

ANNUAL REPORT - SHRUTHI-2020

Respected Dr. V. Malakonda Reddy garu, President, CBIT.

Hon'ble Chief Guest of today's function: Sri A. Ayodhya Rami Reddy garu, Founder, Ramky Infrastructure Ltd.,

Guests of Honor for the day : Sri K. S. Chandra Bose, Famous Indian Lyricist & Singer and Smt. Suchitra Chandra Bose, Incredible Indian Choreographer.

Respected Madam Smt. D. Sandhya Sree, Chair Person, D&P Committee & Member-BoM, CBIT.

Prof. P. Sreenivas Sarma, Director-Student Affairs and Chairman, Shruthi – 2020.

Mr. Abhijeet Shreepad Purakar, President, Students' Association.

Sri D. Bhasker Reddy Garu, Advisor-RCG, CBIT!!!

Other Dignitaries off the Dais, Special Invitees, Directors, Heads of the Departments / Sections, Staff, Parents, Electronic & Print Media and my dear Students of CBIT.

A Very Good Evening & my heartfelt Greetings to you all.

With enormous gratification, I welcome you all for Shruthi-2020.

I heartily welcome you all to the Annual Sports & Cultural Fest of CBIT - Shruthi-2020. I am happy to say that CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY is celebrating 41st year of it's establishment.

At the outset, I would like to thank you all for giving me the opportunity to place before you the Annual Report of CBIT for the Academic year 2019-20.

CBIT is an Institute par Excellence. It nurtures talent, encourages Innovation and propels Research in all disciplines. CBIT aspires to establish one of the best education ecosystems in the Country in the field of Technical Education.

Motto: The Management, with a vision to be a Centre of Excellence in Technical Education and Research, envisaged a new Road Map to CBIT to

elevate its Standards on par with premier Technical Institutions in the Country. The Institute harnesses the talents of the Students to make them technically sound and to develop a holistic personality. In line with its Motto "Swayam Tejaswin Bhava", CBIT trains the Students to become Self-enlightened and to become successful Personalities in their respective walks of life.

Vision: To be a Centre of Excellence in Technical Education and Research

Mission: To address the Emerging Needs through Quality Technical Education and Advanced Research

Quality Policy: CBIT imparts value based Technical Education and Training to meet the requirements of Students, Industry, Trade / Profession and Research Organizations for Self-sustained growth of Society.

First of all, I congratulate all the Faculty, Students and Staff members of this Institution for achieving milestones in the Academic Year 2019-20.

I am pleased to inform that the Institute has been participating in NIRF Rankings since 2016 and had been Ranked **100th Position** in the Engineering Category for the Year 2019.

The Institute is ranked **10th** among the Top Private Engineering Colleges in India, South Zone by "**THE WEEK**" Magazine of **June 2019** edition and **36th** out of **top 100** Engineering Colleges in the Country and **First** in Telangana State by "**OUTLOOK**" Magazine of **June 2019** edition.

Academics:

CBIT is offering BE / B. Tech. in 9 branches of Engineering and Technology (Civil, Mechanical, Production, Chemical, Biotechnology, Electrical and Electronics Engineering, Electronics & Communication Engineering, Computer Science & Engineering and Information Technology), 8 ME / M. Tech. in specializations (Structural Engineering, CAD/CAM, Thermal Engg., Power Systems & Power Electronics, Communication Engg., VLSI & Embedded Systems, Computer Networks & Information Security, Computer Science and Engineering and MBA & MCA altogether 5000+ Students on Campus.

All 9 UG Engineering and 3 PG Engineering Programmes are accredited by NBA where as all the UG Engineering programmes are accredited for 5th time. CBIT is accredited by NAAC twice and secured A grade by UGC for five years.

CBIT (A) has an adequate Infrastructure and Academic Excellence supported by **300** experienced Faculty of which **138** are **Ph. Ds** and with **13 Patents** Published. It has an Ecosystem which caters to Research, Consultancy, Start-Ups,

Incubation, Strategic Collaborative Association with Industries and Foreign Universities.

