YEARLY STATUS REPORT - 2021-2022

Part A

Data of the Institution

1.Name of the Institution

CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY

- Name of the Head of the institution

Prof. P. Ravinder Reddy

- Designation

PRINCIPAL

- Does the institution function from its own campus?

Yes

- Phone No. of the Principal

04024193276

- Alternate phone No.

8466997204

- Mobile No. (Principal)

8466997204

- Registered e-mail ID (Principal)

principal@cbit.ac.in

- Address

Chaitanya Bharathi PO, Kokapet(V), Gandipet (M), Ranga Reddy District,

- City/Town

Hyderabad

- State/UT

Telangana

- Pin Code

500075

2.Institutional status

- Autonomous Status (Provide the date of conferment of Autonomy)

23/05/2013

- Type of Institution

Co-education

- Location

Rural

- Financial Status   **Self-financing**

- Name of the IQAC Co-ordinator/Director   **Dr. N.V. Koteswara Rao**

- Phone No.   **04024193276**

- Mobile No: **9848244879**

- IQAC e-mail ID   **director_iqac@cbit.ac.in**

3.Website address (Web link of the AQAR (Previous Academic Year)   https://www.cbit.ac.in/wp-content/uploads/2019/04/AQAR-202-2021.pdf

4.Was the Academic Calendar prepared for that year?   **Yes**

- if yes, whether it is uploaded in the Institutional website Web link: https://www.cbit.ac.in/current_students/acedamic-calendar/

5.Accreditation Details

Cycle	Grade	CGPA	Year of Accreditation	Validity from	Validity to
Cycle 1	**B**	**2.73**	**2010**	**04/09/2010**	**03/09/2015**
Cycle 2	**A**	**3.11**	**2017**	**12/09/2017**	**11/09/2022**

6.Date of Establishment of IQAC   **27/04/2011**

7.Provide the list of Special Status conferred by Central and/or State Government on the Institution/Department/Faculty/School (UGC/CSIR/DST/DBT/ICMR/TEQIP/World Bank/CPE of UGC, etc.)?

Institution/ Department/Faculty/School	Scheme	Funding Agency	Year of Award with Duration	Amount
TEQIP	**Sub Component 1.1**	**MHRD**	**Nil**	**Nil**

8.Provide details regarding the composition of the IQAC:

- Upload the latest notification regarding the composition of the IQAC by the HEI   View File

9.No. of IQAC meetings held during the year   1

- Were the minutes of IQAC meeting(s) and compliance to the decisions taken uploaded on the institutional website?   **Yes**

- If No, please upload the minutes of the meeting(s) and Action Taken Report   No File Uploaded

10.Did IQAC receive funding from any funding agency to support its activities during the year?   **No**

- If yes, mention the amount

11.Significant contributions made by IQAC during the current year (maximum five bullets)

Feedback Process

Participation in NIRF Ranking

Participation in ARIIA Ranking

NEP-2020 preparedness

12.Plan of action chalked out by IQAC at the beginning of the academic year towards quality enhancement and the outcome achieved by the end of the academic year:

Plan of Action	Achievements/Outcomes
Curriculum	R-20 Curriculum is implemented for PG programme
Auditing of Departments	Audit is Carried out in the respective departments and audit findings are addressed
Self-Appraisal Report	Implemented
Visit by UG-NBA Committees	Five (5) UG programmes are Accredited by NBA
Self-Appraisal Report	Implemented
Feedback Process Implemented	The respective faculty are counselled by the respective Heads

13.Was the AQAR placed before the statutory body?   Yes

- Name of the statutory body

Name of the statutory body	Date of meeting(s)
Directors, HODs, IQAC Members	11/05/2022

14.Was the institutional data submitted to AISHE ?   Yes

- Year

Part A	
Data of the Institution	
1.Name of the Institution	CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY
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• Designation	PRINCIPAL
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• Alternate phone No.	8466997204
• Mobile No. (Principal)	8466997204
• Registered e-mail ID (Principal)	principal@cbit.ac.in
• Address	Chaitanya Bharathi PO, Kokapet(V), Gandipet (M), Ranga Reddy District,
• City/Town	Hyderabad
• State/UT	Telangana
• Pin Code	500075
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• Autonomous Status (Provide the date of conferment of Autonomy)	23/05/2013
• Type of Institution	Co-education
• Location	Rural
• Financial Status	Self-financing
• Name of the IQAC Co-	Dr. N.V. Koteswara Rao

ordinator/Director		
• Phone No.	**04024193276**	
• Mobile No:	**9848244879**	
• IQAC e-mail ID	**director_iqac@cbit.ac.in**	

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• if yes, whether it is uploaded in the Institutional website Web link:	https://www.cbit.ac.in/current_students/acedamic-calendar/

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Feedback Process
Participation in NIRF Ranking
Participation in ARIIA Ranking
NEP-2020 preparedness

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statutory body?

- Name of the statutory body

Name of the statutory body	Date of meeting(s)
Directors, HODs, IQAC Members	11/05/2022

14.Was the institutional data submitted to AISHE ?	**Yes**

- Year

Year	Date of Submission
2023	04/01/2023

15.Multidisciplinary / interdisciplinary

The Institution has been striving hard to transform itself into a university in the near future, so as to accommodate diversity through multi-disciplinary approaches. Proposals are already drafted for introducing B.Sc. (Mathematics), M.Sc.(Applied Mathematics) and a 4- year program me in computing mathematics and are under serious consideration of the authorities. As of now an MBA programme and an MCA Programme are being successfully run by the institute.

It is the policy of the institution in general to stick to the instructions of statutory bodies like AICTE,UGC etc., in designing the curriculum, giving due weightage (of nearly 18%) from the total credits to Humanities & social Science (HSS), including management, regulatory courses and Basic Sciences Courses (BSC).

At the same time, certain flexibility and innovation is incorporated in the curriculum by introducing open electives, Professional electives Provision for engineering degree & honors degree and credit transfer facility from MOOCS & Internships. Besides these, a scope is also created to make the students work in multidisciplinary areas such as community engagement & service, environmental education and rural internships.

Presently, lateral entry is permitted for all the Programs (except Biotechnology) at the 2nd year level for diploma and B.Sc. students. Bridge courses are designed as Prerequisites for them to facilitate smooth transition and completion of the programme. Plans are all also on, to permit the entry of B.Sc.(Electronics) and B.Sc. (computers) into BE(ECE) and BE (CSE) respectively, at the end of 2nd or 3rd year.

The institute has a well-established ACIC (Atal Community Innovation Centre) sponsored by NITI Ayog, New Delhi. This Centre is focusing on some of the important areas that the society is facing Pressing Challenges such as Agritech & food tech, health tech, Drone Technology, water sanitation & solid waste managements, environmental pollution control technology etc.,

In addition to this, institute has already established Robotics & drones lab, digital fabrication lab, breakers lab, makerspace, Idea lab sponsored by AICTE, to promote innovation and incubation for the benefit of the society.

16.Academic bank of credits (ABC):

One of the provisions of the National Education Policy 2020 (NEP 2020) is the introduction of the Academic Bank of Credits (ABC). ABC will allow students of undergraduate and postgraduate degree courses to exit the course and enter within a stipulated period. Academic Bank of Credits shall deposit Credits awarded by Registered Higher Education Institutions, for Courses pursued therein, in the Academic Bank Account of the student and the validity of such credits shall be as per norms and guidelines issued by the Commission from time to time.

A portal, https://www.abc.gov.in, has been launched, with the aim that HEI & Students can register in this portal. Students will be allowed to earn credits through various HEIs registered under this scheme and courses offered under National schemes by SWAYAM, NPTEL, V-Lab, etc.

Institutional registration on the portal https://www.abc.gov.in has been completed. Faculties are encouraged to design their own curricular and pedagogical approaches within the approved framework, including text books, reading material selections, assignments, and assessments etc. The various committees to guide in this regard are Course Experts Groups, Board of Studies,

Academic council, Governing Body. Circular on creating awareness on Academic Bank of Credit has been sent to the students. Final year students are instructed to create a login on the portal.

The data required in the specified format is not available with the present ERP software provider. New ERP software will shortly be installed and the data as per the formats specified will be prepared and uploaded to the portal.

17.Skill development:

CBIT focusses on skill development to enable the students for acquiring desired competency levels.

In this context, institute has

- Implemented a curriculum and syllabus in the paradigms of Outcome Based Education
- Being as an autonomous institution, CBIT gives highest priority to skill development. In R-20, apart from the from regular lab courses, seminars, mini-projects, and project courses, three mandatory internships for 7 credits are introduced to promote skill development apart
- Institute has a dedicated centre name "Career Development Centre" for providing the required training, skill development and placement support.
- Also signed on MoUs with various organizations and institutes for creating awareness on emerging courses, industry technologies, projects, practices.
- In addition, the institute provides capacity building programs and skill inculcation programs to final UG and PG students under the guidance of CDC.
- Students are offered with value-added courses based on skills for the skill development. These value-added courses include Communication Skills, Foreign Languages, TOEFL, GRE and GATE coaching, Emerging Technologies like IoT, Cyber Security, Data Science, Machine Learning, Robotics, Blockchain, Python, and R Programming, etc.
- Courses in all programs are organized in such a way that students get opportunities for experimental learning and skill development through internships, field works, industrial visits, project works and hands-on learning methods
- Every department offers a credit Courses on Employability Skills, Basics of Data Structures and certificate courses for employability and skill development.

- In order to provide value-based education, institute provides courses and events on professional ethics, research ethics, Indian Constitution, life-skills and code of conduct.
- The R-20 curriculum provides an opportunity for the students to acquire additional knowledge and skills through Minor Engineering and Honours Degree programs.
- In addition, days of importance are observed to inculcate the values of truth, justice, peace, love, and non-violence.

18.Appropriate integration of Indian Knowledge system (teaching in Indian Language, culture, using online course)

Relevance with NEP Policy.

The rich heritage and eternal knowledge created and acquired by Indians over several millennia in the Indian subcontinent .The rich heritage of ancient and eternal Indian Knowledge and thought has been a guiding light for this policy.

- Curricular integration of essential subjects, skills and capacities: sections 4.27; 4.28 and 4.29.
- Towards more holistic and multi-disciplinary education :sections 11.1;11.4; 11.7 and 11.8
- Catalyzing quality academic research in all fields through a National Research Foundation:sections17.7
- Professional education: section 20.3
- Promotion of Indian Languages , arts and culture: section 22

Indian Knowledge system [IKS] repositories can be bifurcated as under

- Systematized Knowledge : Manuscripts, and Shastraas.
- Traditional knowledge : Oral traditions , Folk songs, Stories, Arts, handicrafts

Current models of development are unsustainable and are in direct conflict with nature. Hence a dire need for the new Paradigm of development.

In order to meet the requirements of the students an exclusive students' club is initiated and christened as GEERVANA BHARATHI [The Sanskrit Club of CBIT] with the following objectives in 2017.

Objectives of Geervana Bharathi:

- To promote interdisciplinary research on all aspects of Indian Knowledge Systems,
- To preserve, and disseminate Indian Knowledge Systems for further research and societal applications,
- To infuse confidence in the younger generation about our own heritage [Atma Nirbhar Bharath)
- To highlight the significance of Sanskrit in Personal and Professional life too

As an attempt, in R-18, PG Program of ME (PSPE) a course: Sanskrit for Technical Knowledge is deigned and listed under Open Elective.

UG Program a course: Indian Traditional Knowledge as mandatory Faculty are encouraged to give instruction in Local Language (Telugu) also to complement and supplement the understanding of the student particularly in Laboratory classes.

Programmes conducted by Geervana bharathi:

- One day Symposium on "significance of Sanskrit for Technological Research" on 08.09.2018
- International Conference on Vedic Mathematics on 29 - 31 Aug 2019.
- Bharateeya Chaitanyam on 29 - 05 July 2021.
- Collective Prayer cum Preach Session to combat COVID 19 on 11.04.2021.
- Prachodan -Series of webinars on 26.02.2022

Our Faculty has associated with IKS of AICTE and recognized mentor [BJS1_M26]. They are supervising Two Interns on the domain Applications of Vedic Mathematics to Engineering.

Future plans:

- To preserve original traditions, texts through appropriate means
- To collaborate with scholars, artists and experts
- To research by studying original texts and understanding their relevance for sustainable societal problems
- To develop specific courses focusing on IKS
- To infuse IKS into existing courses using relevant examples and concepts
- To disseminate knowledge.

CBIT is progressing to meet the objectives of IKS in line with NEP 2020 Under the banner of GEERVANA BHARATHI- Chaitanya Sahiti of Chaitanya Samskruthi with a motto: Gyanam Bharah Kriyam Vina

19.Focus on Outcome based education (OBE):Focus on Outcome based education (OBE):

The Institute has conferred UGC Autonomous status from the academic year 2013-14 and designed the curriculum and syllabus, referred as R-13 Regulation. From the academic year 2016-17 the Institute has adopted Choice Based Credit System (CBCS); accordingly, the revision of the syllabus (R-16 Regulation) has been carried out. The subsequent revision of the syllabus (R-18 Regulation), was done in line with AICTE Model Curriculum from academic year 2018-19 onwards. From R-18 curriculum onwards students are having a provision to acquire Honors /Additional Minor Engineering degree by earning 20 credits additionally through MOOCs. The R-20 curriculum is enriched with courses like Engineering Exploration, Community Engagement, Universal Human Values-2, Mandatory Internships and activity points (e-portfolio).

