

CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY
An Autonomous Institution and Affiliated to OU

FACULTY AWARDS/ guest lectures/ publications/projects

- Total of 50 research papers were published in various renowned national and international journals in the year 2019-21.
- Around 30 research papers were presented in various national/ international conferences in 2019-21.
- Dr. M Chandra Shekhar and Dr. Santhosh Kumar A gave invited lecture in international conference on “Role of Nanotechnology in communication systems” organized by IARE in association with Electronics & ICT Academy, NITW from 2nd- 14th Nov 2021.
- Dr. Neelima Agarwal gave three Live sessions on “Mathematica” in NPTEL as a part of course on “Introduction to Classical Mechanics” in Oct 2021.
- Dr. K Rajgopal & Dr. M Subhadra co-ordinated, Dr. Neelima Agarwal, Dr. S. Shravan Kumar and Dr. Santosh co-coordinated two days International e-Conference on “Materials Processing and Characterization”, ICMP& C-2020 organised on 18th-19th September 2020. Dr. Y. S Reddy and Prof. B. Sreenivasa were the convenor and co-convenor of the event respectively.
- Dr. M Subhadra & Mr. G Natraju co-ordinated one week FDP on “ Student Induction and Universal Human Values” organized by the Department on 26th – 30th August 2020. Dr. B Sreenivasa Reddy & Dr. Y. S Reddy were the convenors of the programme.
- Prof. B. Sreenivasa Reddy & Dr. Y.S.Reddy coordinated, Dr.K. Vinay Kumar Reddy & Dr. M Subhadra co-coordinated one week online FDP on “Engineering Physics and Material Science” organized by the Department on 3rd-7th August 2020. Prof. B Linga Reddy was the convenor of the event.
- Faculty members attended around 250 FDPs/ Workshops/ STTPs in the year 2019-21.
- Dr. Neelima Agarwal co-coordinated an international workshop on “Precision QCD @LHC organized at IIT Hyderabad in Jan 2020.
- 5 research papers were presented by various faculty members Research Day organized at CBIT on 23rd August 2019.
- Dr. M Subhadra received the Research Ratna Award in 2019 by IRJULA.
- A total of 9 research papers were published by various faculty members in national & international Journals in 2018-19.
- Faculty members attended various FDPs at the national level in the year 2018-19.
- 7 faculty members attended various STTPs at the national level in 2018-19.

- Mr. S. Narsimha Reddy, Lab Assistant, Received Best Non-Teaching staff (Technical) from CBIT in the eve of Shruthi-2019 (Ruby Jubilee) Celebrations.

- Dr. S. Shanmukharao received SERB-Core Research Grant (CRG/2022/0007993) worth Rs. 44,47,696/-, and DST-Indo-Russia Bilateral International Project (DST/INT/RUS/RSF/P-47/2021(G)) worth Rs. 84,12,370/-, UGC-DAE CSR-Collaborative Research Grant (CRS/2022-23/01/712) worth about Rs. 9,00,000/- , UGC-DAE CSR-Collaborative Research Grant (CRS/2022-23/01/717) worth about Rs. 2,00,000/-, UGC-DAE CSR-Collaborative Research Grant (CRS/2023-24/1660) worth about Rs. 2,00,000/- and Science and Technology Facilities Council (STFC) - United Kingdom (RB2420323) worth about Rs. 3,50,000/-.
- Prof.B.Linga Reddy has contributed to three publications in the AY 2019-2020, three publications in AY 2020-2021, and one publication in AY 2021-22.
- Prof. B. Sreenivasa Reddy have published three publications in the AY 2019-2020, three publications in AY 2020-2021, and one publication in AY 2021-22.
- Dr. Y. Srinivasa Reddy published one publications in the AY 2019-2020, four publications in AY 2020-2021, and three publications in AY 2021-22.
- Dr. K. Vinay Kumar Reddy published four publications in the AY 2019-2020, six publications in AY 2020-2021, and three publications in AY 2021-22.
- Mr. Nataraju G published
- Dr. K. Rajagopal published one publication in the AY 2019-2020, three publications in AY 2020-2021, and two publications in AY 2021-22.
- Dr. M. Subhadra published three publication in the 2020,one publication in 2021, one publication in 2025.
- Dr. S. Shravan Kumar Reddy published two publications in AY 2019-2020, five in AY 2020-21, two publications in 2021-2022, four publications in 2023 and one publication in 2024.
- Dr. Santhosh Kumar A published one publication in AY 2019-2020, one in AY 2020-21, one publications in 2023, four publications in 2024 and two publications in 2025. Dr. A. Santosh Kumar has been involved in several externally and internally funded research projects focusing on advanced functional materials for energy, magnetic, and opto-electronic applications. He completed a DST-SERB-funded project on plasmonic Au-Pd anchored ZnO/SnO₂ nanoarray heterostructures for light-emitting devices and sunlight-driven photocatalysis, with a total grant of ₹19.20 lakhs.