The Institute is Pioneering the development of an **Artificial Heart** in Collaboration with Pittsburgh University and Cornell University, USA. The Faculty and Students have successfully executed Sponsored Research and Consultancy Projects, from various funding Agencies such as **DRDO, ISRO, DST, AICTE** and **UGC**. In the Research and Entrepreneurship Hub; **MHRD - Institute Innovation Cell (IIC), MSME- Business Incubation (BI), Hexagon 3D Innovation Lab, Cognizant Innovation Lab and Robotic Process Automation Lab and Centre of Excellence in IoT and Cyber Security** have been established for the Students and Faculty to pursue their Research Interests.

CBIT strives to innovate its academic activities by introducing CBCS curriculum and implementing Model Curriculum notified by AICTE from the academic year 2019-20, in a bid to generate the kind of intellectual capital that will keep the Institute up-to-date on the technological front. At this juncture, I am happy to say that we are introducing new UG & PG Courses in the emerging areas viz., Artificial Intelligence, Cyber Security, Data Sciences, Big Data, Machine Learning and Robotics from the Academic Year 2020-21.

Our students are exposed to challenging, research-based academics and a host of sport, cultural and organizational activities on the vibrant campus. The presence of Research facilities, Institute-Industry Collaborations, International Exchange programmes, Interdisciplinary Research Collaborations and Internship opportunities help the Students of CBIT to excel and be ahead in the competitive professional environment. In the 41 years of its existence, more than 30000 students have graduated from CBIT.

In this connection, I would like to inform that we have awarded **33** Gold Medals for the 2018-19 passed out batch and also awarding **96** Silver Medals for the students who achieved highest marks in the previous Academic year.

The overall pass percentage for the academic year 2018-19 is **91.44** which includes **467 Distinctions** and **491 First Classes**. Now, I would like to place on record the outstanding work done by the Faculty and the Staff members of the Institute in strengthening teaching and research programmes.

Other new initiatives during this year are:

- ✓ Introduced Biometric Attendance System for UG students.
- ✓ Established Informal Sanskrit Learning Centre in which Certificate will be issued by MHRD
- ✓ Introduced MOOCS Courses
- ✓ Established NPTEL Local Chapter

- ✓ 5 Digital Boards have been installed and some Faculty are undergoing online training for Digital Pedagogy.

Research Activities:

CBIT has registered steady growth in Research & Development activities during this academic year. To enhance research activities and cultivate pleasant research atmosphere, a multi-crore state of the art building with all modern technical facilities is established in August 2018.

'Navigation and Communication Research Centre' is established and is executing several sponsored / Consultancy Projects from DRDO, ISRO, AICTE with a total of Rs.13,96,750/- worth of on-going Projects have been sanctioned to the Institute from different funding agencies.

Research Day was celebrated in the Campus of CBIT on 23rd August, 2019. Prof. David Gibson, Director of Learning Futures, Curtin University, Australia, has inaugurated the event and addressed the gathering that included researchers, faculty, students, delegates from Academia, Industry, R&D Organisations, representing various states of the Country. Dr. A. D. Sarma, Director-R&D, CBIT, has confirmed that a total of 465 delegates participated in the event. About 250 papers and 107 posters were presented while 103 products were demonstrated.

Department of MSME, under the Ministry of Human Resource Development has approved CBIT as the Host Institute for establishing the Incubation Centre at the Research and Development Hub. We have already uploaded 35 Project Ideas from Students and Faculty and further 50 are being evaluated for uploading.

The Atal Community Innovation Centre - CBIT has advanced to the next level of being approved and Presentations were done for final consideration. Our application is shortlisted for defending the same before a Screening-cum-Selection Committee (SSC) of ACIC at Atal Innovation Mission, NITI Aayog.

Kernel Sphere Technologies (P) Ltd., and Zoom Technologies are establishing Training Centres at R&E Hub to train Students of CBIT and other Institutes on IoT and Cyber Security.

