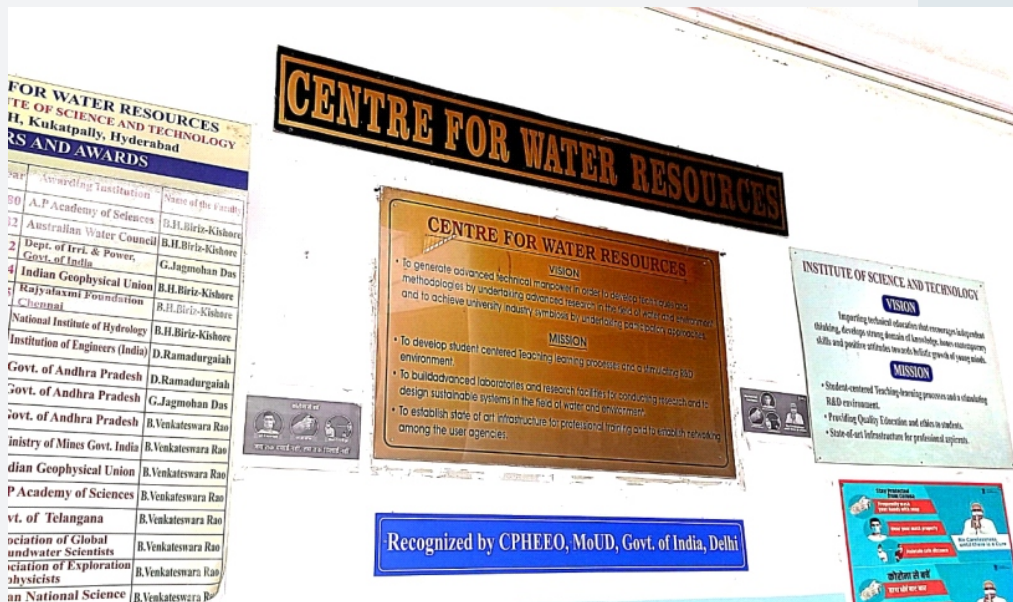




NEWSLETTER 2022-23

CENTRE FOR WATER RESOURCES, IST, JNTUH



Dr.Ch.Sasikala
Director, Institute of Science and Technology, JNTUH



Dr.M.V.S.S.Giridhar
Head of the Department

The Centre for Water Resources (CWR) which forms a part of the Institute of Science and Technology, JNT University, Hyderabad was established in the year 1984 with the funding from the then Ministry of Education and Culture, Government of India to impart training in the management of water resources at an advanced level and to undertake research and development activities in the field of water, land and environmental management and other related areas. Since then the Centre has acquired a reputation among user agencies like state and Central Government Departments and other public sector and private organizations as an apex body for imparting Education, training and undertaking field oriented research projects in water, land and environmental management. Over the years the activities of the Centre has been greatly diversified and has concentrated on water, land and environment for sustainable development with networking from National and International Organization Central public Health and Environmental Engineering Organization has recognized this Centre as one of the renowned institute offering P.G. courses in water and environment. The Centre is funded by the World Bank under Technical Education Quality improvements program me (TEQIP) and established well-equipped laboratories. Research and Consultancy projects were taken up in many areas of water resources and environment at National and International levels. Many National and International conferences were also conducted by the Centre notable among them is ICHWAM (International Conference on Hydrology and Watershed Management) series which is being conducted for every four years.

Vision

To generate advanced technical man power in order to develop techniques and methodologies by undertaking advanced research in the field of water and environment and to achieve university symbiosis by undertaking participatory approaches.

Mission

- Student centered Teaching learning processes and a stimulating R&D environment.
- To build advanced laboratories for conducting research and to design sustainable systems for water and environment.
- To establish state of art infrastructure for professional training and to establish networking among the user agencies.

Program Educational Objectives (PEOs)

- PEO1:** To prepare the students as one of the problems solving engineers/technologists in water, land and environmental fields.
- PEO2:** To generate technical man power at advanced level to maintain and manage the existing infrastructure of water, land and environment of the nation.
- PEO3:** To impart technical training to the students that empowers them to withstand changing technological environment in order to cope with the natural climate change and environment.
- PEO4:** To develop the students' personality in such a manner that they become responsible citizens in the society.