He is currently a Co-Principal Investigator on a DST-CRG project exploring spin caloritronic materials for waste heat management, magnetic refrigeration, and EMI shielding, supported by ₹45.00 lakhs. As Principal Investigator, he is leading a UGC-CSR-funded project on doped MnNiGe ribbons for magnetocaloric, magnetoresistance, and EMI shielding applications with a grant of ₹1.35 lakhs.

In addition, he is heading an in-house funded project on the development of ZnO nanoarray-based photodetectors for enhanced opto-electronic performance, with funding of ₹1.36 lakhs, and is serving as Co-PI on a one-year project investigating the magnetocaloric effect and critical magnetic behavior of 4d-doped MnSi, supported by ₹1.52 lakhs.

- Dr. S. Shanmukharao has significantly expanded the scope and international reach of his research through active global collaborations. He has established a formal **Agreement for Collaboration** with Prof. Alexey V. Lukoyanov of the M. N. Mikheev Institute of Metal Physics, Ural Branch of the Russian Academy of Sciences, Russia, fostering joint research activities and academic exchange. In addition, his international research engagement has been recognized in the United States of America through his appointment as an **Affiliated Assistant Research Professor** at the State University of New York (SUNY), Buffalo State. These associations reflect his growing global research footprint and recognition in the international scientific community.
- Dr. S. Shanmukha Rao has exhibited a strong and consistent research profile through publications in high-impact, peer-reviewed journals. In 2022, he published four research articles in SCI-indexed journals, comprising two papers in Q1 journals, one in a Q2 journal, and one in a Q3 journal. In 2023, his research output further increased, with the publication of four Q1 and two Q2 papers in SCI-indexed journals, along with two additional research articles in Scopus-indexed journals. In 2024, he earned four Q1 and five Q2 papers in SCI-indexed journals, along with two research articles in Scopus-Indexed journals. He further extended his research in 2025, with six Q1 and one Q2 papers in SCI-indexed journals, along with one Q3 paper in scopus-indexed journal. He authored a book with Dr. Bunty Rani Roy as Co-Author titled “An Introduction to Thermal Physics” ISBN: 987-81-99-3817-1-1, REST Publishers.
- Dr. M. Chandra Sekhar published one papers in 2021, four papers in 2022, two papers in 2023, one paper in 2024, two papers in 2025. He has a CRS project in UGC-DAE consortium for scientific research CRS/2022-23/1061 at Indore “Tailoring magneto-transport phenomena in magnetic skyrmion materials”. He published a textbook titled “ Nanostructured Materials for Next Generation Energy Storage and Conversion” in Infinite Research Publications,ISBN:978-81-973604-7-3.
- Dr B. M. Pratima has two publications in 2021, two publications in 2022, one in 2023, four in 2025. She is an Editor for the book titled “USEFUL PROMPTS FOR ACADEMICIANS” Heduna Peer International Research And Reviews ISBN – 978-81-980146-7-2. She has a patent titled ‘TITANIA-SILICA COATING FOR METAL SURFACES AND OPTICAL COATING APPLICATIONS’ Patent No: 526956; Patent Application no. 20184103 filed at IITMadras. She was awarded the best paper award in 2022 Second Global Conference on Recent Advances in Sustainable Materials (GC-RASM 2022). She has one in-house seed grant
- Dr. Bunty Rani Roy joined in 2024 and has one paper published in 2025, and a book with Dr. Shanmukha Rao as Co-Author titled “An Introduction to Thermal Physics” ISBN: 987-81-99-3817-1-1, REST Publishers.

The Department of Physics faculty has totally been funded with nine in-house seed grant

projects on various fields like magnetism, radiation physics and thin films for surface protection and EMI shielding.