To Establish, Maintain and Enhance Academic and Intellectual Interaction between CBIT and CIPS through Specific Initiatives, we have entered into an MoU with Centre for Innovations and Public Systems(CIPS).

I am happy to say that CBIT has been recognized as US-Council Authorized Training Centre. Some of our Faculty are deputed for training in the IoT and Cyber Security Courses.

CBIT has been recognized as the Institution for carrying out Joint Research, Science, Technology and Innovation activities in areas of common interest, by Telangana State Council of Science & Technology (TSCOST), Environment, Forests, Science & Technology Department, Government of Telangana. We have already identified 20 core areas in the Form of Projects and submitted the same for approval. The funding will be from TSCOST, financed by MHRD.

Patents:

A patent is an exclusive right granted for an invention, which is a product or a process that provides, in general, a new way of doing something, or offers a new technical solution to a problem. To get a patent, technical information about the invention must be disclosed to the public in a patent application.

A total of 13 Patents were filed and published. More than 800 Papers were published by our Faculty. 250 Students are pursuing their PhD. under the guidance of our Faculty. More than 25 Sponsored Projects are under progress.

Institution Innovation Council:

Ministry of Human Resource Development (MHRD), Govt. of India has established 'MHRD's Innovation Cell (MIC)' to systematically foster the culture of Innovation amongst all Higher Education Institutions (HEIs).

Major focus of IIC :

- To create a vibrant local innovation ecosystem.
- Start-up supporting Mechanism in Higher Educational Institutions.
- Prepare institute for Atal Ranking of Institutions on Innovation Achievements Framework.
- Establish Function Ecosystem for Scouting Ideas and Pre-incubation of Ideas.
- Develop better Cognitive Ability for Technology Students.

I am pleased to announce that CBIT has established an Institution Innovation Council of MHRD and MHRD to work towards the aim of the Council. In this connection, I am happy to say that the Institute has participated in the Atal Ranking of Institutions on Innovation Achievements Framework this year and The Institute Innovation Council, CBIT, arranged live Face book session for the

India's First Leadership Talk Series, Seminars and Workshops. All the Faculty and Students have participated in the sessions.

MOUs :

The Institute signed **59** MoUs with various Universities, Industries & organisations for exploring areas of collaboration and co-operation. The Institute also has furthered links with International universities viz., Curtin University, enabling enhancement of research and educational programmes at the Institute by establishing School of Excellence. MoU with Anywhere Automation University for establishing Centre of Excellence on Robotic Process Automation. During the Last Academic Year, we have signed MoUs with various organizations viz., CIPS, Kernel Sphere Technologies, Hyderabad Institute of Electrical Engineers, Zoom Technologies, Innopark, TSCOST and National Academy of Construction, IICT etc.

Alumni:

The Institute is very keen to maintain a strong bond with its Alumni and started extending several facilities and services including start-ups. The Alumni of the Institute have made their alma mater proud through their achievements and contributions in diverse fields and our engagements with them are steadily growing. Our Alumni base made significant contributions in their chosen Profession in particular and Society in general. Further, its worthy to note that majority of our outgoing Students are either placed in reputed Multi-National Companies like Microsoft Google, Oracle, Amazon and others such, through Campus Placements or pursuing Higher Education in renowned Universities in India such as IITs and in abroad like Stanford, Carnegie Mellon and other such Universities.

The following are some of the activities of Alumni Association.

- Rejoicing Reunion - The Alumni Meet on 25th December every year.
- Silver Jubilee Celebrations for every batch.
- Scholarships to the economically poor & academically excellent students of CBIT.
- Organising Workshops / Seminars & Conference.
- Organising Guest Lectures by eminent alumni in various fields.

Awards won:

In an endeavour to create an environment of teaching learning of high order, the Institute honoured its Best teachers based on Teaching- Learning, Research

and papers published, Ph. D. guidance, Extracurricular activities and feedback. This apart several academic Distinctions, Honours, Distinguished Fellowships, Associate-ships and Awards have been bestowed on our Faculty and Students in recognition of their academic achievement during the last Year.

