

**CHAITANYA BHARATI INSTITUTE OF TECHNOLOGY
DEPARTMENT OF CIVIL ENGINEERING**

Stakeholder Involvement in Curriculum Development AY 2022-23

Action taken and implementation in Curriculum

Index

Sl. No.	Stake Holder	Page Number
1.	Students	2
2.	Teachers	6
3.	Employers	8
4.	Alumni	11



Students Feedback :

Sl. No.	Suggestions & Opinion	Actions Taken
1.	Feedback on POs achieved a moderate score in many criteria.	<p>The feedback received from students required special attention focusing on improving the attainment of Certain Pos corresponding to Modern Tool Usage (PO5), Environmental and Sustainability (PO-7), Project Management and Finance (PO-11), and Lifelong Learning (PO-12).</p> <p>Apart, from the Teaching-Learning Process, faculty were mentored to focus on the various aspects of defined POs to achieve the required attainment.</p> <p>A center of excellence on Smart Materials & Sustainable Infrastructure has been proposed to improve the focus of students on the aspects of the above-mentioned POs.</p>
2.	A few areas in Institute facilities received relatively lower ratings.	Efforts are being made to improve infrastructural facilities like Toilets, water quality, Internet accessibility, etc.



PROFESSOR & HEAD
DEPARTMENT OF CIVIL ENGINEERING
DR. P. N. S. BHARATHI INSTITUTE OF TECHNOLOGY
GANDIPET, HYDERABAD - 500 075

Proposal for Centre of Excellence

1	Department	: Civil Engineering
2	Name of the Centre	: Centre of Excellence for Smart and Sustainable Infrastructure
3	Name of the Focal persons	Prof. K. Jagannadha Rao Dr. R. Durga Prasad Dr. Dudam Hharathi Kumar Dr. Angushman Das Dr. Kamalini Devi Dr. Kakara Srikanth
4	Vision	: To be Centre to catalyze a global shift towards resilient, equitable, and environmentally conscious infrastructure systems.
5	Mission	: <ol style="list-style-type: none"> 1. To advance the frontier of knowledge in smart and sustainable infrastructure through rigorous research, interdisciplinary collaboration, and innovative solutions, driving the transition towards resilient and environmentally conscious infrastructure systems. 2. To empower communities, policymakers, and industry stakeholders with the knowledge, tools, and resources needed to design, implement, and maintain smart and sustainable infrastructure that enhances quality of life. 3. To serve as a global hub for excellence in smart and sustainable infrastructure, leveraging cutting-edge technologies, best practices, and stakeholder engagement to foster a culture of innovation, resilience, and inclusivity in infrastructure development and management.
Minimum Requirements for Establishing the Centre (To Start With) with justification		
6	Space (Sq. ft)	: 500
7	Amenities	: Tables, chairs, LCD projector, white board, UPS

[Signature]

PROFESSOR & HEAD
 DEPARTMENT OF CIVIL ENGINEERING
 JNTU-KRISHNAPURAM
 SANGHVI, HYDERABAD - 500 075

8	Equipment	:	3- High performance Work stations, 5 - Computers, Life Cycle Assessment software, Design of experiments software, PLAXIS-2D	
9	Proposed Budget (in Rs.)	:	20,00,000/-	
Expected Outcome		:	In 3 Years	In 5 Years
1	No. of publications	:	6 - Conference Papers 6 -Journal Papers	10 - Conference Papers 10 -Journal Papers
1	No. of Sponsored Projects	:	2	4
1	No. of Consultancy Projects	:	2	5
1	Patents	:	2	5
1	Products	:	2	3
No. of Beneficiaries				
1	BE students	:	180	300
1	ME Students	:	18	30
1	Research Scholars	:		
1	Faculty	:	25	40
Any other useful information				



PROFESSOR & HEAD
DEPARTMENT OF CIVIL ENGINEERING
CHAITANYA-NATHI INSTITUTE OF TECHNOLOGY
6M, DIT, HYDERABAD - 500 075

The Centre of Excellence serves as a vital resource for engineers, planners, and policymakers seeking innovative solutions and evidence-based recommendations to address complex challenges in infrastructure development, ranging from enhancing energy efficiency and resilience to integrating emerging technologies for sustainable urban growth.

The establishment of the CoE is very much useful for PG students, and also Major Project work for UG students. The centre can offer summer/winter internships for other engineering college UG/PG students. After completion of first year, it is proposed to start certification courses/skill development courses in this area. The PG/UG students having a lot of scope for implementation their ideas as a system product for various embedded applications.



PROFESSOR & HEAD
DEPARTMENT OF CIVIL ENGINEERING
CHITRANAG - VVTH INSTITUTE OF TECHNOLOGY
GANDIPET, HYDRABAD - 500 075

Teachers :

S. No.	Suggestions & Opinion	Actions Taken
1	The scheme of evaluation and Schedules is too hectic for students.	The requirement of scheduling the Academic Calendar was addressed with the appropriate gap between the semesters for facilitating internships and other activities for students.