The Program curricula for UG and PG programs at CBIT mainly focuses on the Outcome Based Education and it is structured in such a way that it suits the current technology, industrial needs, requirements for continuing higher education, research and also helps the students in securing employment in different organizations. In the process of designing and developing the curriculum the departments have exercised in collecting the feedback from all the internal Stakeholders (Faculty, Students) and external Stakeholders (Alumni, Parents, Employers / Recruiters and Experts from Industry and R & D organizations). Curricular gaps are identified by Course Expert Groups (CEGs) through the feedback received from alumni/ outgoing students/ industry and the same is discussed in the department meetings to fill the gaps and accordingly revision has been made in sub-sequent curricula.

In all the regulations, Vision, Mission, POs and PSOs are also taken into account while drafting the curriculum. The draft copy of curriculum is sent to Program Assessment Quality Improvement Committee (PAQIC) and Department Advisory Committee (DAB) for further suggestions. Then, it will be presented to BoS meeting for thorough discussion. The BoS includes the experts from Industry, Academia, R&D organizations and also Alumni. Later it will be presented to Academic Council to seek the approval, where Academic Council includes the members from user industry,

academia from reputed institutions such as IITs/NITs, Universities, R&D Organizations.

The Teaching and Learning process is given the foremost importance in the Institute. Quality improvement in teaching and learning is achieved through well-defined processes. Institution is more focused on implementing OBE to nurture students' skills, knowledge and attitude. Learner centric pedagogical approaches are adopted by all the faculty members. They are

1. Experiential Learning Methodologies
2. Participative Learning Methodologies
3. Problem Solving methodologies

The Information Communication Technology (ICT) tools used in CBIT includes LCD projector, CBIT ERP system, GOOGLE MEET, WEBX platforms and CBIT Learning Management System.

CBIT Learning Management System:
https://learning.cbit.org.in/login/index.php

Every faculty has account in Learning Management System. The courses are created for respective faculty and students of that course are enrolled. Learning material related to the course is uploaded. The contents of the course are:

- Unit wise Notes
- Question Bank
- Lecture Recordings
- Slip Tests
- Assignments

The Institute's Library is maintaining the digital repository of course material for all the courses of UG and PG programs.

20.Distance education/online education:

The Institute has excellent infrastructural facilities along with ICT enabled tools to have and offer an online/blended education to its students. It has been a practice in the Institute in offering and using these facilities for an effective and outcome oriented education. Few of such significant practices are mentioned as follows:

- Institute promotes the usage of ICT enabled classrooms which are equipped with overhead projectors, screen and

internet/Wi-Fi facility. Each department has a dedicated e-classroom with an additional smart board facility. Every computer laboratory has a 1:1 Student to Computer Ratio while they are in use, and all of the machines have latest configuration and LAN connectivity. All of the classrooms and laboratories are equipped with dual facilities allowing instructors to switch between LCD projectors and white board as needed.

- The Central Library of the Institute has adequate number of LAN connected computers, where students can access digital materials including IEEE, Springer, Elsevier, ASCE, ASME Journals, NPTEL Courses, etc. All the available and subscribed e- resources are provided I.P based access and these resources can be accessed from any computer connected in the campus LAN. The library has introduced a Remote Access facility in 2021 for faculty members and students through login ID and Password. This facility enables the library users to access subscribed online databases/e-Journals/e-books from the off campus / home. This service was effectively used by library users during the COVID period.
- The institute has a customized Learning Management System (LMS) with an access to all the faculty and students. This platform is used to upload lecture videos, course material, assignments and to conduct online proctored examinations.
- The Institute is maintaining the digital repository of course material for all the courses of UG and PG programs.
- Institute has MoU with 42learn.com to facilitate offering of online courses to broadcast the recorded video lectures for UG and PG programs. These video lectures include regular courses and other industry relevant courses to fulfill and bridge the skill-gap requirements in the market and Industry. This MoU also includes promoting CBIT as a regional Hub for training and promoting skill development courses. The Institute has established a fully furnished, air-conditioned space with an adequate seating capacity and a room for digital recording and editing of the content. The equipment provided by the Company include 4K Camera, LED Lights, Green Mat, and Focus Lights.
- The Institute further plans to offer online pre-placement training programs.
- The Institute in partnership with Atal Incubation Centre shall facilitate industry trainers and its alumni to conduct relevant programs and subsequently provide placements for students.
- Online executive programs for working professionals for

        professional development.
- **To digitize regular courses by involving faculty, alumni and industry experts to offer to students.**
- **Institute has established facilities to conduct online courses and training programs for faculty and students. The institute procured licenses for Cisco-Webex and Microsoft Teams for smooth conduct of online sessions.**

The Institute achieved its vision and goals with the above mentioned practices with ease and effectiveness. This is evident and witnessed during the pandemic period. Institute will also strive to do its bit with best of its capability by using and enhancing these online educational facilities in the near future for the holistic development of the institute and welfare and wellbeing of future citizens as nation builders.

Extended Profile

1.Programme

1.1 Number of programmes offered during the year:	**22**

File Description	Documents
Institutional Data in Prescribed Format	[View File](#)

2.Student

2.1 Total number of students during the year:	**5527**

File Description	Documents
Institutional data in Prescribed format	[View File](#)

2.2 Number of outgoing / final year students during the year:	**1288**

File Description	Documents
Institutional Data in Prescribed Format	[View File](#)

2.3 Number of students who appeared for the examinations	**5239**

conducted by the institution during the year:

File Description	Documents
Institutional Data in Prescribed Format	View File

3.Academic

3.1

Number of courses in all programmes during the year:

1296

File Description	Documents
Institutional Data in Prescribed Format	View File

3.2

Number of full-time teachers during the year:

303

File Description	Documents
Institutional Data in Prescribed Format	No File Uploaded

3.3

Number of sanctioned posts for the year:

303

4.Institution

4.1

Number of seats earmarked for reserved categories as per GOI/State Government during the year:

626

4.2

Total number of Classrooms and Seminar halls

114

4.3

Total number of computers on campus for academic purposes

2409

4.4

Total expenditure, excluding salary, during the year (INR in Lakhs):

1405.06

Part B

CURRICULAR ASPECTS

1.1 - Curriculum Design and Development

1.1.1 - Curricula developed and implemented have relevance to the local, national, regional and global developmental needs which are reflected in Programme Outcomes (POs), Programme Specific Outcomes (PSOs) and Course Outcomes (COs) of the various Programmes offered by the Institution.

TheInstitute has been conferred UGC Autonomous status from the academic year 2013-14 and designed thecurriculum and syllabus, referred as R-13 Regulation. From the academic year 2016-17 the Institute hasadopted Choice Based Credit System (CBCS); accordingly, the revision of the syllabus (R-16 Regulation)has been carried out. The subsequent revision of the syllabus (R-18 Regulation), was done in line withAICTE Model Curriculum from academic year 2018-19 onwards.

The institute has conducted a series of interactive sessions with the stakeholders to evolve an acceptablerestructured engineering curriculum, R-20, that is in force from 2020-21 academic year based on theguidelines provided by AICTE's model curriculum and guidelines of NEP-2020. Accordingly, the institutehas developed the model curriculum(R-20) with 160 credits for UG programs and 68-112 credits forvarious streams of Postgraduate Programs. A provision has been made to complete online certificationcourses through MOOCs for academic credit transfer. Students will be allowed from I to VIII semestersfor a maximum of 20% of the credits in each semester. The R-20 curriculum is enriched with the courseslike Engineering Exploration, Community Engagement, Universal Human Values-2, MandatoryInternships and activity points.

File Description	Documents
Upload additional information, if any	View File
Link for additional information	https://www.cbit.ac.in/current_students/ug-and-pg-syllabus-structure/

1.1.2 - Number of Programmes where syllabus revision was carried out during the year

22

File Description	Documents
Minutes of relevant Academic Council/BOS meeting	[View File](#)
Details of syllabus revision during the year	[View File](#)
Any additional information	[View File](#)

1.1.3 - Number of courses focusing on employability/entrepreneurship/ skill development offered by the Institution during the year

1166

File Description	Documents
Curriculum / Syllabus of such courses	[View File](#)
Minutes of the Boards of Studies/ Academic Council meetings with approval for these courses	[View File](#)
MoUs with relevant organizations for these courses, if any	[View File](#)
Any additional information	[View File](#)

1.2 - Academic Flexibility

1.2.1 - Number of new courses introduced across all programmes offered during the year

1166

File Description	Documents
Minutes of relevant Academic Council/BoS meetings	[View File](#)
Any additional information	[View File](#)
Institutional data in prescribed format (Data Template)	[View File](#)

1.2.2 - Number of Programmes offered through Choice Based Credit System (CBCS)/Elective Course System

22

File Description	Documents
Minutes of relevant Academic Council/BoS meetings	View File
Any additional information	View File
List of Add on /Certificate programs (Data Template)	View File

1.3 - Curriculum Enrichment

1.3.1 - Institution integrates cross-cutting issues relevant to Professional Ethics, Gender, Human Values, Environment and Sustainability, and Human Values into the curriculum

All the programsoffer the courses as a part of the curriculum, which integrates the mainstreaming cross-cutting issuesrelevant to Gender, Environment Sustainability, Human Values and Professional Ethics. In order tosensitize the student on the global issue of gender inequality and discrimination the institute offers GenderSensitization course to all its students. As part of curriculum, EnvironmentalScience and Disaster Mitigation Management courses were offered as mandatory courses with an intent toraise the student awareness and prepare them to become responsible citizens who can work to put an effortto make the environment clean.

A large number of students participate in the NSS program for blood donation camps, cleanliness,plantation of trees .Various activities were conducted by Parivritha club of CBIT to help the students tounderstand the importance of environment.

As a part of the Student Induction Program(SIP), UHV-I has been taught.

In addition, Engineering Exploration and Community Engagement courses are offered to freshmanstudents. The institute constantly makes all efforts to sensitize the students' behavioral and ethical levels interms of the cross-cutting issues like Gender, Environment, sustainability, Human Values and Professionalethics to confidently face the real time challenges in their careers.

File Description	Documents
Upload the list and description of the courses which address issues related to Gender, Environment and Sustainability, Human Values and Professional Ethics in the curriculum	View File
Any additional information	View File

1.3.2 - Number of value-added courses for imparting transferable and life skills offered during the year

199

File Description	Documents
List of value-added courses	View File
Brochure or any other document relating to value-added courses	View File
Any additional information	View File

1.3.3 - Number of students enrolled in the courses under 1.3.2 above

7817

File Description	Documents
List of students enrolled	View File
Any additional information	View File

1.3.4 - Number of students undertaking field work/projects/ internships / student projects

3943

File Description	Documents
List of programmes and number of students undertaking field projects / internships / student projects	View File
Any additional information	View File

1.4 - Feedback System

1.4.1 - Structured feedback and review of the syllabus (semester-wise / year-wise) is	A. All 4 of the above

obtained from 1) Students 2) Teachers 3) Employers and 4) Alumni

File Description	Documents
Provide the URL for stakeholders' feedback report	https://www.cbit.ac.in/about_post/structured-feedback-for-design-and-review-of-syllabus/
Upload the Action Taken Report of the feedback as recorded by the Governing Council / Syndicate / Board of Management	View File
Any additional information	View File

1.4.2 - The feedback system of the Institution comprises the following	**A. Feedback collected, analysed and action taken made available on the website**

File Description	Documents
Provide URL for stakeholders' feedback report	https://www.cbit.ac.in/about_post/1-4-2-the-feedback-system-of-the-institution-2/
Any additional information	View File

TEACHING-LEARNING AND EVALUATION

2.1 - Student Enrollment and Profile

2.1.1 - Enrolment of Students

2.1.1.1 - Number of students admitted (year-wise) during the year

1663

File Description	Documents
Any additional information	View File
Institutional data in prescribed format	View File

2.1.2 - Number of seats filled against reserved categories (SC, ST, OBC, Divyangjan, etc.) as per the reservation policy during the year (exclusive of supernumerary seats)

806

File Description	Documents
Any additional information	[View File](#)
Number of seats filled against seats reserved (Data Template)	[View File](#)

2.2 - Catering to Student Diversity

2.2.1 - The institution assesses students' learning levels and organises special programmes for both slow and advanced learners.

Continuous Internal Evaluation (CIE) process starts after four weeks from the commencementof classwork. At the end of each Semester End Examination (SEE) is conducted. The CIE and SEE havebeen planned such that students are assessed at various stages. Based on the performances in CIE andprevious SEE, Slow and Advanced Learners are dentified. Along with other students slow and advancedlearners are provided with different opportunities to enhance their skills.

SLOW LEARNERS:

Students scoring average CGPA of less than 5.0 are considered as slow learners.

