

VC Message

Glad to learn that the Department of Physics and Electronics is conducting a two-day National Conference on "Recent Trends in Advanced Materials" on February 15 & 16, 2024.

The Department of Physics & Electronics was started with UG Courses during the academic year 1991-92 and M.Sc. Courses in the "World Year of Physics – 2005" i.e., during the academic year 2005 -06. The Department imparts excellent learning in Physics and Electronics, through its qualified and dedicated faculty aided by well-equipped laboratories and the latest books in the library catering to the needs of students. The Department is now offering Ph.D., M.Sc. and B.Sc. courses. The faculty encourages and motivates the students to participate in various academic and social activities. Presently, the Department has 18 Ph.D. research scholars, and three of them have already submitted their theses.

"Tama Soma Jyothirgamaya" from Brahadaranyaka Upanishad inspired us to lead our students from ignorance to awareness in our successful journey that commenced in 1991. Chaitanya (Deemed to be University), earlier known as Chaitanya Group of Colleges, have made steady and phenomenal progress in imparting quality education with several awards and accolades. Our vision is to take CDU to greater heights with good digital governance and sound academic standards. Eventually, we want to make CDU a Center of Academic Excellence for a knowledge society.

This conference aims to gain latest knowledge on different materials having novel applications. Let me share some materials that were gaining attention for novel applications in physics and electronics: graphene is known for its exceptional strength and electrical conductivity, and has applications in flexible electronics, sensors, and even potential advancements in quantum computing. Topological Insulators have unique electronic properties that make them promising for quantum computing and spintronics, where the spin of electrons is used for information processing. Perovskite Solar Cells show promise in solar cell technology due to their low-cost production and high efficiency, potentially revolutionizing renewable energy. Engineered Metamaterials with properties not found in nature have applications in cloaking devices, super lenses, and other advanced optics. 2D Materials (other than Graphene) like Transition Metal Dichalcogenides (TMDs) have gained attention for their unique electronic properties, opening possibilities for future electronics and optoelectronics. Nanoscale semiconductor particles with quantum properties, quantum dots find applications in displays, medical imaging, and quantum computing.

Let us keep in mind that the field evolves rapidly, and new materials and applications keep emerging. For the latest information, Conferences like this will introduce us to the recent scientific news or publications in materials science and electronics. Eminent personalities from industries, research organizations and academic institutions are going to share their views about innovative research topics.

Hope this conference will provide a significant platform for students, research scholars and academicians to interact with the distinguished personalities, and plan their academic pursuits.

Chancellor Message

I am pleased to know that the Department of Physics and Electronics is conducting a two-day National Conference on "Recent Trends in Advanced Materials" on February 15 & 16, 2024. *Aano bhadra krtavo yantu vishwatah*. Let noble thoughts come to us from all directions, says Rigveda.

The AICTE identified 30 technical educational institutions in India adopting the Best Practices in 2018. We are happy to mention that our MBA and MCA programs are among these 30 Institutions. Just to let you know, in Telangana State, only three colleges had this honour.

We have initiated a positive action to encourage research in post-graduate courses. Project work is now included as a part of the curriculum. Sectorial specializations like Tourism and Hospitality, Health Care Management for MBA, Net Programming, Multimedia Applications, and Cloud Computing for MCA as In-House Projects were introduced. Efforts are being made to have a much more rigorous University-Industry nexus so that the batches of students get industrial experience along with academic programs by conducting meetings with the entrepreneurs in the region to impress upon the need to support the students' training programs in their establishments so that they and others can employ them after completion of their courses. We have conducted three 'Meet-the-Manager' Programs in this direction.

Based on the recommendation of the UGC, the Ministry of Education, Department of Higher Education, ICR Division, has permitted us to shift our campus to the vicinity of Hyderabad. The UGC has also permitted us to offer B.Sc. Nursing from this academic year. We introduced B.Sc (Hons) Agriculture course last year.

NEP Monitoring Cell, IIC, ABC, Students' Grievance Cell, Institutional Academic Integrity Panel (IAIP), Anti Plagiarism Cell and some other cells and clubs, expected of a deemed university, have been constituted.

Our other initiatives include Academic Interphase Programs with TCS and IBM, Earn-While-You-Learn Scheme with four IT hubs on our campus, Best Paper and Patent Publication Awards with gold medals, Free-ships and scholarships worth 1.54 crore, and Implementation of some provisions of National Education Policy 2020. Our Chancellor attended Akhil Bharatiya Shiksha Samagam (ABSS) coinciding with the 3rd anniversary of National Education Policy 2020 which was addressed by our Hon'ble Prime Minister Modiji at ITPO, Pragathi Maidan, New Delhi, on July 29, 2023.

Our 11th Convocation was held on March 4, 2023. Former Vice-President, Shri Venkaiah Naidu garu delivered the Convocation Address. 920 students received their degrees. In all 6 degree rankers and 7 PG rankers are awarded with gold medals.

