

CH.S.D.ST THERESA'S COLLEGE FOR WOMEN, ELURU



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Dr.P.Ratna Mary, Lecturer in Economics

Mrs.A.Padmavathi, Lecturer in Applied Sciences

Mrs.Santosh, Lecturer in Management Studies

Vision

Innovation is always a dynamic activity, and often there is the need to nurture ideation. In an academic institute, the existence of a central body to channelize the abundant thought diversity is only logical. To groom and build a community of leaders is one of the founding principles of Ch. S.D. St. Theresa's College for Women. We aim to fulfill this dream through the CII in addition to other avenues.

Aim

The Centre for Innovation and Incubation (CII) aims to nurture innovation, and encourage the talents among the students and faculty. It facilitates interdisciplinary research and provides incubation facilities to take up innovative projects adopting a progressive stance, welcoming change and innovation for sustainable development .

Objectives

- To create physical infrastructure and support systems necessary for Innovation and Incubation activities.
- To build know-how networks
- To train innovators, academics and students to increase awareness of how to develop high-impact entrepreneurial ventures.
- To facilitate networking with professional resources, which include mentors, experts, consultants and advisors for the incubatee companies
- To establish links to higher education resources.
- To promote and facilitate knowledge creation and innovation .

Inauguration of Centre for Innovation and Incubation



On 14th November 2016 the Department of Physics and Electronics organized “**Bhuvan Familiarization Workshop**” in collaboration with National Remote Sensing Centre /ISRO. The resource persons for this workshop are Mr.Vinod M Bothale, Group director, Geo portal & web GIS services NRSC / ISRO and Ms Vijay Banu ,Manager, Bhuvan Technology incubation outreach, RC, NRSC/ISRO.

On the occasion of the two institutions coming together to start a collaborative and innovative program using Bhuvan, the Center for Innovation &Incubation was

inaugurated by lighting the lamp. The resource persons from NRSC /ISRO , Principal Dr.Sr.Mercy and all the heads of various departments have participated in this .

The institution has adopted a progressive stance welcoming change and innovation for sustainable development. Integrating innovation with resourcefulness and resorting to exclusive practices in academic, extension,co-curricular teaching/learning methodologies, research and personal development has resulted in the institution working ceaselessly towards inventive and constructive growth on all fronts. Young learners are exposed to the latest developments in the frontiers of knowledge through the highest standards of learning methodologies. Research orientation towards societal growth is also geared towards adaptation of latest techniques and methodologies by faculty and students. The innovation Incubation Centre plays a pivotal role in encouraging creativity in academic and research activities. Incubation chapters at department levels promote innovation in students and faculty with best research ideas, projects being rewarded and recognized by the Government and college.

The institution is provided with necessary infrastructure to support and encourage faculty and students to take up meaningful and need-based research projects and programmes. Collaborative research with industry and government and non-government organizations has resulted in a marked upswing of constructive activities for the growth of the city and district. Major Research projects undertaken focus primarily on holistic sustainable development of the district, some of them being women empowerment, health and hygiene, water analysis, pollution and its eradication etc. A Major Project inspired by the Swachh Bharat Mission – “Solid Waste Management in Eluru in collaboration with the Eluru Municipality” has

successfully addressed issues pertaining to hygiene and health and paved way for the process of transformation as a smart city.

Group and individual projects undertaken at U.G. and P.G. level inculcate scientific temper and spirit of enquiry. Projects on interdisciplinary areas throw light on holistic approaches for sustainable development. Every year the final year degree students undertake research projects which are in accordance with societal demands and are innovative in content. Geo-tagging, in collaboration with ISRO, green auditing, running of student-managed banks, co-operative departmental stores provide insightful views and thorough knowledge about concepts and practices.

Eco friendly initiatives for environmental sustainability are undertaken to, train students towards eco-consciousness, plastic free zone, green energy, rain water harvesting and use of sustainable and renewable energy, with a solar energy plant of 100 KW capacity on campus. A green house on campus along with model vermi-composting unit, organic farm, kitchen gardens, model square foot roof top gardens, model aquariums, drip irrigation system, medicinal herbal garden enable students to become deeply conscious of sustainable environment for healthy growth. Recycling of paper, through installation of a paper recycling unit, proper disposal of solid wastes have been transformed into Mega Projects involving the district Municipal Corporation. Conduct of Green audit of all the flora on campus is a step towards exposing learners to recognize and respect plant species. Further, Geo-tagging St. Theresa's Campus has clearly mapped out the verdant green canopy and facilities that greets the eyes of visitors. Geo tagging of Eluru on Bhuvan portal through National Remote Sensing Centre/ISRO and similar projects play a vital role in creating, encouraging research and development nature in students.

Innovations in adapting new methodologies and industry linked academic programmes has been undertaken to promote out-reach programmes. Need based curriculum with innovative modules foster diverse skills and empower student's. Learner centric teaching methods ranging from webinars to e-learning and e-content development make learning technologically advanced and effective. Credit transfer programmes, student and faculty exchange programmes, earn-while-you learn schemes, internships in various disciplines accord learning experience through innovative methods. Knowledge extension programmes which foster interdisciplinary dissemination of knowledge, observance of various days of significance lends a unique ambience of excellence on campus.

Research:

- Research culture is inculcated among the students through mandatory project work in UG final year and PG second year.
- Case studies and seminars are an integral part of research activities.
- Students are introduced to journals, research books, encyclopedia's, INFLIBNET – on-line journals, e-books as study material.
- Student's research also incorporate conducting surveys, serving questionnaires, tabulation of data and using different methodologies to write reports on selected data.
- Participation in seminars of the State, National and International level by faculty and students motivate students for innovative research.
- Live projects related to curriculum such as organic farming, Azola cultivation, landscaping, low cost nutritious recipes, green house maintenance of electronic gadgets etc. lend practical training and research orientation.

The projects for which seed money is allotted by the Management

1. A student project on **“A study on Environmental Hygiene in selected slums of Eluru Municipal Corporation for Swachh Sarvekshan”** guided by Dr. R. Indira, Dept. of Zoology
2. A student project on **“Urban Slum Survey- Eluru”** by Dr. K. L. Saraswathi, Dept. of Mathematics.
3. Mrs. A. Padmavathi ,Asst.Prof, Microbiology for pursuing PhD on **“Isolation and Screening of Polygalacturonase producing bacteria from different commercial Crops of W.G.District”**
4. **Sr. Showrilu. K,** Asst.Prof. Physics for pursuing PhD on **Crystallographic Studies**
5. Sr. Sunila Rani, Asst. Prof, Microbiology for pursuing PhD on **“Green synthesis and Characterization of Silver Nano Particles using extracts of mangrove plants and their antifungal and anti bacterial activity”**.
6. **Mrs. Neeraja,** Asst. Prof, Microbiology for pursuing PhD on **“Extraction of oil from algae isolated from fresh water”**
7. **Dr. Sarma** Seminar on **“Evaluation of Perceptions of LIC Policy holders in Eluru of West Godari District”**