The following special measures are taken to improve their learning experiences:

- **Remedial Classes**
- **Student Mentoring System**
- **Tutorial Classes**
- **Project Groups**
- **Language Ability -Phonetics lab**

ADVANCED LEARNERS:

Students scoring more than 7.5 CGPA are considered to be advancedlearners. Various opportunities made available to these students to enhance their knowledge and skills.

- **Honours & Additional Minor Engineering -20 additional creditsthrough MOOCs**
- **Credit Transfer:40% of the total credits in each semester can be earned through MOOCs, whichpeer group can pursue through MOOCs and utilize the time uponpursuing real time projects /industrial internships.**

- **Hackathons**
- **Exposure to Advanced Technology Experience**
- **Projects and Internships**
- **Campus Recruitment Training**
- **Encouragement for Co-curricular Activities**

File Description	Documents
Upload any additional information	[View File](#)
Paste link for additional information	https://www.cbit.ac.in/about_post/2-2-1-catering-to-student-diversity/

2.2.2 - Student – Teacher (full-time) ratio

Year	Number of Students	Number of Teachers
01/07/2021	**5527**	**303**

File Description	Documents
Upload any additional information	[View File](#)

2.3 - Teaching- Learning Process

2.3.1 - Student-centric methods such as experiential learning, participative learning and problem-solving methodologies are used for enhancing learning experiences:

The Teaching and Learning process is given the foremost importance in the Institute. Quality improvementin teaching and learning is achieved through well-defined processes. Institution is more focussed onimplementing OBE to nurture students' skills, knowledge and attitude. Learner centric pedagogicalapproaches are adopted by all the faculty members.

EXPERIENTIAL LEARNING:

One of the finest ways to teach original problem-solving is through experiential learning. Students areencouraged to look for their own special answer to practical tasks when learning about real-world topics.

Methodologies practiced:

- **Industrial Internships/ Industrial Visits**

- Rural Internships/ Community Engagement
- Learning by Doing through Laboratory Courses and Projects
- Demonstrations of working models through Project Expos
- Mock Interviews -Career Development Cell to boost students confidence to face various scenarios encountered on a jobinterview.
- CALL-Computer Aided Language Learning

PARTICIPATIVE LEARNING:

Institute promotes participative learning by encouraging students to take part in group activities.

Methodologies practiced:

- Flipped Classes
- Hackathons/ Ideathons
- ICS-Interactive Communication Skills
- Hands-on Training programs/workshops
- Technical Clubs
- MOOCs Courses

PROBLEM SOLVING METHODOLOGIES:

Students are engaged in various problem solving activities that enable them to apply their knowledge tosolve real world problems.

Methodologies practiced:

- Course End Projects
- Mini and Major Projects
- Open ended problems
- Structured Enquiry
- Group Assignments
- Crossword Puzzles and Quizzes

File Description	Documents
Upload any additional information	[View File](#)
Link for additional Information	https://www.cbit.ac.in/wp-content/uploads/2022/12/2.3.1_NAAC-2.3.1-signed-30mb-03122022.pdf

2.3.2 - Teachers use ICT-enabled tools including online resources for effective teaching and

learning

The students are given specific assignments or slip tests at the conclusion of each unit of instructionutilising the CBIT-Learning Management System or other ICT platforms, hich enhances their learning byhaving them solve problems. As a result, the blended learning approach, which mixes in-person tutoringwith online learning, is widely practiced in the Institute. ICT components are incorporated into allacademic departments' course materials. These components include open-source and licensed software forcomputation and simulation, such as the use of MATLAB for the solution of differential or linear equationsand statistical analysis of experimental data in project work. Power-point presentations, videoconferencing, and educational websites are all examples of ICT used for course delivery. The CBIT-LMSis an essential ICT tool for managing the learning process and resources. It also allows for the monitoringof students' learning progress through online quizzes and the submission of online assignments, amongother things. It supports our students' participation in flipped classrooms, blended learning, and other elearningprojects.

The ICT enabled Teaching-Learning Process is supported by Regular Practical Sessions, Digital LibraryAccess, Online Courses including NPTEL and other MOOCs, Online Journals, Online Tests, Use of LCDProjectors for Seminars and Workshops, Effective Use of Educational Videos, and Accessibility of Non-Print Material for Students of different programs. The Information Communication Technology (ICT)tools used in CBIT includes LCD projector, Smart boards, CBIT ERP system, GOOGLE MEET, WEBEXplatforms and CBIT Learning Management System.

File Description	Documents
Provide link for webpage describing ICT enabled tools including online resources for effective teaching and learning process	https://www.cbit.ac.in/current_students/ict-tools/
Upload any additional information	View File

2.3.3 - Ratio of students to mentor for academic and other related issues

2.3.3.1 - Number of mentors

380

File Description	Documents
Upload year-wise number of students enrolled and full-time teachers on roll	View File
Circulars with regard to assigning mentors to mentees	View File

2.3.4 - Preparation and adherence to Academic Calendar and Teaching Plans by the institution

a) Preparation of Almanac:

The calendar/almanac includes course registration and 15-17 weeks of instruction withexamination schedule dates (including the Continuous Internal Evaluation (CIE) and excluding theSemester End Examination (SEE)). The almanacs duly approved in the Academic Council are uploadedin the Institute website. All the academic departments strictly adhere totheAlmanac.Almanac/Academic calendar includes the following academic activities:

* Course Registration
* Date of commencement of the Semester
* Schedule of Continuous Internal Evaluation (CIE) for courses
* Sudhee (Technical Fest)
* Shruthi (Cultural and Sports Fest)
* Research Day
* Commencement of Practical and Semester End Examinations
* Date of commencement of forthcoming semester etc.

b) Adherence to Academic Calendar:

The departments prepare an action plan in order to adhere to the almanac and academic calendar. Mentoring hour and Fit India hour are included in the timetable. All the faculty members handling therespective courses prepare the corresponding academic Teaching/Lesson plan in the prescribed format inline with the Almanac.

For each course, three Academic Audits are conducted by IQAC foreach semester. Audit-1 includes majorly focuses on verification of course files. Audit-2 is conducted afterClass test-1, to identify slow learners based on class test-1 performance and accordingly remedial classesare planned. Audit-3 is conducted after SEE results to verify the attainment of CO. At the end of everysemester, consolidated statement of CIE marks is displayed in notice board. Due to Covid -19 lockdownalmanacs revised.

Departments are adhere to the revised almanac.

File Description	Documents
Upload the Academic Calendar and Teaching Plans during the year	View File

2.4 - Teacher Profile and Quality

2.4.1 - Number of full-time teachers against sanctioned posts during the year

380

File Description	Documents
Year-wise full-time teachers and sanctioned posts for the year	View File
List of the faculty members authenticated by the Head of HEI	View File
Any additional information	View File

2.4.2 - Number of full-time teachers with PhD/ D.M. / M.Ch. / D.N.B Super-Specialty / DSc / DLitt during the year

174

File Description	Documents
List of number of full-time teachers with PhD./ D.M. / M.Ch. / D.N.B Super-Specialty / D.Sc. / D.Litt. and number of full-time teachers for 5 years	View File
Any additional information	View File

2.4.3 - Total teaching experience of full-time teachers in the same institution: (Full-time teachers' total teaching experience in the current institution)

3334

File Description	Documents
List of teachers including their PAN, designation, Department and details of their experience	View File
Any additional information	View File

2.5 - Evaluation Process and Reforms

2.5.1 - Number of days from the date of last semester-end/ year- end examination till the declaration of results during the year

38

File Description	Documents
List of Programmes and the date of last semester-end / year-end examinations and the date of declaration of result	View File
Any additional information	View File

2.5.2 - Number of students' complaints/grievances against evaluation against the total number who appeared in the examinations during the year

930

File Description	Documents
Upload the number of complaints and total number of students who appeared for exams during the year	View File
Upload any additional information	View File

2.5.3 - IT integration and reforms in the examination procedures and processes including Continuous Internal Assessment (CIA) have brought in considerable improvement in the Examination Management System (EMS) of the Institution

Examination Tool Software:

- **As per IT Policy of CBIT, the software is procured for smooth conduction of examinations.**
- **The examination branch has Examination Tool software to integrate all the activities of exam cell.The pre and post examination activities are integrated through this software tool.**
- **Payment gateway is also available for the payment of exam fees online by the students to make theregistrations online for various services.**
- **The software is enabling the student to download the hall tickets and results online through thestudent info system.**
- **Complete automation of examination process helps in the successful execution of examinationprocesses such as**

monitoring of examination fee payment, examination schedule, seating arrangement, attendance monitoring, coding and decoding of scripts, scanning of award slips,marks data entry,processing of results, preparation of programme wise results, uploading the resultsinto student info.

- The Software will provide the of login details of employees to provide the security.
- The data processing center is equipped with CC Camera system and videos can be monitored formore security.
- The spot valuation center is also equipped with electric magnetic door locking system.
- By running TURNITIN software, M.E/M.Tech thesis plagiarism check is carried out at thedepartments.
- The BET server is protected by firewall applications.

File Description	Documents
Upload any additional information	[View File]()
Paste link for additional Information	https://www.cbit.ac.in/wp-content/uploads/2022/12/2.5.3_IT-Intrgration_Final-File.pdf

2.6 - Student Performance and Learning Outcomes

2.6.1 - Programme Outcomes and Course Outcomes for all Programmes offered by the institution are stated and displayed on the website and communicated to teachers and students

Communication to the Students:

- The POs and PSOs of all programmes are printed in the College Manual which is provided to all
- students
- POs, PSOs and COs of all the programmes are displayed on the College website
- PSOs and COs of respective programmes and courses are published on the departmental portal.
- POs, PSOs are displayed on the Notice Boards
- Soft copies of syllabus with PSOs and COs are shared with the students through Learning
- Management System, mail and whatsapp groups by individual Faculty.
- Hardcopy of the syllabi with POs, PSOs and COs is maintained in every department for ready
- reference
- During the Students Induction Programme, POs and PSOs are

explained to the new admissionsextensively in detail
- Teachers who offer various courses explain the relationship of each course outcome with POs andPSOs at the beginning of semester
- Curricular and co-curricular activities are organized in congruence with the Vision, Mission, POsand PSOs

Communication to the Faculty:

- The faculty are primarily involved in the drafting of POs, PSOs and COs takes place during therevision/drafting of the syllabus and thus have very good awareness on the same
- The POs, PSOs and COs are communicated to the faculty through orientation programmes,Institutional faculty development programmes and departmental council meetings

Communication to other stakeholders:

- The alumni and employers are communicated with the POs, PSOs and COs through the collegewebsite.
- The parents are given awareness on the Programme Outcomes and OBE paradigm
- During orientation program and Parent Teacher Meetings.

File Description	Documents
Upload COs for all courses (exemplars from the Glossary)	View File
Upload any additional information	View File
Link for additional Information	https://www.cbit.ac.in/wp-content/uploads/2022/12/2.6.1-CBIT_OBE-MANUAL.pdf

2.6.2 - Attainment of Programme Outcomes and Course Outcomes as evaluated by the institution

Computation of CO attainment: Assessment Tools:

CO - ASSESSMENT PROCEDURE:

- The COs for each question is specified in the Question paper.
- From the Answer scripts the question- wise marks obtained by

each student is noted.
- The Question wise marks are then converted to CO-wise marks.
- The maximum marks allotted to each CO is calculated.
- Based on the maximum marks allotted to COX, a threshold level of COX is calculated. where, X ranges from 1 to 6:

Threshold level CO? = (Max Marks Allotted CO? ? Threshold_percentage)/100

- Threshold % is set by the CEG group which expects the student to achieve for a particular CO. This percentage is expected to increase on a continuous basis.
- Now the percentage of students scoring above threshold level (S) is calculated for each CO.

PO / PSOs - Assessment Tools:

PO / PSO - ASSESSMENT PROCEDURE:

Direct Attainment

- The attainment of POs / PSOs are calculated based on the CO attainment.
- The POs / PSOs attainment is calculated by multiplying the CO attainment value and the CO-PO correlation value, where COs contribution factor is 3, 2 and 1 for High, Medium and Low contribution respectively, towards POs / PSOs.
- Example calculation is shown below:

PO / PSO - ASSESSMENT PROCEDURE:

Indirect Attainment

- All the feedbacks/Surveys of the stakeholders (Program Exit Survey, Employer, Alumni and Parents) are collected and consolidated.
- Consolidated average values (Responseavg) are multiplied by the corresponding correlation factors of PO/PSO.
- Indirect Attainment value is calculated as follows:

File Description	Documents
Upload any additional information	View File
Paste link for additional Information	https://www.cbit.ac.in/about_post/2-6-2-attainment-of-programme-outcomes-and-course-outcomes-are-evaluated-by-the-institution/

2.6.3 - Pass Percentage of students

2.6.3.1 - Total number of final year students who passed in the examinations conducted by Institution

1293

File Description	Documents
Upload list of Programmes and number of students appear for and passed in the final year examinations	View File
Upload any additional information	View File
Paste link for the annual report	https://www.cbit.ac.in/wp-content/uploads/2022/11/2.6.3_Annual-Report-2020-21-link.pdf

2.7 - Student Satisfaction Survey

2.7.1 - Student Satisfaction Survey (SSS) on overall institutional performance (Institution may design its own questionnaire). Results and details need to be provided as a weblink

https://www.cbit.ac.in/wp-content/uploads/2022/07/Student-Satisfaction-Survey-on-Teaching-Learning-Process-AQAR-2021-22.pdf

RESEARCH, INNOVATIONS AND EXTENSION

3.1 - Promotion of Research and Facilities

3.1.1 - The institution's research facilities are frequently updated and there is a well-defined policy for promotion of research which is uploaded on the institutional website and implemented

A State-of - the- Art Research and Entrepreneurship HUB(R&E Hub) with a built-up area of 35,000Sft. was established in the year 2018 and is headed by a director. It has two main wings namely Research and Development(R&D) Centre and Innovation and Incubation

Cell(IIC) and are headed by to separate directors. R&E Hub mainly focuses on enhancing the Research, Innovation and Incubation activities and cultivates a pleasant research atmosphere. The objective of the R&D centre is to create a high-quality research environment in the institute that helps to take up advanced research activities. It creates an ecosystem both in terms of infrastructure and scholastics that would enable the faculty members and students to take up research in specific areas of Engineering and Technology.