CWR, IST, JNTUH Staff

Teaching Staff:

Dr.C.Sarala

Professor of Water Resources

Working since 2000

Specialized in Water and Waste Water Treatment Technologies



Dr. M.V.S.S. Giridhar

Professor of Water Resources

Working since 2006

Specialized in RS & GIS applications, Rainfall-runoff modeling, Rain water harvesting



Technical Staff:

1. Mr.P.Bhasker Naik
2. Ms.T.Pavani
3. Sri.R.Ramu
4. Smt.A.Latha

Full Time Research Scholars

Ms.Shyama Mohan	2018-2022
Mr. V.Narasaiah	2014
Mrs.G.Hepsi Swarupa Rani	2014
Mr.D.Ajay Kumar	2019-2023
Ms.M.Ramya	2019

Patents Filed

Dr. M.V.S.S. Giridhar

1. A Patent Titled “Replenishing Aquifers with Excess Surface Flows above FSL of Canals/ Tanks/ Lakes through Filter Coupled Recharge Shaft” with application number 6710/CHE/2015.
Published in gazette dated 15/01/2016
2. A Patent Titled “Application of Geo Membrane Sheet in the Rain Water Harvesting Structures” with application number 640/CHE/2015.
Published in gazette dated 24/04/2015

Ongoing Research Projects

Dr. M.V.S.S. Giridhar

- Advanced remote sensing technologies to study the impact of Fluoride on paddy cultivation due to groundwater irrigation
Funded by : Telangana State Council of Science & Technology (TSCOST), Duration: One year (2021-2022), Amount sanctioned: 04 Lakhs
- Constructed wetland for treatment of domestic sewage
Funded by : Central Public Health and Environmental Engineering Organisation (CPHEEO), Duration: One year (2021-2022), Amount sanctioned: 03 Lakhs

Academic Distinctions/Awards

Dr. M.V.S.S. Giridhar

- Award for “Save The Environment Water Award,2022”
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- Awarded by Save the Environment in Joint collaboration with Hindu college, Delhi University in association with CSIR-NEERI, Delhi zonal centre and RSC-London



Dr. B. Venkateswara Rao

- Awarded “Distinguished Fellow of Association of Global Ground Water Scientists-2022”
Awarded by “AGGS, IIT Roorkee”

Consultancy works

Dr. M.V.S.S. Giridhar

- Consultancy charges for the Rain Water Harvesting Structures (RWHS)
- 7.0 MLD STP at Durgam Cheruvu
- 37.0 MLD STP at Amber Cheruvu
- 133.0 MLD STP at Fathe Nagar
- 10.0 MLD STP at Vennelagadda
- Vetting of preliminary draft status reports on Mizoram
- Vetting of preliminary draft status reports on Nagaland
- 20.0 MLD STP at Kamunicheruvu
- 7.0 MLD STP at Miyapur Patel Cheruvu
- 28.0 MLD STP at Pariki Cheruvu
- Consultancy for Water Conservation

Books published

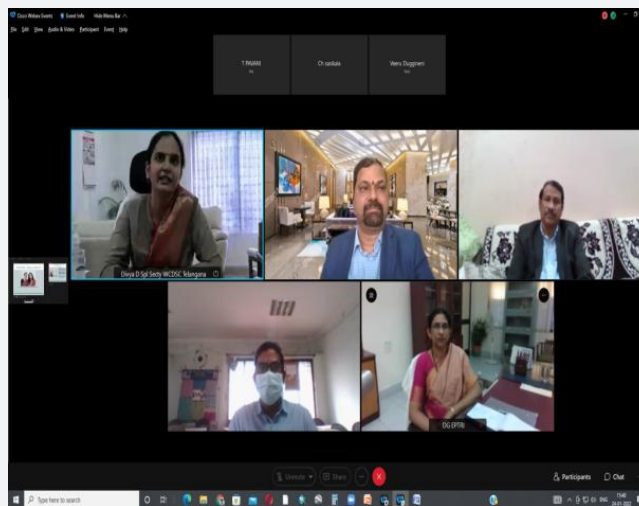
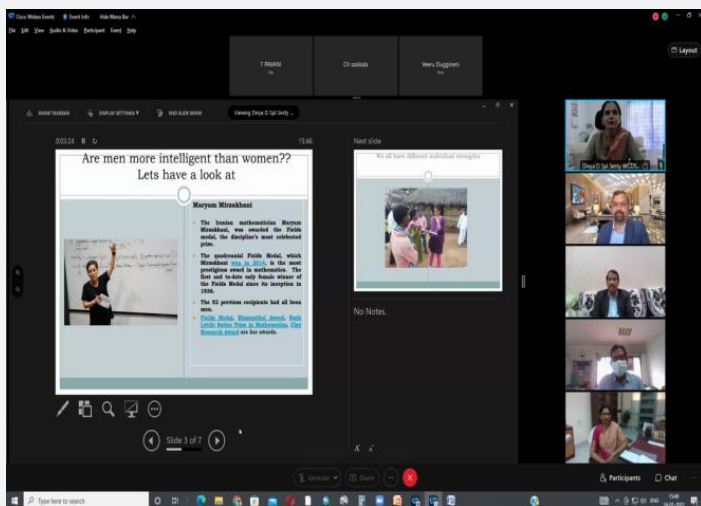
Dr. M.V.S.S. Giridhar (2022), “Utility of Geomatics in Land Use Land Cover Change Detection and Accuracy Analysis” Springer Publications