Dr. A. D. Sarma, Director-R&D received a National Award 'Acharya Ratna', a Lifetime Achievement Award for the year 2019-20 on the occasion of 150th Birthday of Mahathma Gandhi Jayanthi.

Dr. K Jagannadha Rao, Professor in Civil Engineering has written a book titled : "STRUCTURAL DYNAMICS AND EARTHQUAKE ENGINEERING", Publisher - S.K. Kataria & Sons (2018), ISBN-10: 9350146541.

Dr. K Jagannadha Rao, Professor in Civil Engineering has been Awarded, best presenter award under the technical paper on "Recycled concrete & Self compacting concrete" in the 14th International Conference on Concrete Engineering and Technology CONCET 2018 held during 8th – 9th August, 2018 at university of Malaya, Kuala Lumpur, Malaysia.

Dr. D. Krishna Reddy, Sri P.Sathish and Dr. N .Alivelu Manga have received the best Paper Award for the paper entitled "Development of Raspbian kernel Customization for Automatic Railway Level Crossing Application" in Second International Conference on Emerging Trends In Science & Technologies For Engineering Systems (ICETSE-2019) held at S J C Institute of Technology, Chickballapur, Karnataka during 17-18 May 2019 .

Dr. Pragati Priyadarsini, Asst. Prof., Dept. of IT, received the Best Researcher Award from World Research Council, Trichy.

Sri V. Santosh, Asst. Prof., Dept. of IT, received best paper award at a Conference conducted by Sreenidhi Engineering College, Hyderabad

Dr. M. Rama devi, Asst. Prof., Dept. of Chemistry, won the Best Poster Award for "Synthesis Characterization and Conductivity of La, Nd, Sm, and Eu, doped pyrochlore oxide of composition $YLnTiZrO_7$ ", during "Research Day".

Dr. D. Saritha, Asst. Prof., Dept. of Chemistry, received Best Paper Awards on the occasion of International Conference on Advances in Minerals, Metals, Materials, Manufacturing and Modelling (ICAM5 19) organized by NIT Warangal and on the occasion of Research Day organized by CBIT.

Student Activities & Achievements:

The Institute has encouraged and enabled extra-curricular student activities to ensure that the students become well rounded. The goal is to produce individuals who are not only technically competent but also have expertise in a range of skills of the choosing.

There are 18 Clubs for all round development of students. The major clubs under student activities are Social & Cultural, Science & Technology, Sports & Games, which remain active throughout the year.

Some of them are ASME, Chaitanya Samskruthi, CBIT-MUN (Model United Nations), Entrepreneurship Development Cell, Google Students Club, IEEE, ISTE, NSS Unit, Robotics & Innovations, SAE, Toastmasters, Engineer Without Borders, Parivrita, Energy Savers Club, Chaitanya Reethi, Chaitanya Svaasthya, Chaitanya Kruti, Chaitanya Srujana, Chaitanya Sahithi, Chaitanya Seva, Chaitanya Kreedha and Chaitanya Sudhee.

Other events organised for Students:

Orientation Program, Induction Programme, National Level Technical Fest, Awareness programme on Anti Ragging and Drug Abuse, Awareness Programme on Industry Motivation, Personality Development & Grooming, Seminar on Internships, Awareness Sessions on IPR, Industrial Workshop Training Programme by Energy Savers Club, National Seminar on Water & Environment, Aptitude Attitude Awareness programme, Remedial Classes & English Proficiency course for Slow learners, Hactober Fest on Open Source, a Seminar on "Innovations in Social Engineering" , International Conference on Vedic Mathematics, Graduation Day, Common Technical Fest - SUDHEE, Awareness Programmes on Cyber Security, Guest Lectures and Expert Talks, Orientation Programme on Trading in a Stock Exchange & Certification, were some of the events organised for students this year.

Sports :

In the pursuit of academic success, students sometimes need a break from the classroom and an opportunity to release pent-up energy. While academic success is no small feat, students who participate in at least one extracurricular physical activity are proven to reap more benefits than those who do not exercise regularly.