R&E Team:

Research Facilities:

HEXAGON-3D Innovation Lab:

R&D is guided by Research Advisory committee(RAC) and supported by departmental research coordinators to promote research activities. In addition, each department has its own Department Research Committee(DRC) to promote and monitor the research activities at department level. Five departments are recognized as research centres under Osmania University with more than 350 researchers in the institute. R&D has been interacting with industry and Government agencies to get more sponsored and consultancy projects. Institute has more than 60 MOUs for cooperative research. Under I&I, there are three important cells namely Start-up cell, IPR cell and MSME Incubation cell.

File Description	Documents
Upload the Minutes of the Governing Council/ Syndicate/Board of Management related to research promotion policy adoption	View File
Provide URL of policy document on promotion of research uploaded on the website	https://www.cbit.ac.in/wp-content/uploads/2022/11/CBIT_Research-Policy.pdf
Any additional information	View File

3.1.2 - The institution provides seed money to its teachers for research

3.1.2.1 - Seed money provided by the institution to its teachers for research during the year (INR in lakhs)

`92.98`

File Description	Documents
Minutes of the relevant bodies of the institution regarding seed money	*View File*
Budget and expenditure statements signed by the Finance Officer indicating seed money provided and utilized	*View File*
List of teachers receiving grant and details of grant received	*View File*
Any additional information	*View File*

3.1.3 - Number of teachers who were awarded national / international fellowship(s) for advanced studies/research during the year

`82`

File Description	Documents
e-copies of the award letters of the teachers	*View File*
List of teachers and details of their international fellowship(s)	*View File*
Any additional information	*View File*

3.2 - Resource Mobilization for Research

3.2.1 - Grants received from Government and Non-Governmental agencies for research projects, endowments, Chairs during the year (INR in Lakhs)

`97.96`

File Description	Documents
e-copies of the grant award letters for research projects sponsored by non-governmental agencies/organizations	*View File*
List of projects and grant details	*View File*
Any additional information	*View File*

3.2.2 - Number of teachers having research projects during the year

102

File Description	Documents
Upload any additional information	View File
Paste link for additional Information	https://www.cbit.ac.in/wp-content/uploads/2022/07/3.2.2-Link.pdf
List of research projects during the year	View File

3.2.3 - Number of teachers recognised as research guides

32

File Description	Documents
Upload copies of the letter of the university recognizing teachers as research guides	View File
Institutional data in Prescribed format	View File

3.2.4 - Number of departments having research projects funded by Government and Non-Government agencies during the year

10

File Description	Documents
Supporting document from Funding Agencies	View File
Paste link to funding agencies' website	https://www.cbit.ac.in/wp-content/uploads/2022/07/3.2.2-Link.pdf
Any additional information	View File

3.3 - Innovation Ecosystem

3.3.1 - Institution has created an ecosystem for innovations and creation and transfer of knowledge supported by dedicated centres for research, entrepreneurship, community orientation, incubation, etc.

MSME Incubation Centre and Alumni: CBIT has established its Business incubator with MSME. Six MSME Start-upsare being mentored for Innovative product development. The Alumni Relations Team

engages in variousinitiatives to connect with the alumni at various platforms to assist the students, Start-ups and innovators.

Institute Innovation Cell and ARIIA Ranking: IIC organised 50 Plus Programs relating to ideation,Problem solving, Proof of Concept development, Design Thinking, IPR, project handling for students andfaculties related to Innovation, Incubation, IPR and Entrepreneurship.

Performance Rating: CBIT was awarded with 4 Star Rating, one among the highest rating evaluated byMIC. CBIT is recognised in the Band "EXCELLENT" category in the ARIIA- 2021. CBIT achieved No.1 Position in the I&E Ecosystem Journey/Achievements at IIC Reginal Meet arranged by Ministry ofEducation Cell (MIC) & AICTE at SNIST Hyderabad on 12th August.

Partnership with T-Hub Launchpad program on Entrepreneurship and other ESF for skilldevelopment program:50 students of CBIT were nominated and 41 students werecertified by T-Tribe for the Entrepreneurship program last year.

AICTE IDEALAB Establishment: AICTE has approved for the Establishment of the prestigious IdeaLab at CBIT.A Drone and Robotics Lab, Digital Manufacturing lab and other equipment and facilitiesrequired for converting idea to prototype is being established at CBIT.

Atal Community Innovation Centre (ACIC) : 28 Start-ups/Idea Incubation are being mentored fortheir Idea Incubation and product development.

File Description	Documents
Upload any additional information	View File
Paste link for additional information	https://www.cbit.ac.in/research_post/nisp/

3.3.2 - Number of workshops/seminars conducted on Research Methodology, Intellectual Property Rights (IPR), Entrepreneurship and Skill Development during the year

58

File Description	Documents
Report of the events	View File
List of workshops/seminars conducted during the year	View File
Any additional information	View File

3.4 - Research Publications and Awards

3.4.1 - The Institution ensures implementation of its Code of Ethics for Research uploaded in the website through the following: Research Advisory Committee Ethics Committee Inclusion of Research Ethics in the research methodology course work Plagiarism check through authenticated software	**A. All of the above**

File Description	Documents
Code of Ethics for Research, Research Advisory Committee and Ethics Committee constitution and list of members of these committees, software used for plagiarism check	View File
Any additional information	View File

3.4.2 - Number of PhD candidates registered per teacher (as per the data given with regard to recognized PhD guides/ supervisors provided in Metric No. 3.2.3) during the year

3.4.2.1 - Number of PhD students registered during the year

6

File Description	Documents
URL to the research page on HEI website	https://www.cbit.ac.in/wp-content/uploads/2022/12/URL-of-research-page-3.4.2.2-Final-v2-website.pdf
List of PhD scholars and details like name of the guide, title of thesis, and year of registration	View File
Any additional information	View File

3.4.3 - Number of research papers per teacher in CARE Journals notified on UGC website during the year

223

File Description	Documents
List of research papers by title, author, department, and year of publication	View File
Any additional information	View File

3.4.4 - Number of books and chapters in edited volumes / books published per teacher during the year

85

File Description	Documents
Upload any additional information	View File
Paste link for additional information	https://www.cbit.ac.in/wp-content/uploads/2022/12/2022_merged.pdf

3.4.5 - Bibliometrics of the publications during the year based on average Citation Index in Scopus/ Web of Science/PubMed

3.4.5.1 - Total number of Citations in Scopus during the year

307

File Description	Documents
Any additional information	View File
Bibliometrics of the publications during the year	View File

3.4.6 - Bibliometrics of the publications during the year based on Scopus/ Web of Science – h-Index of the University

3.4.6.1 - h-index of Scopus during the year

28

File Description	Documents
Bibiliometrics of publications based on Scopus/ Web of Science - h-index of the Institution	View File
Any additional information	View File

3.5 - Consultancy

3.5.1 - Revenue generated from consultancy and corporate training during the year (INR in lakhs)

35.35067

File Description	Documents
Audited statements of accounts indicating the revenue generated through consultancy and corporate training	View File
List of consultants and revenue generated by them	View File
Any additional information	View File

3.5.2 - Total amount spent on developing facilities, training teachers and clerical/project staff for undertaking consultancy during the year

84.8

File Description	Documents
Audited statements of accounts indicating the expenditure incurred on developing facilities and training teachers and staff for undertaking consultancy	View File
List of training programmes, teachers and staff trained for undertaking consultancy	View File
List of facilities and staff available for undertaking consultancy	View File
Any additional information	View File

3.6 - Extension Activities

3.6.1 - Extension activities carried out in the neighbourhood sensitising students to social issues for their holistic development, and the impact thereof during the year

NSS unit has an annual thrust areas plan. Theextensionactivities and outreachprogrammes conducted during the last five years by the College are:

- Conducted awareness programmes like discussion/symposium on global warming, blood donation, drugabuse and women empowerment etc.
- Other activities include : Participation in health awarenessprogrammes and Women's Day celebrations, Services at orphanages and old age homes, Road safety, Antiraggingsquads, Medical camps in villages, Environmental awareness programs, Service to physicallyand mentally challenged people, issue of Voter ID cards to students and staff, First aid training to studentsand staff, Firefighting mock drills, awareness on health and hygiene, awareness on atrocities againstwomen etc.
- A Mega Blood Donation camp was organized in collaboration with "Akhil BharatiyaTerapanth Yuvak Parishad".

The Community Outreach Program was initiatedduring thelast five years 2017-22:

- In-service community activities through joining hands with VillageSarpanh, Wrad members, NGOs, Municipality officials.
- Some of the programs were conducted along withtheACIC-CBIT team in order to have a focussed effort to provide solutions to the problems faced by thecommunity.
- The Outreach program enables the students to address the daily issues faced by the people inthe community for example, counselling, support, direction, and also assists many basic necessities such asshelter, food, clothing, employment opportunities, ATM card usage, Bank Transactions, and medicalservices.
- Relying upon the development of trustworthy and unconditional relationships, the students guidedby the dedicated teachers can strive to motivate and empower these people to explore their options andmeet new challenges to work towards bettering their current lifesituations.

File Description	Documents
Upload any additional information	View File
Paste link for additional information	https://www.cbit.ac.in/wp-content/uploads/2022/12/3.6.1-Additional-Information.pdf

3.6.2 - Number of awards and recognition received by the Institution, its teachers and students for extension activities from Government / Government-recognised bodies during the year

71

File Description	Documents
Number of awards for extension activities in during the year	View File
e-copy of the award letters	View File
Any additional information	View File

3.6.3 - Number of extension and outreach programmes conducted by the institution through NSS/NCC/Red Cross/YRC, etc. during the year (including Government-initiated programmes such as Swachh Bharat, AIDS Awareness, and Gender Sensitization and those organised in collaboration with industry, community and NGOs)

53

File Description	Documents
Reports of the events organized	View File
Any additional information	View File

3.6.4 - Number of students participating in extension activities listed in 3.6.3 during the year

6228

File Description	Documents
Reports of the events	View File
Any additional information	View File

3.7 - Collaboration

3.7.1 - Number of collaborative activities during the year for research/ faculty exchange/ student exchange/ internship/ on-the-job training/ project work

964

File Description	Documents
Copies of documents highlighting collaboration	View File
Any additional information	View File

3.7.2 - Number of functional MoUs with institutions of national and/or international importance, other universities, industries, corporate houses, etc. during the year (only functional MoUs with ongoing activities to be considered)

23

File Description	Documents
e-copies of the MoUs with institution/ industry/ corporate house	View File
Details of functional MoUs with institutions of national, international importance, other institutions etc. during the year	View File
Any additional information	View File

INFRASTRUCTURE AND LEARNING RESOURCES

4.1 - Physical Facilities

4.1.1 - The Institution has adequate infrastructure and physical facilities for teaching-learning, viz., classrooms, laboratories, computing equipments, etc.

Institute has adequate facilities for teachinglearning,including the classrooms that are spread across various departments, sections, and centers.Inaddition, there are central laboratories, workshops, seminar halls equipped with LCD projectors and otherteaching aids. Ramps at each building improve accessibility for persons with disabilities.

- There are 89 classrooms, 15 tutorial rooms, 113 Laboratories, 4 Workshops, 10 seminar halls, 16Research labs, 4 Workshops and 4 Central 5 common Computing facilities with 100% ICTfacilities with a total built-up area of 59,664.11 Sq.mts(instructional area-24,162.86 Sq.mts,Administrative area-6,205.34 Sq.mts, Amenities-17,300.99 Sq.mt, Circular area-11,994.92 Sq.mts)
- The institute additionally employs common high-end

computational facilities located at ServerRoom, and Training & Placement Office that can be accessed by all stakeholders.

