



## DEPARTMENT OF CIVIL ENGINEERING

### MINUTES OF MEETING

Minutes of 16<sup>th</sup> BoS meeting held online on 29<sup>th</sup> April 2025 at 2.00 PM

#### Members Present:

S. No.	Name	Organization
1.	Dr. K. Jagannadha Rao	Professor & Head, Chairman, BoS, CED, CBIT, Hyderabad
2.	Dr. M V S Sreedhar	Professor, CED, O.U.
3.	Dr. K V L Subramaniam	Professor, CED, IITH
4.	Dr. P. Ratish Kumar	Professor, CED, NITW
5.	Er. Ravinder Gupta	Director, D.E.C. Infrastructures, Hyderabad
6.	Er. C Shekar Reddy	Past National President at CREDAI, CMD - CSR Estates Ltd, Chairman-CII-Indian Green Building Council, Hyderabad
7.	Dr. K. Shruthi	Assistant Executive Engineer, CDO, Irrigation Dept, Hyderabad
8.	C.A. Prasad	Director, Metey Engineering & consultancy Pvt. Ltd.
9.	Dr. C. Ravi Kumar Reddy	Professor Internal BoS member, CED, CBIT, Hyderabad
10.	Dr. N. R. Dakshina Murthy	Assoc Professor, Internal BoS member, CED, CBIT, Hyderabad
11.	Dr. D. Bharath Kumar	Assistant Professor, Internal BoS member, CED, CBIT, Hyderabad
12.	Mrs. K. Manasa	Assistant Professor, Internal BoS member, CED, CBIT, Hyderabad
13.	Dr. R. Durga Prasad	Associate Professor, Special Invitee, CED, CBIT, Hyderabad
14.	Mrs. N. Lalitha Kumari	Assistant Professor, Special Invitee, CED, CBIT, Hyderabad
15.	Dr. Jnana Ranjan Khuntia	Assistant Professor, Special Invitee, CED, CBIT, Hyderabad
16.	Dr. Koniki Srikanth	Assistant Professor, Special Invitee, CED, CBIT, Hyderabad
17.	Dr. B. Raghava Aditya	Assistant Professor, Special Invitee, CED, CBIT, Hyderabad
18.	Dr. Kakara Srikanth	Assistant Professor, Special Invitee, CED, CBIT, Hyderabad
19.	Dr. G. Mallikarjuna Rao	Assistant Professor, Special Invitee, CED, CBIT, Hyderabad

Chairman, BoS welcomed all the members and appraised them of the agenda. The main agenda of the meeting is to discuss the proposed R-22 (A) scheme and syllabi of various courses for I to VIII semesters of the UG curriculum.

Agenda:

1. Confirmation of the minutes of 15th BOS Meeting.
  2. UG (R-22A) Curriculum Scheme, Structure and Syllabi for I to VIII sem Courses.
  3. Outcome-DAB Meeting held on 16th April 2024.
  4. Any other item with the permission of the chair.
- o The HOD briefed the Scheme and Structure R22(A) (I to VIII Semester), elucidating the significant changes in detail.

Chairman discussed the minor changes in scheme of proposed R-22(A) curriculum for UG: -

- o In Design of Steel Structures some minor modifications made based on industry feedback to enhance content relevance.
- o Two experiments were merged in Geotechnical Engineering Laboratory syllabus.
- o Fluid Mechanics syllabus reorganized for balance; topics removed and shifted across units to align with GATE/ESE patterns.
- o The Hydraulic Engineering syllabus has been revised to improve content distribution and some new topics were added.
- o Fluid Mechanics Lab Rectangular Notch incorporated into Experiment 3.
- o Green Building Technologies syllabus fully revamped to align with current industry standards and Sustainability Development goals.
- o Blockchain Technology in Civil Engineering is introduced as an elective in VIII semester under the R22 (A) syllabus.
- o Program Outcomes (POs) were revised to 11 POs from AY 2023-24, replacing the previous 12 POs, aligning with NBA guidelines.
- o Course Outcomes (COs) and Program Articulation Matrices for four courses presented to BOS members for alignment with the revised 11 POs.
- o HOD appraised minutes of DAB meeting for all the BOS members

- o The DAB recommended revising the department's vision and mission statements to align more closely with current industry demands, particularly in areas such as Construction Management and Structural Engineering. It was also suggested to introduce new undergraduate electives including Pre-Engineered Buildings, MEP Design, High-Rise Construction, Precast, and Post-Tensioning Technology. Additionally, it was proposed to rename the course "Repair and Rehabilitation" to "Repair, Rehabilitation, and Retrofitting" to better reflect modern construction practices.
- o The Chairman, BoS informed that the department shall initiate a review process for updating its vision and mission statements. Proposed curriculum enhancements including new electives and revised course titles will be placed before the next BoS for approval. A structured internship monitoring mechanism will be developed, incorporating regular interactions between faculty and industry mentors.
- o The HOD handed over the session to Dr. G. Mallikarjuna Rao, who presented the detailed syllabus of all courses across the eight semesters to the BoS members. The complete curriculum was showcased and reviewed during the meeting.