SCHOLARSHIPS / FREESHIPS

The University offers various professional and non-professional courses at Undergraduate, Post Graduate and Doctoral levels. It also offers Academic Interface Programs with TCS and IBM certificate courses.

Management encourages meritorious students who are admitted into various courses at our University by awarding scholarships/free ship. During 2022-23, an amount of Rs.1, 03, 39, 000 was given as a free ship. Apart from this, the deserving students of our colleges are receiving Scholarships like Inspire Scholarships from the Department of Science and Technology, Government of India, Central Sector Scheme of Scholarships from BIE, Postgraduate Indira Gandhi Scholarship for Single Girl Child and Postgraduate Scholarships for professional courses for SC/ST students from University Grants Commission New Delhi, etc.

TOWARDS RESEARCH AND INNOVATIVE DRIVEN UNIVERSITY

Our university is marching towards a Research and Innovative driven one. Our Management facilitates both the teachers and the students to present their research papers in seminars and symposia and also publication in national and international journals. We have about 558 PhD scholars of four batches working under 88 supervisors including nine co-supervisors in 22 departments. Forty five research scholars of 2020 batch have already submitted their theses, and ten scholars were qualified for their Ph.D. as on February 1, 2024.

To promote quality research at our University, we conduct Research Review Meetings with Ph.D. scholars and their supervisors twice a month. Attendance with screenshots is shared in the Research Group and it is monitored by the Dean of Research.

We have instituted University Research Fellowships (URFs) for PhD scholars to encourage meritorious students. The Gold Medalists of PG courses are eligible for these fellowships. We have brought out five faculty-wise research journals, and got them E-ISSN allotted. Our university has seven innovations and 104 patents and patent publications to its credit as of February 2024. We have started International Center for Interdisciplinary Studies (ICIS-CDU) in association with Azteca University, Mexico, and brought its first book titled *Advances and Concerns in Agricultural & Environmental Information Systems in SOCIETY 5.0* (Inter-disciplinary Knowledge Series), (with PK Paul, G. Shankar Lingam and N. Sateesh Kumar) ISBN: 978-81-190006-67-0.

We are promoting inter-disciplinary research in collaboration with Research India Foundation, Bhuvaneshwar, Odissa.

The Dean of Research and Development implements a rigorous system of completing a thesis. The registered PhD scholars have to attend Regular Research Review Meeting twice a month and submit their Progress Report. To submit their theses, they should get at least two articles published in UGC Care listed or Scopus journals and undergo plagiarism check. After carrying out the suggestions made in their pre-submission seminars, the scholars are allowed to submit their theses after a thorough scrutiny.

Our DBT Skill Vigyan Program is under active consideration by TSCOST. We have made proposals for Atal Chaitanya Incubation and Innovation Center, and BIRAC under Bio-Nest in collaboration with University of Hyderabad.

RESEARCH ACTIVITIES

Universities are expected to undertake research related activities seriously and we understand them and implement them in the right earnest. We are bringing out faculty-wise research journals. *Current English Review (CER)*, edited by Prof G. Damodar, ISSN: 2984-8725, *Prakarsha, Journal of Management and Research* edited by Prof P. Rajendar. ISSN: 2984-8709, *Journal of Bio Scientia* edited by Prof Anuradha and Prof S. Jeevan Chandra, ISSN: 2984-8717, *Journal of Pharmacy and Drug Research*. Edited by Prof. V. Mallikarjun, ISSN: 2984-8695 and *Journal of Innovative Exploration in Engineering and Technology*, edited by Prof G. Shankar Lingam, ISSN: 2984-8733.

CHAITANYAM

In addition to the above research journals, a novel research-oriented initiative called *Chaitanyam* was instituted at our university to encourage high impact factor papers with original ideas and patents, and to promote serious and sustained academic work by the staff and research scholars. The Management instituted Gold Medals to be awarded to the faculty who have produced remarkable Research Work in the form of Research Publications and Patents in the faculties of Science, Commerce and Business Management, Pharmacy and Engineering & Technology.

UGC, New Delhi has provided Urukund anti plagiarism software to Chaitanya (Deemed to be University) for Plagiarism Check for Research Publications, submission of project proposals and Ph.D. thesis.

We have so far conducted 33 national and international seminars, conferences FDPS, workshops and webinars. In August 2023 we conducted the second International Conference on "Computational Intelligence and Sustainable Development" in association with Azteca University, Mexico. A Mega International Conference on "Disciplinary, Interdisciplinary and Multidisciplinary Research-2020-2021. (IVC-DIMR 20-21)" was conducted on October, 14 & 15, 2021 with the thrust areas of Ecology, Culture, Language, Education, Communication, Technology, Innovation, Collaboration (ECLECTIC), fully supported by some Scopus-Index Journals in collaboration with Research India Foundation (RIF), a Government of India approved research foundation in India.