- R & E Hub is a central facility with state-of-the-art equipment, facilities for research needs offaculty and research scholars.
- 3 conference Halls, 12 board rooms and two assembly halls to take care of all placement and careerdevelopment activities.
- The campus is powered by 2 generators(500KVA, & 125KVA), with a sanctioned load capacity of1630KW (2 transformers 500 KVA & 315KVA). About 4 RO plantswere installed on the campusto provide hygienic drinking water to all the staff and students.The institute has a 10KW Solarenergy plant installed on the C-Block building and connected to TSSPDCL Grid.
- Institute has a well-equipped video studio, with digital cameras and editing facilities, a multimedialab, and a campus community radio station that caters to listeners within a 10-kilometer radius.
- Sufficient parking area, Banks with ATM facility, Post office, Canteen, institute managed boyshostel and private managed boys/girls hostels in the surrounding area.

File Description	Documents
Upload any additional information	[View File](#)
Paste link for additional information	https://www.cbit.ac.in/wp-content/uploads/2022/12/4.1.1-Infrastrucrue-photographs-Part-2_compressed.pdf

4.1.2 - The institution has adequate facilities for cultural activities, yoga, sports and games (indoor and outdoor) including gymnasium, yoga centre, auditorium etc.)

The institute is equipped with sports, Yoga and Fitness facilities. There are three sorts of complexes forhosting various sports and fitness activities and the built-up area is 15,318.67 Sq.mts

Outdoor Sports complex:

- The major sports complex has a 200 Mts standard clay track, 5,978.31 Sq. mts. cricket field, 185.81 Sq.mts. RCC-based basketball courts and pavilion.
- A well-maintained grass football field (6,070.28 Sq.mts), volleyball courts(239.13 Sq. mts.), tennikoit,kabaddi, throw-

ball courts, open air auditorium, caters theinstitute needs.

Indoor Sports and Yoga Centers:

- There are 2 wooden floored badminton courts with 392.56 Sq. mts. area and full LED illumination.
- The indoor stadium has a Fitness Lab and issue counter with a built up area of 2000 SqFt, consisting ofstate-of-the-art equipment providing anexcellentopportunity for the institute community to improve theirfitness.
- The indoor stadium also has an area of 2,229.67 Sq. mts. Table Tennis chess, Carroms, Yoga andAerobics facilities. The Yoga & aerobic room is an exclusivefitness center for women that canaccommodate 100 students at a time with one full sized mirror and wooden flooring.
- There are 15 Carrom boards, 20 Chess boards, and 6 table tennis tables.
- Equipment available at Gymnasium: Steel Dumbbells-31, plain rods-04, zigzag rod-1, rubberplates-20, Iron plates-10, Treadmills-01, Pushup stands-02, Cable Crossover-01, duel peak series multipurpose-01, multi station leg curl and twister-01, 12 station multi Gym-01, elliptical cross trainer-02,aerofit cycles-02, kick boxing bag-01, dumbbell rack-01, bench press flat benches-02

For cultural activities:2 Assembly halls and an Open-air auditorium, used for anumber of student activities, cultural and techical events including screening, regional festivals organizedby the Students' clubs, and professional bodies.

File Description	Documents
Geotagged pictures	View File
Upload any additional information	View File
Paste link for additional information	https://www.cbit.ac.in/academic_post/department-of-physical-education/

4.1.3 - Number of classrooms and seminar halls with ICT-enabled facilities

109

File Description	Documents
Upload any additional information	View File
Upload Number of classrooms and seminar halls with ICT enabled facilities (Data Template)	View File

4.1.4 - Expenditure for infrastructure augmentation, excluding salary, during the year (INR in Lakhs)

161.05

File Description	Documents
Upload audited utilization statements	View File
Details of Expenditure, excluding salary, during the years	View File
Any additional information	View File

4.2 - Library as a Learning Resource

4.2.1 - Library is automated using Integrated Library Management System (ILMS)

The Library and Information Centre has been automated using the Library Management System-LMS.It is established in 1979 and supports the Teaching Learning andResearch activities of the Institute. It is located in a spacious independent building with an area of 18,000sft spread over two floors.For the effective functioning and utilization of the library resources, Library Housekeeping operations areautomated by using the LIBSYS limited user software in the year 1997 with the help of the AICTEMODROBS Project.

Intheyear2000LibraryManagementsoftwarewasupgradedtomultiuserNewGen Lib:anIntegratedLibraryAutomationSoftware.NewGenLibiscompatiblewit hInternational standards such as MARC21 for bibliographic description, ISBD, OAI PMH Protocol, Z 39.50 Protocol, Dublin Core,Unicode, andmany more. It uses Java technology, PostgreSQL for the database, and Apache for Web server.

Barcode technology was introduced in the library circulation system to avoid human input errors. All thenecessary precautions are taking for the safeguard the library database (updating,

backup etc.).

All the e.resource links are provided in the library's online public access catalogue (OPAC) and also in thelibrary website for the effective utilization of the resources. All the available and subscribed e.resources areprovided I.P based access and these resources can be accessed from any computer connected in the campusLAN.

The library introduced a Remote Access facility for the benefit of faculty members and students throughwhich the subscribed online databases/e-journals/e-books can be accessed from off-campus/home also.

File Description	Documents
Upload any additional information	[View File](#)
Paste link for additional information	http://202.65.141.232/library/

4.2.2 - Institution has access to the following: e-journals e-ShodhSindhu Shodhganga Membership e-books Databases Remote access to e-resources

A. Any 4 or more of the above

File Description	Documents
Details of subscriptions like e-journals, e-books, e-ShodhSindhu, Shodhganga membership	[View File](#)
Upload any additional information	[View File](#)

4.2.3 - Expenditure on purchase of books/ e-books and subscription to journals/e-journals during the year (INR in lakhs)

41.45553

File Description	Documents
Audited statements of accounts	View File
Any additional information	View File
Details of annual expenditure for purchase of books/e-books and journals/e- journals during the year (Data Template)	View File

4.2.4 - Usage of library by teachers and students (footfalls and login data for online access)

4.2.4.1 - Number of teachers and students using the library per day during the year

729

File Description	Documents
Upload details of library usage by teachers and students	View File
Any additional information	View File

4.3 - IT Infrastructure

4.3.1 - Institution has an IT policy covering Wi-Fi, cyber security, etc. and has allocated budget for updating its IT facilities

Salient features of Institute's IT infrastructure:

Computer Centre:

- **The Computer Centre was established in 1996 to facilitate and support the essential teaching andresearch goals of the institute through the deployment and delivery of ICT services to the institute'sfaculty, staff and students.**
- **The Wi-Fi facility was set up with 23 Meraki access points in 2012. Now it is expanded to all theclassrooms, Seminar Halls, Library, and R&E Hub with 114 D-Link access points controlled bypFSense firewall.**
- **With the expansion of computing activities, the institute distributed the staff at the ComputingCenter to various sites, such as Departments/sections, Placement Office, CoE, AEC, Admin,Accounts, ERP, Project Office, Purchase, Transport etc. to tap their inherent potential.**

Campus Network Facility (CNF):

- **The campus network consists of high-speed connectivity over**

the Optical Fiber Connectivity(OFC) backbone connecting all the buildings in the campus and Hostels. CNF facilitates the 1.05 Gbps 1:1 leased line bandwidth foracademic and research activities.

Software & ICT Facilities:

- Every faculty member is provided with a Desktop/Laptop, along with Webcam and Headset, UPSand internet connectivity.
- AWS AI/MLSageMaker, S3 storage for CMS and LMS
- Institute also provides the required hardware and software including plagiarism software (Turnitin)to promote research activities.

Major Software:

- Microsoft products and services, Oracle, MatLab, Eclipse, Java, C/C++, Linux, Fedora, Python,Pandas, Keras, Ansys, NetSim, PSpice, Solidworks, StaadPro,AutoCAD, Tensorflow, OpenCV,etc.
- Privacy & security is being provided with security audits, antivirus (Quickheal), Firewall (MX-100)and pFSense

File Description	Documents
Upload any additional information	[View File]()
Paste link for additional information	[https://www.cbit.ac.in/about_post/cbit-it-policy/]()

4.3.2 - Student - Computer ratio

Number of Students	Number of Computers
5527	2409

File Description	Documents
Upload any additional information	[View File]()

4.3.3 - Bandwidth of internet connection in the Institution and the number of students on campus	A. ?50 Mbps

File Description	Documents
Details of bandwidth available in the Institution	View File
Upload any additional information	View File

4.3.4 - Institution has facilities for e-content development: **Facilities available for e-content development Media Centre Audio-Visual Centre Lecture Capturing System (LCS) Mixing equipments and software for editing**

A. All four of the above

File Description	Documents
Upload any additional information	View File
Paste link for additional information	https://www.cbit.ac.in/current_students/media-center/
List of facilities for e-content development (Data Template)	View File

4.4 - Maintenance of Campus Infrastructure

4.4.1 - Expenditure incurred on maintenance of physical and academic support facilities, excluding salary component, during the year (INR in lakhs)

1412.32

File Description	Documents
Audited statements of accounts	View File
Upload any additional information	View File

4.4.2 - There are established systems and procedures for maintaining and utilizing physical, academic and support facilities – classrooms, laboratory, library, sports complex, computers, etc.

Cleanliness of classrooms and campus:

- **Adequate in-house staff in the sanitation and horticulturesections are employed to maintain the greenery, the hygiene and cleanliness of the campus, so that ahealthy and congenial learning environment is created for all.**
- **Classrooms, faculty and staff rooms, seminarhalls and**

laboratories, etc. are cleaned andmaintained regularly by the non-teaching staff assigned for eachdepartment.

Laboratories:

- All the laboratories equipment is taken care of by the concerned Head of the Department.
- Those in-charge of the labs submit periodic reports on requirements of repairs and maintenance to theHoDs.

Computing and ICT Facilities:

- The IT Team of the institute takes care of technical issues related tocomputers, Networking, Learning resources, LCD and other ICT facilities.
- Standard Operating Proceduresare in place for maintenance of IT related infrastructure.
- The AMC people maintain the computers,printers, UPS and networking devices.

Library:

- Librarian collects therequirement for the list of books, journals and other resources from all HoDs during the commencement ofeach academic year.
- Library updates its books repository on a yearly basis as per the changes in the library committee meets once in three months to upgrade and procure any.

Sports Facility Maintenance:

- Two qualified physical directors (one women) are on rolls to look after theday-to-day games and sports activities of the college.
- The gym and other equipment servicing is taken up as and when requiredunder the supervision of the physical director.

Safety:

- The security and safety of the campus are monitored by the Security office with the aid of CCTVsinstalled at strategic points.

File Description	Documents
Upload any additional information	[View File](#)
Paste link for additional information	https://www.cbit.ac.in/about_post/procedures-for-maintaining-and-utilization-of-physical-academic-and-support-facilities-laboratories-library-sports-complex-classrooms-etc-building-maintenance/

STUDENT SUPPORT AND PROGRESSION

5.1 - Student Support

5.1.1 - Number of students benefitted by scholarships and freeships provided by the Government during the year

2274

File Description	Documents
Upload self-attested letters with the list of students receiving scholarships	[View File](#)
Upload any additional information	[View File](#)

5.1.2 - Number of students benefitted by scholarships and freeships provided by the institution and non-government agencies during the year

236

File Description	Documents
Upload any additional information	[View File](#)
Institutional data in prescribed format	[View File](#)

5.1.3 - The following Capacity Development and Skill Enhancement activities are organised for improving students' capabilities Soft Skills Language and Communication Skills Life Skills (Yoga, Physical fitness, Health and Hygiene) Awareness of Trends in Technology	**A. All of the above**

File Description	Documents
Link to Institutional website	https://www.cbit.ac.in/about_post/5-1-3-capacity-development-and-skills-enhancement-activities-are-organised-for-improving-students-capability/
Details of capability development and schemes	View File
Any additional information	View File

5.1.4 - Number of students benefitted from guidance/coaching for competitive examinations and career counselling offered by the institution during the year

6525

File Description	Documents
Any additional information	View File
Number of students benefited by guidance for competitive examinations and career counseling during the year (Data Template)	View File

5.1.5 - The institution adopts the following mechanism for redressal of students' grievances, including sexual harassment and ragging: Implementation of guidelines of statutory/regulatory bodies Creating awareness and implementation of policies with zero tolerance Mechanism for submission of online/offline students' grievances Timely redressal of grievances through appropriate committees	**A. All of the above**

File Description	Documents
Minutes of the meetings of students' grievance redressal committee, prevention of sexual harassment committee and Anti-ragging committee	View File
Details of student grievances including sexual harassment and ragging cases	View File
Upload any additional information	View File

5.2 - Student Progression

5.2.1 - Number of outgoing students who got placement during the year

870

File Description	Documents
Self-attested list of students placed	View File
Upload any additional information	View File

5.2.2 - Number of outgoing students progressing to higher education

119

File Description	Documents
Upload supporting data for students/alumni	View File
Details of students who went for higher education	View File
Any additional information	View File

5.2.3 - Number of students qualifying in state/ national/ international level examinations during the year

5.2.3.1 - Number of students who qualified in state/ national/ international examinations (e.g.: IIT-JAM/NET/SET/JRF/ GATE /GMAT /CAT/ GRE/ TOEFL/Civil Services/State government examinations) during the year

112

File Description	Documents
Upload supporting data for students/alumni	[View File](#)
Any additional information	[View File](#)

5.3 - Student Participation and Activities

5.3.1 - Number of awards/medals for outstanding performance in sports and/or cultural activities at inter-university / state /national / international events (award for a team event should be counted as one) during the year

70

File Description	Documents
e-copies of award letters and certificates	[View File](#)
Any additional information	[View File](#)

5.3.2 - Presence of an active Student Council and representation of students in academic and administrative bodies/committees of the institution

- **The students' council will be involved in planning and organizing various co-curricular and extra-curricular activities in the institute. Their opinion will be sought and given due weightage in deciding theExamination schedules, academic schedules and other such curricular aspects. Any urgent informationpertaining to theacademic, co-curricular and extra -curricular activities in the institute will be disseminatedthrough CR groups and student council with great ease and convenience.**

Members of the student councilwill be involved in the following committees, anti -ragging committees and other such important bodiesat the institute level.