PROFESSOR & HEAD
DEPARTMENT OF CIVIL ENGINEERING
JNTU - K J Somaiya Institute of Technology
GALLOPPE, HYDERABAD - 500075



**CHAITANYA BHARATHI
INSTITUTE OF TECHNOLOGY**

An Autonomous Institute Affiliated to Osmania University
Kondapur Village, Hyderabad - 500086, Telangana-500086

ISO 9001:2015 | ISO 14001:2015 | ISO 45001:2018 | ISO 27001:2017 | ISO 26000:2014 | ISO 50001:2015

COMMITTED TO
RESEARCH
INNOVATION AND
EDUCATION

45
years

No.CBIT/D-ACAD/2023/14

Date: 21.10.2023

REVISED ALMANAC 2023-24

Name of the Program: B.E./B. Tech

Semesters: III to VI

III and V Semesters of BE/B. Tech		
1	Commencement of class work	04.09.2023
2	Dasara Holidays	23.10.2023 to 28.10.2023
3	Class Test - I	30.10.2023 to 01.11.2023
4	Continuation of Class work	02.11.2023 to 16.12.2023
5	Last Date of Instruction	16.12.2023
6	Class Test - II	18.12.2023 to 20.12.2023
7	Preparation, Practicals and Semester End Examinations	21.12.2023 to 12.01.2024
8	Sankranti Holiday and Winter Vacation	13.01.2024 to 10.02.2024

IV and VI Semesters of BE/B. Tech		
1	Commencement of class work	12.02.2024
2	Sudhee & Shruthi (Techno cultural Sports Fest)	26.02.2024 to 01.03.2024
3	Continuation of Regular Class Work	04.03.2024 to 01.04.2024
4	Class Test - I	02.04.2024 to 04.04.2024
5	Continuation of Regular Class Work	05.04.2024 to 18.05.2024
6	Last Date of Instruction	18.05.2024
7	Class Test - II	20.05.2024 to 22.05.2024
8	Preparation, Practicals and Semester End Examinations	23.05.2024 to 15.06.2024
9	Internship / Summer Vacation	17.06.2024 to 27.07.2024
10	Commencement of V and VII Semesters for the Academic Year 2024-2025 (tentative)	29.07.2024

Copy to
All Advisors, Directors, Associate and Assistant Directors, Heads of the Departments/Sections,
Head-IR & CoE and Librarian

PRINCIPAL

Employers

S. No.	Suggestions & opinion	Actions Taken
1	Needs a focused approach in training students on design and execution of Pre-Engineered Buildings.	Site visits were planned to educate students and faculty to gain knowledge on the design and execution of pre-engineered buildings.
2	Courses with practical Orientation are to be incorporated in the syllabus.	Practical skills in civil engineering courses has been introduced in the R20 Curriculum in the VIII Semester



PROFESSOR & HEAD
DEPARTMENT OF CIVIL ENGINEERING
DR. TANJA BHAGATHI INSTITUTE OF TECHNOLOGY
GANDIPET, HYDERABAD - 500 075

20CE C34

PRACTICAL SKILLS IN CIVIL ENGINEERING

Instruction	2P Hours per week	
Duration of Semester End Examination	2 Hours	
Semester End Examination	50 Marks	
Continuous Internal Evaluation		50
Marks		
Credits	1	

Course Outcomes: At the end of the course, the student will

1. get the ability to carry out land survey and quantity survey for various structures.
2. be able to read and interpret drawings of various structures.
3. be able to handle and manage various on site civil engineering activities.
4. acquire ability to study and interpret R.C structural drawings and also be able to assess the structural health.
5. acquire ability to study and interpret R.C structural drawings and also be able to assess the structural health.

COs	POs												PSOs		
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3
1	2	1	-	2	1	1	1	-	1	1	2	1	3	2	2
2	2	1	-	2	1	1	1	-	1	1	2	1	3	2	2
3	2	1	-	2	1	1	1	-	1	1	2	1	3	2	2
4	2	1	-	2	1	1	1	-	1	1	2	1	3	2	2
5	2	1	-	2	1	1	1	-	1	1	2	1	3	2	2
Average	2	1	-	2	1	1	1	-	1	1	2	1	3	2	2

UNIT -I:

Surveying: Preparation of Topo sheets - Identifying & locating strategic points on topo sheets - Hydrographic surveying - Quantity surveying for buildings, roads and earth work.

UNIT-II:

Drawing and detailing of Civil Engineering structures: Reading and interpretation of drawings pertaining to buildings, bridges and irrigation structures.



UNIT-III:

Building construction practices: Marking on site as per plans, Quality control checks - Related field tests - Planning and erection of form work - Execution /Construction planning M-book entries.