Institution Innovation Council was established in accordance with the guidelines of the Ministry of Education, and it has so far conducted six self-driven and celebration activities. The AICTE Student Learning Assessment Project called PARAKH is being implemented in all earnest, and we got 280th rank out of 3,413 institutions in the country.

It is heartening to note that all together 122 foreign students joined various courses at our university this year, 386 last year from 15 countries, such as Bhutan, Brazil, Eritrea, Ethiopia, Gambia, Iran, Kenya, Nepal, Oman, Somalia, South Sudan, Sudan, Tanzania, Yemen, and the USA. We have International Collaboration Program with Eastern Michigan University. Six students have got their visas to study at Eastern Michigan University, USA. Three scholars from Yemen are doing Ph.D. in Computer Science. We have 415 non-local students from nine states of Assam, Bihar, Delhi, Jharkhand, Maharashtra, Manipur, Orissa, Tripura, and West Bengal.

We have launched Industry Oriented Training Program titled THURST (Training for Holistic and Rigorous Upgradation of Skills and Talents) for better placement opportunities. We have so far 32 academic and industry partners for academic programs, research activities, placements and exchange programs. Our university is a founding member of Indo-American Initiative of Consortium for Advancing Indian Tertiary Education (CITEGLOBAL.ORG), Pune, supported by Association of Indian Universities (AIU).

19 episodes of Chaitanya Talent Quiz programs were telecast and the winning teams were given cash awards of ₹10,000 in each episode and one lakh award to the final winning team.

EARN-WHILE-YOU-LEARN PROGRAM

The University provides job opportunities to the PG students to get placements while pursuing their courses in US based Softpath System, Exceed Management Pvt. Ltd., established at our University under Earn-While-You-Learn Program.

IMPLEMENTATION OF NEP-2020

We have already started implementing some provisions of the National Education Policy, 2020 by revamping the syllabi as per UGC's latest Learning Outcomes Based Curriculum Framework (LOCF) and offering 4 Year Degree Course. We have entered into MoU with Tata Consultancy Services, IICT, CSIR and IBM for the introduction of "Industry Integrated Courses" the current academic year. This is a good sign of linkage of industry with academic institutions as envisaged in the NEP.

In response to the DOF of UGC dated November 18, 2021, we have established "NEP Cell" with the VC as Chairman, a Member Secretary, and thirteen others as Members. The Cell makes the UGC initiatives operational as well as monitors their progress regularly. It also gives importance to the initiatives aimed at improving accessibility, equity, quality, affordability, accountability, and thereby bringing about transformative reforms on our campus as envisaged by the NEP.

We introduced NCC as a General Generic Elective Credit Course under CBCS to align with National Education Policy 2020 recommended by the UGC on April 15, 2021, for our 280

NCC Cadets who will have excellent opportunities to join the Army, Navy and Air Force. Ours is the only Deemed University chosen in Telangana for this course.

For the second time, our NCC SUO, G. Shva Shankar of B.Sc. final year participated in the prestigious Republic Day Parade in New Delhi this year. Last year, B. Ashvardhan and P. Rajashekar had this privilege. Our NCC Officer Capt Dr G. Vijay received Vishisha Seva Ratna Award from Justice S. Nanda at TIF, Hyderabad. The Selection Board for CTOs of NCC is generally headed by the Vice-Chancellor of a University as the Chairman. This year our university was invited. I conducted the interviews as the Chairman along with the Group Commander and other officers to select 40 CTOs of NCC on July 20, 2023.

Our two NSS students, B. Pradeep and K. Akhila, were invited to Floral Tribute Program held in the Parliament House. Sarayu Gugulothu of BCA Final Year was shortlisted for stage 2 of Young Leaders Program of ISB.

Responding to the call by the Centre, the NSS Unit of our university has conducted various events as part of *Azadika Amruth Mahostav* called AKAM. Samvidaan Diwas, Vaccination Drive four times, Voter Awareness, International Yoga Day every year, National Youth Day and distribution of bed sheets to the homeless people were conducted besides our ISR activities. The book titled, *Fit Bharat through Yoga*, was launched under Institutional Social Responsibility (ISR) of NEP by NSS of CDU.

On Independence Day we remembered 75 unsung heroes of our great Freedom Movement and paid rich tributes to them. Patriotic songs, painting, GK test, essay writing, poetry on contemporary issues, poster making, turncoat debate, elocution, and short video concepts were organized. In addition to two blood donation camps, tree plantation, sahid diwas, khargil diwas, science day, a cup of rice, and Swatch Bharat activities at different places were taken up. Clean India (Swachh Bharat) for two days, Say No to Plastic with National Green Core; Voter's New Enrolment; Distribution of Bed-sheets to 150 homeless people; Samvidhan Diwas for two days; "Eat Right Mela" in collaboration with FSSAI; Rakhis to Real Heroes of our Army through Samskriti Foundation; Partition Horror Remembrance Day; and National Youth Day on the occasion of Swami Vivekananda's Birthday were conducted.