1. **Grievance Redressal Committee for Students**
2. **Library Committee**
3. **Students Affairs Committee**
4. **Co-curricular & Extra – curricular Activates Committee**
5. **Internal Complaints Committee**
6. **Canteen Monitoring Committee**
7. **Anti-Ragging committee (Anti-Ragging Squad)**
8. **Women Development Cell**
9. **OBC Cell**
10. **Minority Cell**

- **The feedback of students in general and the students' council, in particular, will be collected and givendue weightage in refining the various processes and systems in the institute.**
- **Student's council is also givena major role in planning and organizing the two popular festivals of the institute & viz., SHRUTHI(Cultural festival) and SUDHEE (Technical festival) every year.**
- **Further, they are also involved inimplementing certain Student Welfare Schemes such as health camps, Scholarships etc., Student's councilis also involved in establishing and maintaining good relationships with our Alumni.**

File Description	Documents
Upload any additional information	View File
Paste link for additional information	https://www.cbit.ac.in/about_post/5-3-2-presence-of-students-council-and-its-activities/

5.3.3 - Number of sports and cultural events / competitions organised by the institution

72

File Description	Documents
Report of the event	View File
List of sports and cultural events / competitions organised per year	View File
Upload any additional information	View File

5.4 - Alumni Engagement

5.4.1 - The Alumni Association and its Chapters (registered and functional) contribute significantly to the development of the institution through financial and other support services

The CBIT Alumni also known as Chaitanya Smrithi was started in 1983 after the first batch graduation.Since then, the Alumni have kept up their bonds with fellow mates leading to a very strong global AlumniNetwork of CBITians.

Alumni Vision CBIT Alumni (Advisory Committee – Alumni) aspires to be a primary linkage between the CBIT and itsfamily of alumni

across the globe and offer Services that stimulate campus traditions and eternize a passionfor a life-long involvement with CBIT.

Alumni Mission

- To promote exchange of academic and corporate experience with the students of the institute.
- To mentor and channelize the efforts of the students seeking better opportunities to learn and grow.
- To connect the existing alumni with the institute and bridge the gap of communication betweenalumni and students.
- To develop and spread a philanthropic and entrepreneurial mind-set among students.
- To maintain and cultivate among alumni's a sentiment of affection and regard for one another andattachment with CBIT Alumni.
- Encourage alumni to contribute their time, talent and financial support.
- To provide career development and guidance.

CBIT Alumni Functioning happens through four constituted committees:

1. CBIT Alumni – Advisory Committee
2. CBIT Faculty - Advisory Committee
3. Institute Alumni coordination committee (IACC)
4. Programme Content Committee

In addition to these four Committees, the Department level Alumni activities are taken care by DepartmentAlumni Coordinators.

CBIT Alumni Organizes several Alumni meetings whenever required in addition to regular Annual Alumnimeeting (Homecoming / Rejoicing reunion) is Organized every year on 25th December.

File Description	Documents
Upload any additional information	View File
Paste link for additional Information	https://www.cbit.ac.in/about_post/5-4-1-the-alumni-association-chapters-registered-and-functional-contributes-significantly-to-the-development-of-the-institution/

5.4.2 - Alumni's financial contribution during the year	E. <2 Lakhs

File Description	Documents
Upload any additional information	View File

GOVERNANCE, LEADERSHIP AND MANAGEMENT

6.1 - Institutional Vision and Leadership

6.1.1 - The governance of the institution is reflective of an effective leadership in tune with the vision and mission of the Institution

The Institution has defined its Vision, Mission and Quality Policies which is approved by the"Governing Body" of the Institution.

Vision:

To be the Center of Excellence in Technical Education and Research.

Mission:

To address the Emerging needs through Quality Technical Education and Advanced Research.

Quality Policies:

CBIT imparts value based Technical Education and Training to meet the requirements ofStudents, Industry, Trade/ Profession, Research and Development Organizations for Self-sustained growthof Society.

Participation of Faculty in different committees:

Faculty members of theInstitute are inclusive in all decision making bodies and committees of the institute such as, GoverningBody(GB), Academic Council, Common Board of Studies, Board of Studies, IQAC etc. Two senior facultymembers have been nominated as members of GB. Two Professors, one Associate Professor and oneAssistant Professor have been nominated as members of the Academic council. All the Directors and thefew nominated HoDs, teachers to represent all the levels along with the external experts as per theguidelines for composition of the committee are included as members of the IQAC. HoD, all theProfessors, one Associate Professor and one Assistant Professor of the department along with the expertsfrom the Industry and Academic Institutes constitute respective BoS committees of various departments ofthe institute.

The faculty are also members of other Committees viz., Anti Ragging, Grievances and Redressal, Industry-Institute Interaction etc., which have been constituted with specific unctions and responsibilities asmandated by regulatory bodies. Faculty are also the members of DepartmentAdvisory Board(DAB), Program Assessment and Quality Improvement Committee(PAQIC), CourseExpert Group(CEG).

File Description	Documents
Upload any additional information	[View File](#)
Paste link for additional Information	https://www.cbit.ac.in/about_post/about/

6.1.2 - Effective leadership is reflected in various institutional practices such as decentralization and participative management

The management of the Institution elucidates and ensures its effective leadership in every endeavour itinitiates. One such among them is reflected in its decentralization initiative by crea tingpositionsofDirectorstohelptheHeadoftheinstitutioninplanningand executionofvariousproceduralactivities.Decentralizationleadstofaci litatequickandeffectivedecisionmakingandexecutionrelatedtoacademic andadministrativeactivitiesatallthelevels.Itinvolvesthemembersofth efacultyandadministrationatdifferentlevelstobringinparticipationre sponsibilitieswithaccountability,authorityandresponsibility.Decent ralizationalsoensurestransparencyinallitsadministrativeactivities. Thedelegationwithauthorityand responsibility to take administrative decisions and execution required is entrusted with all the directorsand heads of the departments.

Various Statuary Committees/ Non-Statuary and other Academic, non-academic committees comprising ofvarious faculty and supporting staff with clearly defined roles and responsibilities for effective functioningof the Institute.

Case Study:

Decentralization and Participative Management to organize institutional level event "Annual Techno fest-SUDHEE" and " Annual Sports and Cultural Fest-SHRUTHI ".

- Placing the discussion in the student activity advisory committee at the management level
- Principal Nominates core committee and other sub committees for fest (Chairman's of subcommittees are usually HoDs/Senior Faculty).
- Principal being the advisor of the student techno and cultural fest shall convene a meeting todiscuss the responsibilities of various sub committees for smooth conducting of the fest.
- Chairman of all committees submits the proposed budget to the head of the institution for thenecessary approvals.
- The Head of the Institution presents the budgetary requirements with the President of the CBITSociety for the necessary approval.
- After the completion of the event, sub-committee chairmen submit the statements of expenditureincurred, to the head of the institution through core committee.
- The core committee shall consolidate and submits the report about the student techno and culturalfest to the head of the institution.

File Description	Documents
Upload strategic plan and deployment documents on the website	[View File](#)
Upload any additional information	[View File](#)
Paste link for additional Information	https://www.cbit.ac.in/wp-content/uploads/2022/12/6.1.2_Weblink.pdf

6.2 - Strategy Development and Deployment

6.2.1 - The institutional Strategic/ Perspective plan has been clearly articulated and implemented

Strategic planning is a mandatory, dynamic and continuous process with a specific focus on accomplishingshort-term, mid-term and long-term goals in this highly competitive world. It analyses currentenvironment, expected future scenarios and envisages the direction towards which the institution shouldmove forward to achieve its set goals and objectives. This strategic planning document reflects a record ofInstitute strategies for the consecutive five years (2020-2025), to accomplish its Vision and Mission bymeans of challenging, realistic yet attainable goals with long range planning.

A Total of eight goals are formulated, while maintaining educational policies and guidelines of MHRD asthe core of the paradigm within which the Institute operates.

The Eight Goals are:

1. Enrichment of Curriculum and Teaching Learning Process
2. Human Resources: Faculty and Staff
3. Research, Innovation, Incubation and Entrepreneurship
4. Development of Infrastructure and Facilities
5. Placements
6. Alumni and Interaction
7. Good Governance, Resources and Committees
8. Quality Assurance and Enhancement

Goal 1: Achieving Academic excellence by curriculum orientation and fostering experiential learningthrough ICT

Academic flexibility is enhanced by introducing innovativecurriculum and regulations (R-13, R-16, R-18, and R-20) with more focus on project-based learning, openelectives, one credit/two-credit courses, value-added courses, semester-long internships with fast-trackopening and industry/research organization-linked projects.

Depending on the progress of the academic reforms the curriculum is upgraded from time to time byconsidering the Vision and Mission of the department in line with the institute VisionandMission.Allc oursesaredesignedwiththestatedCourseObjectivesandOutcomeswhicharei nturnlinkedwithProgramOutcomesandProgramEducationalObjectives. To bridge the gap between academia andindustry, appropriate measures are being taken to incorporate the latest developments in Engineering andTechnology.

File Description	Documents
Strategic Plan and deployment documents on the website	View File
Paste link for additional information	https://www.cbit.ac.in/about_post/cbit-strategic-plan/
Upload any additional information	View File

6.2.2 - The functioning of the various institutional bodies is effective and efficient as visible from the policies, administrative set-up, appointment and service rules, procedures, etc.

The Governing Body will comprehend and amend the Rules from time to time. The Governing Body shallamend the rules only in the interest of the Institution and its Employees. The Governing Body shall be thePrincipal organ of the Management of the Institute. It shall be a compact and homogenous body enabling itpromptly to take and implement well considered decisions and to effectively handle crisis situations. TheFinance Committee and Academic Council shall act as an Advisory Body to the Principal, to consider andapprove the same.

Governing body along with its General body and Advisory committee supports President of the society instrategizing and preparing innovative policies and subsequent action plans at macro level functioning ofthe Institute. Principal of the Institute shall be at core and pivotal position and play a significant role in dayto day functioning of the institute by guiding, leading and monitoring all Directors, Heads of departmentand section heads in turn with the support of their respective supporting staff.

Department level Board of Studies Coordinates Research, Teaching, Extension and other Academicactivities in the Department / College. In addition, there are Statutory Committees such as Anti-RaggingCommittee, Internal Complaints Committee, Canteen Committee, Institute Innovation Cell, CareerDevelopment Cell and Board of Studies, where Students and Faculty are active Participants to ensure thatthe Scope defined for these Committees are fulfilled.

The frame work of organizational structure and its formulation is articulated in a manner that its supportingbodies are effective and efficient in their overall and holistic functioning leading to attainments of desiredoutcomes.

File Description	Documents
Paste link to Organogram on the institution webpage	https://www.cbit.ac.in/wp-content/uploads/2022/11/To-Upload-Organisational-Structure-Dated-29-10-2022.pdf
Upload any additional information	View File
Paste link for additional Information	https://cbit.ac.in/wp-content/uploads/2019/04/Human-Resources-Policy-Manual-2.pdf

6.2.3 - Implementation of e-governance in areas of operation: Administration Finance and Accounts Student Admission and Support Examination	A. All of the above

File Description	Documents
ERP (Enterprise Resource Planning) Documen	View File
Screen shots of user interfaces	View File
Details of implementation of e-governance in areas of operation	View File
Any additional information	View File

6.3 - Faculty Empowerment Strategies

6.3.1 - The institution has effective welfare measures for teaching and non-teaching staff and avenues for their career development/ progression

The Institute is extending all the effective welfare measures to both teaching, non-teaching staff. Welfaremeasures as indicated below are implemented as per the statutory, regulatory and government norms.

1. Institute extends Medical leave for all eligible staff as per the government norms.
2. The Management has extended the Gratuity benefit to all the Regular Employees as per norms ofthe Government for payment of Gratuity.
3. Institute is offering Earned leave, Half Pay leave for both teaching and nonteaching staff

4. Concessional Transport facilities for teaching and non-teaching by operating exclusive instituteowned staff buses.
5. For Health emergency services, an Ambulance is made available in the college round the clock
6. First aid kit with all accessories are made available in the workshops.
7. Institute extends Maternity leave for a period of 6 months to all the eligible faculty.
8. The Provident Fund scheme is implemented for all eligible Staff of the Institution as per theprovisions of Employees Provident Fund Act
9. Festival advance provision is extended to all eligible Non-teaching staff of the institution.
10. Faculty are encouraged to take up consultancy activities by providing sharing of revenue.
11. Institute encourages its faculty by providing with seed money grant for pursuing minor researchactivities and supporting for experimental setup
12. Institute provides Registration fee, Dearness allowance for teaching and non- teaching staff forattending various conferences, workshops and skill development courses
13. Institute provides ESI facility for all eligible non-teaching staff.
14. Institute provides Medical Insurance Policy for teaching and non-teaching staff.
15. Institute provides group insurance (GSLI) facility for all eligible teaching and non-teaching staff.

