presented Advanced Big Data Analytics, and **Dr. Bala Prasad Peddigari** suggested that industry-oriented experiments such as cloud analytics, AI/ML pipelines, data warehouse architecture, and modern data engineering practices should be included.

   He pointed out that the current syllabus is largely focused on MapReduce, and recommended aligning it with modern data engineering trends to improve industry relevance. Dr. Sudhakar Yadav clarified that the syllabus also includes components on Apache Spark and Apache Kafka, addressing modern big data processing requirements.

Item-5: Approval of Open Electives, Value-Added Courses, and Additional Minor Engineering offerings by the Department courses.

Prof. M. Venu Gopalachari presented the below list of open elective courses, and it is approved by all the BoS members.

S.No	Course Code	Course Name
1	26ITO01	Object Oriented Programming Using Java
2	26ITO02	Object Oriented Programming Through C++
3	26ITO03	Introduction to Cloud Computing
4	26ITO04	Machine Learning for Engineering and Science Applications
5	26ITO05	Data Analytics with Python
6	26ITO06	Block chain and its Applications

Prof. M. Venu Gopalachari presented the below Value-Added Courses and it is approved by all the BoS members.

1. Modern Cloud Technologies: Principles and Practices, designed by Prof. M. Venu Gopalachari
2. Design Thinking for Software Development, designed by Prof. K Ramakrishna.

All the BoS members authorized the BoS Chairperson to propose and decide on additional minor engineering programs, in accordance with the institute's criteria, from the current set of programs.

Item-5: Any other item with the permission of the chair

Prof. M. Venu Gopalachari invited suggestions from the BoS members regarding effective assessment tools for the R26 regulations that would enhance both students' knowledge and their placement readiness.

Dr. Bala Prasad Peddigari suggested incorporating '**Industry use-case presentations'** as part of classroom activities, where students present how a particular subject or concept is applied in industry. He recommended that students articulate these use cases through short presentations (approximately 5 minutes) during class. He further proposed allocating 5 marks for this activity as part of internal assessment, in place of attendance-based marks.

The chairman, BoS has been authorized to set the panel of examiners for question paper setting, valuation of Answer scripts and conducting Semester-End practical examinations. The chairman, BoS also has been authorized to make any minor changes such as typographical errors, Syntactic changes or any changes in CO-PO/PSO matrix.

The BoS (IT) meeting is concluded with a vote of thanks by the Chairperson.

M. Venugopal 24/4/26

Dr. Venu Gopalachari
Chairperson, BoS (IT)
Head(I/C), IT Dept., CBIT (A)