

About the Institute

Chaitanya Bharathi institute of technology, established in the year 1979, a premier engineering institute in the states of Telangana and Andhra Pradesh, was promoted by Chaitanya Bharathi Educational Society (CBES) founded by a group of visionaries from varied professions. The institute was started with an objective to facilitate the best engineering education to the students and contribute towards meeting the need of skilled and technically conversant engineering professionals.

A list of few selected consultancy projects successfully completed by the department is given below:

1. Design of reservoir in RGIA, Hyderabad.
2. Proof checking for Jack well pump houses Irrigation Corporation – Telangana Government.
3. Project management services for the PEB structure of Salsar Balaji Textiles.
4. Structural Designs for the commercial complex of Skandanshi Infra Project Pvt. Ltd.
5. Design of Skew Bridges for Singareni Collieries
6. Design of Retaining Wall at Pochampadu
7. Non-Destructive Evaluation for flyovers in Hyderabad
8. Alignment survey for development of Cycle Track at Indira Park – Lower Tank Bund
9. Soil Testing & Safe Bearing Capacity Calculation for many construction firms
10. Water quality testing for various problematic areas of twin cities
11. SDBC Designs / Bitumen extraction tests for pavement construction quality control
12. Testing of reinforcement steels for various construction firms
13. Material testing for coarse aggregates, fine aggregates and cement for various types of works such as buildings, roads etc.

For Any Enquiries Contact:

Dr. K Jagannadha Rao
Professor and Head
Department of Civil Engineering, CBIT
Mobile: +91-9849075484
Email: hod_civil@cbit.ac.in

Major Clients:



...many more



**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

45

years



DEPARTMENT OF CIVIL ENGINEERING

About the Department

The Department of Civil Engineering at CBIT was established in the year 1979. The department offers a four years course leading to Bachelor's Degree in Civil Engineering and a two years course leading to Master's degree in Structural Engineering specialization. In total there are about 500 students pursuing Bachelor's degree and 48 students pursuing Master's degree in the Department. There are currently 3 Professors, 3 Associate Professors and 23 Assistant Professors working in the department with different specialized areas like Structural Engineering, Water Resources Engineering, Geo Technical Engineering, Transportation Engineering, Environmental Engineering and Construction Technology.

The department of Civil Engineering has three major missions:

1. Excellence in teaching and research
2. Relevance to industry and society
3. Contribution to sustainable development

The department has well equipped laboratories that cater to the needs of teaching, Research and consultancy. The academic programs of the department are among the best in the country. The department has been offering consultancy services in all the disciplines of Civil Engineering. Many of the existing faculty in the department are Ph.D holders from IITs & NITs. The Infrastructure available in the department facilitates students to develop their skill and knowledge within and beyond the framework of curriculum.

Some of the Available Major Equipment:

- | | |
|-----------------------------------|---|
| 1. Computerized 100T UTM * | 11. Water Permeability Test For Concrete* |
| 2. RCPT Test for Concrete* | 12. UPV Tester* |
| 3. Rebound Hamer | 13. Ductility Testing |
| 4. Bitumen Extraction Testing | 14. Tri-axial Shear Test * |
| 5. Loading Frame of Capacity 50T* | 15. Mini Shake Table |
| 6. CTM of Capacity 300T | 16. Accelerated Curing Tank |
| 7. Digital Dissolved Oxygen Meter | 17. Digital TDS Meter |
| 8. Digital pH Meter | 18. Muffle Furnace |
| 9. Total Station* | 19. Concrete Core Cutter* |
| 10. Compression Testing Machine* | |



*Some major equipment are shown.

Testing and Certification

On Bricks:

- | | |
|--------------------------|--------------------------|
| i) Water absorption test | ii) Compressive strength |
|--------------------------|--------------------------|

On Cement:

- | | |
|-------------------------------|------------------------------|
| i) Consistency, fineness | ii) Setting times, soundness |
| ii) Compressive strength test | |

On Sand:

- | | |
|--------------|--------------------------------|
| i) Fineness | ii) Specific Gravity |
| iii) Bulking | iv) Sieve Analysis (Gradation) |

On Aggregates:

- | | |
|-------------------------------|------------------------------------|
| i) Sieve analysis (Gradation) | ii) Crushing value |
| iii) Specific gravity | iv) Water absorption |
| v) Impact value | vi) Flakiness and Elongation index |
| vii) Abrasion value | |

On Steel:

- | | |
|------------------------------------|------------------|
| i) Tensile strength | ii) % Elongation |
| iii) Bend and rebend (Bendability) | vi) Proof stress |

On Concrete:

- | | |
|-------------------------|-----------------------------|
| i) Compressive strength | ii) Non-destructive testing |
| iii) Workability tests | |

On Water:

- | |
|------------------------|
| i) Water quality tests |
|------------------------|

On Highway Materials:

- | | |
|-----------------------|---------------------------------------|
| i) Penetration | ii) Ductility |
| iii) Viscosity | iv) Softening Point |
| v) Marshall Stability | vi) Bitumen extraction |
| vii) Road Unevenness | viii) SDBC and Rigid pavement Designs |

Other Services:

Structural designs and proof checking for all types of RC and Steel structures will be undertaken

Research Activities

The Civil Engineering faculty are actively involved in several R&D and consultancy activities relevant to their domains and are resolving problems pertaining to the construction industry and other Govt. and Private agencies. The department carries out research in the fields of Structural Engineering, geotechnical engineering, transportation engineering, environmental engineering and water resources engineering. The department carried out various research projects funded by AICTE, UGC etc.