File Description	Documents
Upload any additional information	[View File](#)
Paste link for additional information	https://cbit.ac.in/wp-content/uploads/2019/04/Human-Resources-Policy-Manual-2.pdf

6.3.2 - Number of teachers provided with financial support to attend conferences / workshops and towards payment of membership fee of professional bodies during the year

184

File Description	Documents
Upload any additional information	View File
Details of teachers provided with financial support to attend conference, workshops etc during the year (Data Template)	View File

6.3.3 - Number of professional development / administrative training programmes organized by the Institution for its teaching and non-teaching staff during the year

34

File Description	Documents
Reports of the Human Resource Development Centres (UGC HRDC/ASC or other relevant centres)	View File
Upload any additional information	View File

6.3.4 - Number of teachers who have undergone online/ face-to-face Faculty Development Programmes during the year: (Professional Development Programmes, Orientation / Induction Programmes, Refresher Courses, Short-Term Course, etc.)

808

File Description	Documents
Summary of the IQAC report	View File
Reports of the Human Resource Development Centres (UGC ASC or other relevant centers)	View File
Upload any additional information	View File

6.4 - Financial Management and Resource Mobilization

6.4.1 - Institution conducts internal and external financial audits regularly

The Accounts department of the institute is responsible for preparing and maintaining the books ofaccounts, preparation of financial statements and submitting the same to the statutory bodies like IncomeTax department, UGC, AICTE, NAAC, NBA and State government as and when required. The financialinformation is scrutinized at different times by auditors, TAFRC (Telangana

Admission and FeeRegulatory Committee) and Finance committee.

The institute as a policy conducts both internal audit and external audit on regular basis. The managementof the institute has appointed two different chartered accountant firms for both internal and external(statutory) audit requirements of the institute.

Theinternalauditorandtheirstaffvisitsthecampusattheendofeachquarterandconductsathoroughverificationofbooksofaccounts,Studentledgers,Purchaseproceedings,payrollsandalsoverifyiftheinternalcontrolsareinplace.Afterthoroughverificationofthebooksofaccounts,auditorgivesareportonthefunctionalityofsametothemanagement of the college. From financial Year 2016-17 M/s. SSVS andAssociates has been conducting Internal Audits.

The external auditor and their staff visits the college after the end of financial year and they conduct asample verification (after consulting internal auditor) of books of accounts, Purchase proceedings, payrolls and a thorough verification of statutory obligation of college such as TDS, ESI, EPF and ProfessionalTax. The external auditor also verifies the financial statements in compliance with the standards prescribedby ICAI and gives audit report, file Income tax audit reports 3CD, 3CB and 10B with IT department. M/s.P. Murali and Co is currently the institutes' external/ statuary auditors.

File Description	Documents
Upload any additional information	[View File]()
Paste link for additional information	https://www.cbit.ac.in/wp-content/uploads/2022/11/CBIT-Financial-Reports-FY-2021-22.pdf

6.4.2 - Funds / Grants received from non-government bodies, individuals, and philanthropists during the year (not covered in Criterion III and V) (INR in lakhs)

22,53,500

File Description	Documents
Annual statements of accounts	View File
Details of funds / grants received from non-government bodies, individuals, philanthropists during the year	View File
Any additional information	View File

6.4.3 - Institutional strategies for mobilisation of funds and the optimal utilisation of resources

Mobilization of Funds: The institute's effective financial planning and management is imperative for its consistent and continuousgrowth. The annual tuition fee income from its students is the primary source of funds. Apart from thistuition fee, the institute collects other fee collections from students, Interest earned on the fee collectionsinvested as fixed deposits, Sponsorships for cultural & Technical events, Consultancy Income etc.The annual tuition fee is decided by Telangana Admission and Fees Regulatory committee(TAFRC) oncein three years (Block Period) after reviewing the audited financial statements of pervious block period ofthe institute. The TAFRC calls for fee proposals in the prescribed format before the commencement of newblock period. Once the fee proposals are reviewed by TAFRC, it calls for a personal hearing and in thishearing the fee is decided and a GO is issued. The fee remains same for students admitted for the blockperiod, i.e., for ensuing three academic years.

Utilization of Resources:

The head ofeach functional department submits departmental requirement(recurring and non-recurring) for theacademic year along with the approximate cost and its justification forthementionedneeds.AccountsdepartmentinconsultationwithPrincipalandheadsofdepartments,thedepartmentwisebudgetisbeingpreparedfortheacademicyear.TheInfrastructure development department of the institute is responsible for preparing budget for proposedinfrastructuredevelopment, repairs and renovations to the buildings in campus and building maintenanceafter confirming it with chairman D and P and management level infrastructure committee.The final budget is placed before the finance committee for necessary approvals and directions.

File Description	Documents
Upload any additional information	[View File](#)
Paste link for additional Information	https://www.cbit.ac.in/wp-content/uploads/2022/11/CBIT-Financial-Reports-FY-2021-22.pdf

6.5 - Internal Quality Assurance System

6.5.1 - Internal Quality Assurance Cell (IQAC) has contributed significantly for institutionalizing quality assurance strategies and processes visible in terms of incremental improvements made during the preceding year with regard to quality (in case of the First Cycle): Incremental improvements made during the preceding year with regard to quality and post-accreditation quality initiatives (Second and subsequent cycles)

IQAC initiates the institutionalization of the quality assurance strategies and its processes with a significantand contributory approach for its continuous and incremental improvements from time to time inaccordance with the dynamic and changing trend and phenomenon with the academic and allied fieldrequirements in line with the governing and regulatory bodies. In this regard, sample practices which areadapted in the institution are summarised below:

Institutionalized Practice-1:Recruitment process of teaching positions

For strengthening the quality in faculty recruitments, strategy of existing recruitment process is redefined.The selections shall be carried out with the approved recruitment procedures as summarized below:

1st Level: All the faculty applications are scrutinized by IIT/IISc., Professors panel followed by interviewsfor short-listings. 2nd Level: The short listed candidate are then interviewed by Osmania University panel.

Institutionalized Practice-2:Assessment of Research and Innovation activities of the faculty

An approved structured format is in practice in the institute to assess the research and InnovationContributions of the faculty. The faculty are assessed in the following parameters:

- **Research Papers published in National & International Journals**
- **Research Papers presented in National & International Conferences**
- **Publications of books and Monographs**
- **Research Projects &Consultancy works carried out**
- **Research Guidance (Registered / Thesis submitted / Degree awarded)**

Institutionalized Practice-3:Recognizing student's Career preferences and Awareness sessions

Following awareness sessions shall be conducted by Career Development Centre(CDC):

- **Providing guidance on how to prepare for placements.**
- **Awareness sessions on Higher education to pursue MS/MBA are organized for pre-final students.**

File Description	Documents
Upload any additional information	[View File]()
Paste link for additional information	[https://www.cbit.ac.in/wp-content/uploads/2022/12/6.5.1-final-merged.pdf]()

6.5.2 - The institution reviews its teaching-learning process, structures and methodologies of operation and learning outcomes at periodic intervals through its IQAC as per norms

Academic and Administrative Audit:

During this auditing process various academic attributes like Curriculum Aspects, Laboratory facilities,Faculty and Student achievements, Research, Consultancy and Entrepreneurial activities of the respectivedepartment, Faculty and Student Development Programs, Quality of Student Projects and student supportsystem are reviewed.

The first academic audit is conducted in the first week of semester class work commencement for all theteachers which involves the verification of academic documents related to correlation matrix i.e mappingof COs, POs and PSOs, to reflect Outcome Based Education.

The second audit shall be planned in the 9th/10th week of

semester. In this audit, the auditors verify theQuestion papers of Class Test, Slip Test, Assignments and evaluation process of the same.

The last audit is planned after second class test i.e after last working day of the semester. In this audit theauditor verifies the CO attainment levels of the students based onContinuous Internal Valuation.

Feedback System:

The institute follows two types of feedback mechanisms, one of the feedback mechanisms is interactiveand another is through online.

Interactive Feedback Process -For collecting the feedback on theteaching learning process (both for theory and lab courses) and on common facilities of the institute.

Online Feedback Process - Feedback on the Teaching Learning Process for every coursethat they have taught during the semester through LMS of the Institute portal.

The institute also practise the process of taking the following surveys and feedbacks:

- Course End Survey
- Program Exit Survey
- Teachers Feedback
- Alumni Feedback
- Parents' Feedback
- Employer Feedback

File Description	Documents
Upload any additional information	View File
Paste link for additional information	https://www.cbit.ac.in/wp-content/uploads/2022/12/6.5.2-weblink.pdf

6.5.3 - Quality assurance initiatives of the institution include Regular meeting of the IQAC Feedback collected, analysed and used for improvement of the institution Collaborative quality initiatives with other institution(s) Participation in NIRF Any	A. Any 4 or all of the above

other quality audit recognized by state, national or international agencies (such as ISO Certification)	

File Description	Documents
Paste the web link of annual reports of the Institution	https://www.cbit.ac.in/wp-content/uploads/2022/12/2.-6.5.3.-Internal-Academic-and-Administrative-Audit-2021-22.pdf
Upload e-copies of accreditations and certification	View File
Upload details of quality assurance initiatives of the institution	View File
Upload any additional information	View File

INSTITUTIONAL VALUES AND BEST PRACTICES

7.1 - Institutional Values and Social Responsibilities

7.1.1 - Measures initiated by the Institution for the promotion of gender equity during the year

Specific facilities provided for Women:

The following specific facilities are provided for women:

1. Safety and security: The institute has constituted an Internal Complaints Committee (ICC) and aWomen development cell (WDC) specially for women safety, to address and prevent sexualharassment at work place. A lady security is also made available for women and girl students in thecampus for their safety. The girl students and women staff avail exclusive facilities in collegetransportation, rest rooms in the campus. A female staff nurse is always made available in the health centreon the campus.

2. Counseling:Counseling activities take place on the campus on the regular basis.The Counselorinteracts with the students to find out the issues of the students and gives advice if needed.It helpsto shape up the students behaviour and also instills confidence.

3. Common Rooms:Common rooms for the girls are provided at different places exclusively for girls. This space has been

designed in such a waythat students can relax, study,can have informal discussions and has necessary facilities like chairs,bed, washrooms,tables and dust bins.

4. Any other : Workshops on Gender sensitization are conducted on a regular basis to bringawareness among the students about different types of gender and also to promote gender equality.We find girl students involved in variousextracurricular activities like participating in community service activities as NSS volunteers,joining internships, as active members of various clubs which help them to improve their technicalskills as well as their soft skills.

File Description	Documents
Upload any additional information	[View File](#)
Paste link for additional Information	https://www.cbit.ac.in/wp-content/uploads/2022/12/7.1.1_Annual-Gender-Sensitization-action-plan.pdf

7.1.2 - The Institution has facilities for alternate sources of energy and energy conservation: Solar energy Biogas plant Wheeling to the Grid Sensor-based energy conservation Use of LED bulbs/ power-efficient equipment	A. Any 4 or All of the above

File Description	Documents
Geotagged Photographs	[View File](#)
Any other relevant information	[View File](#)

7.1.3 - Describe the facilities in the institution for the management of the following types of degradable and non-degradable waste (within a maximum of 200 words)

Solid waste management : The institute has an MOU with Urban Rebox Pvt. Ltd to lift all non-degradable wastes like paper, metalscrap from the campus which will be sent for recycling purposes.

The solidwaste is collected in two bins with green and blue colour for decomposable and non-decomposable wasteseparately, which are filled by individuals. The waste dry leaves, waste grass and compostable food waste are usedto produce compost.

Liquid waste management:

The liquid waste generated from the campus includes acids used in Chemical Engineering, Chemistry &Environmental Engineering Labs. Necessary precautions are taken to store those chemicals in a safe storage room. The acids usedin the above-mentioned labs are in diluted form and hence disposed into waste water drains.

Biomedical waste management:

Since we are an engineering and technological institute, there is no generation of any type of biomedicalwaste. No biomedical waste isgenerated.

e-waste management:

The institute has an MOU with Urban Rebox Pvt Ltd. to dispose of electronic waste in order to recycleresponsibly.All electrical waste is stored separately to send for recycling.

Hazardous chemicals and radioactive waste management:

Since it is an engineering and technological institute, there is no generation of any type of hazardouschemicals and radioactive waste.

Waste recycling system:

Reverse Osmosis mineral water plants are installed in 5 different buildings and the rejected water from 5mineral water plants on the campus is being stored and reused for watering the plants through a sprinklersystem.