#### **Open Forum Discussions: -**

- o Prof. Subramaniam appreciated the curriculum structure but raised concerns about the credit load. He recommended a bell-shaped credit distribution curve, with a lighter load in the first semester, increasing in the middle semesters, and tapering down in the final year. HoD clarified that this approach is already followed in our curriculum.
- o Industry experts, including Dr. Shruthi, Er. Shekar Reddy and Er. Anjaneya Prasad, expressed strong appreciation for the overall curriculum structure and acknowledged the department's efforts in integrating sustainability and emerging technologies. They collectively emphasized the growing importance of Building Information Modeling (BIM) in the construction industry, highlighting its role in reducing waste, optimizing design through 3D visualization, and achieving substantial cost savings in areas such as plumbing, alignment, and core cutting. They recommended that while BIM may not be a standalone course, students should at least be introduced to its fundamentals through electives, minor/honors programs, and certified hands-on training, and that faculty should be equipped to deliver this knowledge. Additionally, they stressed the need to

enhance coverage of Pre-Engineered Buildings (PEBs) and Precast technologies due to increasing industry demand.

- o The HOD responded that the department is already offering Minor and Honors degree programs, and it is feasible to include Precast and Pre-Engineered Building technologies in the Honors curriculum to make students industry-ready. He shared that during an internal BoS discussion, a proposal was made to introduce an elective titled Industrial Structures, within which two units could be dedicated to PEB concepts. This would help expose undergraduate students to PEB without overloading the core curriculum. A brainstorming session will be planned to finalize the list of such high-impact courses, including BIM, Precast, and PEB, to support the current skill demands of the construction industry.
- o Dr. Kakara Srikanth added that the department has already introduced an elective titled Airports and Railway Engineering, offered in the VII semester, covering topics such as geometric design of railways and terminal/runway planning.

## Actionable Items:

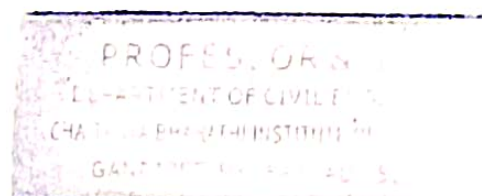
The following are the actionable items based on the suggestions from the BoS members:

- Continue facilitating certified training programs and workshops on Building Information Modelling (BIM) to ensure students gain essential exposure, and explore possibilities to strengthen BIM-related content within existing electives.
- Propose the inclusion of key Pre-Engineered Building (PEB) concepts in the upcoming Industrial Structures elective and recommend Precast Technologies as optional topics in Honors/MOOCs where feasible.
- Enhance the content of the existing Airports and Railways elective by including more execution-level aspects, and promote internships or guest lectures to supplement learning in infrastructure sectors.
- Plan an internal faculty discussion to explore ways of embedding industry-relevant content (such as BIM, PEB, and Precast) within the scope of existing electives, workshops, and value-added programs.

Chairman ended the meeting by thanking all the esteemed members for the suggestions/inputs given by them.



Head, CED



16th BOS Meeting- CED (Moderated unmute mode) Meeting Info 41:45 Layout

Viewing HoD\_Civil's screen - 100% + Annotate

### R-22(A) Scheme of I to VIII semester

#### IV Semester

Sl. No.	Course Code	Title of the Course	Scheme of Instruction			Scheme of Examination		Credits
			Hours Per week			Duration of SEE in Hours	Maximum Marks	
			L	T	P	CE	SEE	
1	22CEC09	Hydraulic Engineering	3		3	40	60	3
2	22CEC10	Surveying - II	3		3	40	60	3
3	22CEC11	Structural Analysis - I	3		3	40	60	3
4	22CEC12	Reinforced Concrete Design - I	3		3	40	60	3
5	22CEC13	Concrete Technology	3		3	40	60	3
6	PE-I		3		3	40	60	3
7	22CEC14	Hydraulic Engineering Lab		3	3	50	50	1.5
8	22CEC15	Surveying & Geomatics Lab		3	3	50	50	1.5
9	22CEC16	Solid Mechanics Lab		3	3	50	50	1.5
10	22EGM01	Indian Constitution & Fundamental Principles	2		2		50	0.5
11	22CEC01	Upgrading Certification Course-I				25	500	0.5
			20		9	415	500	20

Credit hours per week: 20

Unmute Start video Share AI Assistant Raise

Participants: malikarjun, HoD\_Civil, C Shekar Reddy (Unverified), Dr. Konka Shruti (Unverified)

16th BOS Meeting- CED (Moderated unmute mode) Meeting Info 54:36 Layout

Viewing HoD\_Civil's screen - 100% + Annotate

### Modifications in the Courses

#### FLUID MECHANICS LABORATORY - 22CEC08

- In Experiment 3, the Rectangular notch has been added.