UNIT-IV:

Concrete Structures: Reading and interpretation of professional drawings of concrete structures (buildings, bridges, water tanks) - Detailing aspects - Detailed study of a distressed structure - NDT - Visit to a structure which is under retrofitting stage - Visit to a prefabricated structure.

UNIT V:

Steel Structures: Reading and interpretation of fabrication drawings and structural drawings of an industrial structure /any other steel structure. Detailed study of marking and execution of steel structure - industrial structure - Detailing of steel structures - Visit to an Industrial / Steel Structure.

Text Books:

- 1) Practical Civil Engineering by P.K. Jaya Sree, K Balan and V Rani, CRC Press (Taylor & Francis Group) 2021.

Suggested Reading:

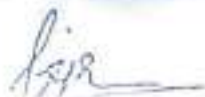
1. Practical Civil Engineering, Hand Book by Rahul Nitin Gupta,



PROFESSOR & HEAD
DEPARTMENT OF CIVIL ENGINEERING
APJKTU - JAMSHEDPUR
JAMSHEDPUR - 831 007

Alumni feedback

S. No.	Suggestions & opinion	Actions Taken
1	More practical aspects have to be incorporated into the syllabus to meet industry expectations	Practical skills in civil engineering course has been introduced in the R20 Curriculum in the VIII Semester
2	It is better to include programming /coding related courses has electives, so interested students get chance to learn such courses	Courses like Basics of Machine Learning, Python programming and IoT are introduced as Open elective in VII semester in revised R20 Regulation.



PROFESSOR & HEAD
DEPARTMENT OF CIVIL ENGINEERING
CHAITANYA BHAYATHI INSTITUTE OF TECHNOLOGY
GANDIPET, HYDERABAD - 500 075

20CE C34

PRACTICAL SKILLS IN CIVIL ENGINEERING

Instruction	2P 1 hours per week	
Duration of Semester End Examination	2 Hours	
Semester End Examination	50 Marks	
Continuous Internal Evaluation		50
Marks		
Credits	1	

Course Outcomes: At the end of the course, the student will

6. get the ability to carry out land survey and quantity survey for various structures.
7. be able to read and interpret drawings of various structures.
8. be able to handle and manage various on site civil engineering activities.
9. acquire ability to study and interpret R.C structural drawings and also be able to assess the structural health.
10. acquire ability to study and interpret R.C structural drawings and also be able to assess the structural health.

COs	POs												PSOs		
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3
1	2	1	-	2	1	1	1	-	1	1	2	1	3	2	2
2	2	1	-	2	1	1	1	-	1	1	2	1	3	2	2
3	2	1	-	2	1	1	1	-	1	1	2	1	3	2	2
4	2	1	-	2	1	1	1	-	1	1	2	1	3	2	2
5	2	1	-	2	1	1	1	-	1	1	2	1	3	2	2
Average	2	1	-	2	1	1	1	-	1	1	2	1	3	2	2

UNIT -I:

Surveying: Preparation of Topo sheets - Identifying & locating strategic points on topo sheets - Hydrographic surveying - Quantity surveying for buildings, roads and earth work.

UNIT-II:

Drawing and detailing of Civil Engineering structures: Reading and interpretation of drawings pertaining to buildings, bridges and irrigation structures.

UNIT-III:

Building construction practices: Marking on site as per plans, Quality control checks - Related field tests - Planning and erection of form work - Execution /Construction planning M-book entries.

UNIT-IV:

Concrete Structures: Reading and interpretation of professional drawings of concrete structures (buildings, bridges, water tanks) - Detailing aspects - Detailed study of a distressed structure - NDT - Visit to a structure which is under retrofitting stage - Visit to a prefabricated structure.

UNIT V:

Steel Structures: Reading and interpretation of fabrication drawings and structural drawings of an industrial structure /any other steel structure. Detailed study of marking and execution of steel structure / industrial structure - Detailing of steel structures - Visit to an Industrial / Steel Structure.

Text Books:

- 1) Practical Civil Engineering by P.K. Jaya Sree, K Balan and V Rani, CRC Press (Taylor & FrancisGroup) 2021.

Suggested Reading:

1. Practical Civil Engineering, Hand Book by Rahul Nitin Gupta,



PROFESSOR & HEAD
DEPARTMENT OF CIVIL ENGINEERING
SRMISTECH INSTITUTE OF TECHNOLOGY
SRMISTECH, KATTANUR - 640 075

Professional Electives-5 (PE-5)

20 CE E17	Railway and Airport Engineering
20CE E18	Applications of Block Chain Technology in Civil Engineering
20CE E19	Design of Steel Structures II
20CE E20	Advanced Environmental Engineering

Open Electives - 3 (OE-3)

20CS 007	Basics of Machine Learning
20AD 001	Introduction to Python Programming
20IT 002	Principles of IoT