File Description	Documents
Relevant documents like agreements/MoUs with Government and other approved agencies	View File
Geotagged photographs of the facilities	View File
Any other relevant information	View File

7.1.4 - Water conservation facilities available in the Institution: Rain water harvesting Bore well /Open well recharge Construction	A. Any 4 or all of the above

of tanks and bunds Waste water recycling Maintenance of water bodies and distribution system in the campus

File Description	Documents
Geotagged photographs / videos of the facilities	View File
Any other relevant information	View File

7.1.5 - Green campus initiatives include

7.1.5.1 - The institutional initiatives for greening the campus are as follows: 1. Restricted entry of automobiles 2. Use of bicycles/ Battery-powered vehicles 3. Pedestrian-friendly pathways 4. Ban on use of plastic 5. Landscaping	A. Any 4 or All of the above

File Description	Documents
Geotagged photos / videos of the facilities	View File
Various policy documents / decisions circulated for implementation	View File
Any other relevant documents	View File

7.1.6 - Quality audits on environment and energy undertaken by the institution

7.1.6.1 - The institution's initiatives to preserve and improve the environment and harness energy are confirmed through the following: 1. Green audit 2. Energy audit 3. Environment audit 4. Clean and green campus recognitions/awards 5. Beyond the campus environmental promotional activities	A. Any 4 or all of the above

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File Description	Documents
Reports on environment and energy audits submitted by the auditing agency	[View File](#)
Certification by the auditing agency	[View File](#)
Certificates of the awards received	[View File](#)
Any other relevant information	[View File](#)

7.1.7 - The Institution has a disabled-friendly and barrier-free environment: Ramps/lifts for easy access to classrooms and centres Disabled-friendly washrooms Signage including tactile path lights, display boards and signposts Assistive technology and facilities for persons with disabilities: accessible website, screen-reading software, mechanized equipment, etc. Provision for enquiry and information: Human assistance, reader, scribe, soft copies of reading materials, screen reading, etc.	A. Any 4 or all of the above

File Description	Documents
Geotagged photographs / videos of facilities	[View File](#)
Policy documents and brochures on the support to be provided	[View File](#)
Details of the software procured for providing assistance	[View File](#)
Any other relevant information	[View File](#)

7.1.8 - Describe the Institutional efforts/initiatives in providing an inclusive environment i.e. tolerance and harmony towards cultural, regional, linguistic, communal, socio-economic and other diversities (within a maximum of 200 words).

The institute actively participates in the events which benefit the society in various fashions. In thisprocess,CBIT Model United Nations (CBITMUN) took its form. CBITMUN is the first Model UnitedNations Initiative of its level in Hyderabad. It has successfully held and led 10 editions which sawextensive participation both nationally and internationally. On the occasion

of the 73rd Republic Day,CBIT Model United Nations (CBITMUN) conducted its first edition of Panel Talk Colloquy on the topic'Indic Renaissance-Reviving India's lost heritage for the future generations.'

The institute also lives for an all inclusive academic culture with its name meaning Chaitanya(Awakening), Bharathi (the spirit of nation) right from its inception. Out of a plethora of clubs InclusiveEnvironment is ensured through activity and dialoguing by the following clubs: Chaitanya Suraksha(Women's Safety Club,) Chaitanya Reethi (A Healthy Gender Sensitive Entity) Chaitanya Samskruthi (thecultural club) Chaitanya Chaaya (which makes socially viable films) and the EBSB – Ek Bharath ShreshtBharath.

EBSB's aim is to resurrect from the unexpected and devastating pandemic situation and relive arejuvenated academic, cultural and safe national life together and celebrate the brotherhood with redeemedstrength. The objectives of the programme are to Successfully carry out and complete the Exchange of ourculture and language and the things proposed by AICTE with the paired institution and to fulfill the targetsas planned by the AICTE under the Mission of EK BHARAT SHRESHTHA BHARAT. The AnnualSports & Cultural Fest- (Shruthi) is conducted to promote our culture, heritage and indigenous traditions.

File Description	Documents
Supporting documents on the information provided (as reflected in the administrative and academic activities of the Institution)	View File

7.1.9 - Sensitization of students and employees of the institution to constitutional obligations: values, rights, duties and responsibilities of citizens:

Curriculum on Constitutional Obligations:

The Institute adopted the mandatory course on 'Indian Constitution and Fundamental Principles' forB.E/B.Tech students in 2018 to sensitize the students to the Constitutional Obligations: Values, Rights,Duties and Responsibilities.

Sensitization of Values:

To sensitize the values among students and staff, conducted orientation to thestudents and staff on the importance of voting

to elect the right candidates in the Municipal Elections.The Institute celebrates constitution day to create awareneson the responsibilities of students andstaff to the constitutional values.

Sensitization of Rights:

During the course work, students were shown a Documentary film on 'India Untouched' to sensitize themto the existing social discriminatory practices in the country and motivate them to work for the realisationof the right to equality in the society.NSS volunteers created awareness on child rights among orphan children.

Sensitization of Duties:

Every year first-year students are taken to historical places to sensitize them about their duties for theprotection of those places to preserve our past culture and history.

Students participated in rally for water conservation and planted saplings to protect the environment.Students are also actively participating in Parvrita, environmental club which is aimed to sensitize thestudents on sustainable environment, water conservation, no to plastic.

Sensitization of Responsibilities:

Students were taken to Akshaya Patra Foundation which provides mid-day meal to the students studying ingovernment schools. It was aimed to sensitize students the responsibilities to poor children.

File Description	Documents
Details of activities that inculcate values necessary to transform students into responsible citizens	View File
Any other relevant information	View File

7.1.10 - The institution has a prescribed code of conduct for students, teachers, administrators and other staff and conducts periodic sensitization programmes in this	A. All of the above

regard: The Code of Conduct is displayed on the website There is a committee to monitor adherence to the Code of Conduct Institution organizes professional ethics programmes for students, teachers, administrators and other staff Annual awareness programmes on the Code of Conduct are organized

File Description	Documents
Code of Ethics - policy document	View File
Details of the monitoring committee composition and minutes of the committee meeting, number of programmes organized, reports on the various programmes, etc. in support of the claims	View File
Any other relevant information	View File

7.1.11 - Institution celebrates / organizes national and international commemorative days, events and festivals

The Institute is a very vibrant campus where the staff and students are involved in many special events andcelebrations. It promptly observes many nationally and internationally important days and moulds itsstudents socially conscious and ethically strong.

Every year, the institute celebrates

- **National Girl ChildDay (January 24)**
- **Republic Day (January 26)**
- **National Science Day (28 Feb)**
- **International Women's day (March 8)**
- **World Water Day(March 21)**
- **Earth Day (22nd April)**
- **Intellectual property rights day(April 26)**
- **International Day of Yoga (June 21)**
- **World DrugDay (June 26)**
- **Independence Day (August 15)**
- **World Entrepreneurs day (August 21)**
- **Teacher's Day (September 5)**
- **Engineers Day (September 15)**
- **Gandhi Jayanthi (October 2)**

- **National Education Day (November 11)**
- **NationalMathematics Day (December 22)etc.**

Each of these events is organized by various Clubs of the institute.

As initiated by the Ministry of Women and Child Development and the government of India in 2008,"National Girl Child Day" is celebrated to spread public awareness about inequities that girls face inIndian society. Webinars on Empowering girl children, health & hygiene, gender equality etc. wereorganised with eminent women personalities.

Bathukamma, an icon of the cultural identity of Telangana state is generally celebrated for nine daysduring Durga Navratri. At CBIT, the 1st day of Bathukamma is celebrated to portray the culture andtraditions of Telangana.

To support and encourage environmental protection, CBIT observes 'Earth Day', with various themes.Awareness talks and competitions are part of the event.

As marked by the United Nations, World Drug day is celebrated on June 26 to achieve a world free of drugabuse.

File Description	Documents
Annual report of the celebrations and commemorative events for during the year	View File
Geotagged photographs of some of the events	View File
Any other relevant information	View File

7.2 - Best Practices

7.2.1 - Provide the weblink on the Institutional website regarding the Best practices as per the prescribed format of NAAC

Best Practice-I

Title of the Practice: Innovative research on contemporary societal needs

Objectives of the Practice:

CBIT has taken up a multidisciplinary project "Indo-American Artificial Heart Program" (IAAHP) whichis a philanthropic research program, that brings together the medical and engineering fraternities towardsbuilding a low-cost left ventricular assist device; a centrifugal blood pump for cardiovascular support.

- To promote applied and contemporary Research Culture in the institute
- To create a habit of exploring societal needs and identifying the thrust areas.
- To formulate problems that are amenable for Engineering judgement and probable solutions.
- To encourage faculty to apply for external /In-house funding based on the outcome of the pilotprojects.

The context:

Multidisciplinary project Indo-American Artificial Heart Program (IAAHP)which is a collaborative research program, bringing together medical and engineering fraternities towardsbuilding a low-cost left ventricular assist device; a centrifugal blood pump for cardiovascular support.Various collaborative organizations of this project are CBIT, SHARE INDIA, SNIST, KITSW, AIGHospitals, Laxven Systems and esteemed foreign organizations and universities including University ofPittsburgh, Cornell University and Vadovations.

The Practice: Various versions of the pump were designed using Solid Works and computational analysis was doneusing ANSYS Workbench. The pump is designed to deliver a flow rate of 5.0 LPM and a pressure head of120 mmHg for LVAD setting and 500 mmHg for ECMO setting. SLA 3D printer was used for rapidprototyping.

Evidence of Success: Two design patents were published from Artificial Heart Project; 1. Blood pump impeller and 2.Magneto blood pump, and one process patent is filed.

File Description	Documents
Best practices in the Institutional website	https://assessmentonline.naac.gov.in/storage/app/hei/SSR/109708/7.2.1_1670505829_9271.pdf
Any other relevant information	https://assessmentonline.naac.gov.in/storage/app/hei/SSR/109708/7.2.1_1670508357_9271.pdf

7.3 - Institutional Distinctiveness

7.3.1 - Highlight the performance of the institution in an area distinct to its priority and thrust (within a maximum of 200 words)

Atal Community Innovation Centre (ACIC) and MSME Incubation Centre:

ACIC-CBIT Research and Entrepreneurship Foundation has been registered byCBIT as a Special Purpose Vehicle (SPV) under the Companies Act.

The Atal Innovation Mission (AIM)at NITI Aayog has sanctioned a grant of Rs. 222.26 lakhs for five years of operation with equal investment fromCBIT.

Outcome:

- **12 nos Outreach programs were conducted to address the issues faced by the communities of theVillages with innovative solutions by CBIT's students.**
- **30 Plus Start-ups/Idea Incubation are being mentored at CBIT's ACIC Incubation centre andMSME Incubation Centre for their Idea Incubation and product development.**
- **CBIT is recognised in the Band "EXCELLENT" category in the ATAL Ranking of Institutions on Innovation Achievement (ARIIA) 2021.**
- **CBIT achieved No. 1 Position in the I&E Ecosystem Journey/Achievements at IIC Regional meetarranged by the Ministry of Education Cell (MIC) & AICTE at SNIST Hyderabad on 12th August.**
- **CBIT has got 43 IPRs including 6 Granted Patents, 21 Published Patents, and 13 Nos IPRs(Copyright).**
- **41 students were certified by T-Tribe for the Entrepreneurship program last year.**

- More than 700 students were certified by the Energy Swaraj Foundation, ESF (under the guidanceof AICTE) for the Design of a Home Solar System.
- 29 Ideas have been uploaded by students, Faculties and MSMEs, and Startups in the MSME portalfor Funding.
- Three teams comprising of 18 students from CBIT were shortlisted by MIC for the Grand Finale ofthe 'SMART INDIA HACKATHON' (SIH) software edition. one team (6 students) won the prizein the above SIH.

File Description	Documents
Appropriate link in the institutional website	http://acic.cbit.org.in/
Any other relevant information	View File

7.3.2 - Plan of action for the next academic year

Future Plans:

Achieving Academic Excellence by curriculum Orientation and fostering experimental learning through ICT

- Conducting Training Programs to create more awareness
- Establishment of new Industry based labs
- Community Outreach programs
- Introducing new programs in the emerging area

Faculty and staff

- Faculty and staff recruitment Process.
- Involving professors from IIT and IISC on the recruitment panel.
- Conduction of NITTTR programas.
- Staff training by the Industrial experts for quality improvement.

Research, Innovation, Incubation and Entrepreneurship

- Encourage the individual departments to set up Center of Excellence
- Arrange the guest lectures to both students and faculty to get technical exposures to latest technologies and developments and motivate them to take up consultancy assignments.
- Motivate the students to nurture innovators to ideate in

areas of societal importance through community innovation
Page 69/70 29-09-2022 09:50:21 Annual Quality Assurance
Report of CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY (A)

- Collaborate with T-Hub's, T-Tribe and TiE Hyderabad for developing Entrepreneurship culture.

Infrastructure and facilities

- Facilitate Teaching-Learning Infrastructure for Digital Education.
- Digital repository of course content of all the courses and shall be made available to all the students with the help of Cloud teaching.
- Green campus

Enhancement of placements and Internships through Industry focused training programs

Alumni and Interaction

- Establishment of Alumni association office and creation of interactive Alumni Website.