Department of Physical Education organised a National level Inter Engineering College Sports Meet and two Inter College Tournaments. Our students won Gold, Silver and Bronze medals in many tournaments and sports Meets viz.,

Athletics, Table Tennis, Badminton, Swimming, Judo, Boxing, Chess, Basket Ball and Caroms. Congratulations to all the students who brought glory to CBIT with their outstanding performance.

CBIT is implementing the activities of Fit India Movement as per the Directions of MHRD to give a much needed impetus to physical fitness and health of the Staff, Students and Stakeholders. Students are the future of the Country and should be physically and mentally fit. It is essential that a culture of physical fitness and good health is created within every Institute for Students, teaching & non-teaching staff etc., so that the campus vibrate with health and energetic people full of enthusiasm for learning. We have already designed the Schematic Plan and Action plan for implementing the Fit India Movement in the Institute.

Workshops / Conferences & Continuing Education Programmes:

Continuing Education is part of the CBIT's Outreach programmes created to extend its arm for the promotion and extension of the Science and Technology benefits to the Society, apart from its main focus of teaching and research.

During the last academic year **52** Conferences / Workshops & FDPs have been organised by the Institute. Our faculty attended for **113** Seminars / Conferences & Workshops conducted by various Institutions. **38** faculty were delivered Guest Lectures in other Institutions. **194** Papers Published and **30** Papers were presented.

PLACEMENTS & INTERNSHIPS :

Total Placements for the Academic Year 2017-18	:	1158
Total Internships	:	400
Total Companies offered placements	:	90
Highest CTC offered	:	41.00 Lakhs / Annum
Average CTC	:	6.2 Lakhs / Annum
Lowest CTC	:	3.0 Lakhs/Annum
No. FDPs conducted	:	66
No. of SDPs conducted	:	166

- ✓ Highest package of Rs.41 LPA in Microsoft.
- ✓ 35 students are placed in JPMC through 24 Hrs Code for Good contest with package of Rs. 14 LPA which is the Highest in number in the State of Telangana.

- ✓ 71 students are placed in Deloitte which is the Highest in number in the State of Telangana with a package of Rs. 7.6 LPA.
- ✓ Hyundai Motors India Ltd, offered Placement to a Student from Mechanical Engg., with a Package of Rs.8 LPA.
- ✓ 400 students were offered paid internships with highest Stipend of Rs.80K per month in Microsoft.

Other Activities:

The Institute observed several events like International Women's Day, International Yoga Day, Haritha Haaram, Independence Day, Engineers Day, Teachers Day, Road Safety Week, Vigilance Awareness Week, National Education Day, Rashtriya Ekta Diwas, Energy Conservation Week, Republic Day, World Water Day, Teachers Day, etc., besides the regular National events and a large number of Students, Faculty and Staff members were participated in the events.

I wish to inform that Mahatma Gandhi National Council for rural Education (MGNCRE), DHE-MHRD-Government of India has provided an opportunity to CBIT to associate for fulfilment of Swachhata Action Plan, in which we have adopted two Villages. A Two-Day Workshop on Rural Immersion Training Programme was organised.

As per the directives of AICTE & MHRD with regard to Ban of Plastic use, CBIT is implementing the Ban of Plastic Use in the Campus, as Plastic Pollution is currently one of the biggest Environmental concerns.

Clearly, there is a lot happening in the Institute that its Faculty, Staff and Students, as well as its well wishers and supporters can be truly proud of. However, we still have a long way to go. As we grow, we need to find new ways and means to retain and enhance our spirit of innovation, entrepreneurship and maintain and enthusiastic environment wherein people feel empowered to do things, to innovate and to take on challenges.

A lot of what the Institute has achieved is possible due to tremendous hard work and confidence of the Faculty, Staff and Students of this Institute and faith and encouragement of its Board of Management, Governing Body Members, Advisor-RCC and numerous well wishers of the Institute.

Thank You.....