**In Unit I, the following topics have been reorganized:**

- Most economical sections of channels: Rectangular, trapezoidal, circular, and triangular. Concept of critical depth and its computation. Significance of Froude number and specific energy.
- Types of slopes topic has been added to Unit II.
- Specific force and conjugate depths have been moved from Unit I to Unit II.
- Length of hydraulic pump has been added to Unit II.
- In Unit III (Boundary Layer Theory), the following topics have been included:
- Development of boundary layer on a thin flat plate, Laminar sub-layer.

Unmute Start video Share AI Assistant Raise

Participants: malikarjun, HoD\_Civil, C A Prasad (Unverified), Dr. Konka Shruti (Unverified)

Web B08 Meeting: CSD (Moderated unmute mode) Meeting Info 01:46:59 (L1 Layout)

Participants (15)

Invite and remind

cbt.ac.in

Dr. Konka Shruti  
Unverified

DURGA PRASAD RAVELLA  
Unverified

K.V.L. Subramaniam  
Unverified

lalitha  
Unverified

Manasa Kotha  
Unverified

meetingvc@decinfra.com  
decinfra.com

R.A.B.  
cbt.ac.in

srikanthakara\_civil@cbt.ac.in  
cbt.ac.in

Mute all Unmute all

Unmute Start video

Web B08 Meeting: CSD (Moderated unmute mode) Meeting Info 02:46:16 (L1 Layout)

Participants (15)

Search

Unverified

Dr. CRK REDDY  
Unverified

Dr. Konka Shruti  
Unverified

DURGA PRASAD RAVELLA  
Unverified

K.V.L. Subramaniam  
Unverified

lalitha  
Unverified

Manasa Kotha  
Unverified

meetingvc@decinfra.com  
decinfra.com

R.A.B.  
cbt.ac.in

srikanthakara\_civil@cbt.ac.in  
cbt.ac.in

Unmute Stop video Share AI Assistant Raise

## CED-CBIT-16th BOS Meeting - Reg.

Mon, Apr 28, 2025 at 1:48 PM

CIVIL HEAD <hod\_civil@cbit.ac.in>  
 To: sreethar.m@uceou.edu, shruti konka <shrutikonka2013aee@gmail.com>, K V L Subramaniam <kvis@ce.iitb.ac.in>, Ratish Kumar P <rateeshp@nitw.ac.in>, csr@csrestates.com  
 Bcc: "Dr. G. Mallikarjuna Rao" <mallikarjunaraog\_civil@cbit.ac.in>, "Smt. Manasa Kankanala" <kmanasa\_civil@cbit.ac.in>, "Dr. Kakara Srikanth" <srikanthkakara\_civil@cbit.ac.in>, "Dr. Raghava Aditya Bhamidipati" <raghavaadityab\_civil@cbit.ac.in>, "Dr. Srikanth Koniki" <ksrikanth\_civil@cbit.ac.in>, "Dr. Jnana Ranjan Khuntia" <jnanaranjan\_civil@cbit.ac.in>, "Dr. D. Bharath Kumar" <bharathkumard\_civil@cbit.ac.in>, "Dr. N.R. Dakshina Murthy" <dakshinamurthy\_civil@cbit.ac.in>, "Dr. Ravi Kumar Reddy" <ravikumarreddy\_civil@cbit.ac.in>

Dear Esteemed Members,

Greetings from the Department of Civil Engineering, CBIT(A)!

The 16th BOS meeting of the Department of CIVIL Engineering is scheduled on **29th May 2025 (Tuesday)** from **2:00 PM (IST)** in online mode (through CISCO Webex).

**Agenda:**

- 1-Confirmation of the minutes of 15th BOS Meeting.
- 2-UG (R-22A) Curriculum Scheme, Structure and Syllabi for I to VIII sem Courses.
- 3-Outcome-DAB Meeting held on 19th April 2025.
- 4-Any other item with the permission of the chair

The link for the meeting is given below

**Meeting Link:**
<https://cbithyd.webex.com/cbithyd/j.php?MTID=m01fdeecaa8beeb45f65739ef01ffa035>

Tuesday, April 29, 2025 1:40 PM,IST

Meeting number: 2642 678 5374


Password: civil1234


Please find the agenda notes for the 16th BOS Meeting and all the members are requested to join the meeting.


**With Regards**

Dr. K. JAGANNADHA RAO

Professor and Head of Civil Engineering and  
 Joint Director, Student Affairs & Progression  
 Chaitanya Bharathi Institute of Technology  
 Gandipet, Hyderabad - 500075

**4 attachments**
 15 Bos MOM Civil final.pdf  
 892K

 BoS, Meetings Agenda-CED.pdf  
 212K

 Annexure-I for BOS.pdf  
 3385K

 DAB Minutes Final.pdf  
 1233K