Conferences/Seminars/Workshops Organized

1. Workshop on Girl child celebrations

Convener: Dr. M.V.S.S. Giridhar

Dates: 24th January, 2022



21. Workshop on Climate Change

Convener: Dr. M.V.S.S. Giridhar

Dates: 28th September, 2022



3. Workshop on World Water Day
Convener: Dr. C.Sarala
Dates: 22nd March 2022



4. Seminar on Water for Smart Livable Cities with a special theme on Water Resources & Large Scale Water Management
Convener: Dr. M.V.S.S. Giridhar
Dates: 16 & 17th March, 2022



Research Papers Published in Journals

- **Padmaja G and Giridhar MVSS (2022)**, “Calibration and Uncertainty Analysis of Hussainsagar Watershed using SWAT-CUP, Sufi-2 Approach”, Ecology, Environment and Conservation, ISSN: 0971-765X

M.Tech Water & Environmental Technology 2020 batch topper



Mr. Ghantasala Achyuth
20031D5917
CGPA: 8.95

Value Added Courses

Value Added Course-1

Title: Value Added Course on “Disaster Management & Forecasting”

Duration: 9th July to 30th July 2022.

No. of students completed the course: 07

<p>Value Added Course on “Disaster Management & Forecasting”</p>  <p>9th July to 30th July 2022</p> <p>Organized By Centre for Water Resources Institute of Science & Technology Jawaharlal Nehru Technological University Hyderabad Kukatpally, Hyderabad- 500085.</p> <p>Website: www.jntuh.ac.in www.jntuhist.ac.in</p>	<p>Venue</p> <p>New IST Seminar Hall Jawaharlal Nehru Technological University Hyderabad Kukatpally, Hyderabad.</p> <p>CONVENER Dr. MVSS Giridhar Associate Professor Centre for Water Resource Institute of Science and Technology (IST), Jawaharlal Nehru Technological University Hyderabad, Telangana State.</p> <p>LIST OF SPEAKERS</p> <p>Dr. A. Jayasree Professor Centre for Chemical Sciences & Technology IST, JNTU, Hyderabad.</p> <p>Dr. T. Vijayalakshmi Associate Professor Centre for Environment IST, JNTUH, Hyderabad.</p> <p>Dr. C. Sarala Professor Centre for Water Resources IST, JNTUH, Hyderabad.</p>
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ABOUT HOST ORGANIZATION:

Jawaharlal Nehru Technology University Hyderabad, situated at Kukatpally, Hyderabad is carved out of Multi-Campus JNTU in the year 2009. JNTU was established on 2nd October 1972 and has been divided into 4 different Universities namely JNTU Hyderabad, JNTU Anantapur, JNTU Kakinada and Jawaharlal Nehru Architecture and Fine Arts University, with the aim to make higher education accessible for rural area students and also for administrative convenience. JNTUH is a premier institution that offers academic programmes at UG and PG level in core areas of engineering and Inter-disciplinary areas of Science and Technology besides Management courses and Distance Education Programmes.

The Institute of Science & Technology, a constituent unit of JNTUH is presently offering Post graduate programmes in interdisciplinary areas of Science & Technology. Some of the areas include Biotechnology, Chemical Engineering, Environment, Geospatial Technologies, Nanotechnology, Pharmacy and Water Resources.

ABOUT THE VALUE ADDED COURSE:

Centre for Water Resources, Institute of Science & Technology, JNTUH is organizing a Value Added Course on "English in Scientific Writing & Publishing" during 9th July to 30th July 2022. The main aim of the workshop is to provide a scientific basis to the system and reliable technology for monitoring and detecting hazards in real time or near real time and providing forecasts and warnings continuously. It also explores the monitoring of hazard parameters and their precursors is essential to generate accurate warnings in a timely fashion that allow sufficient time for the affected community or communities to enact their disaster management plans appropriate for that hazard.

Value Added Course Dates:

9/07/2022 (Saturday)
16/07/2022 (Saturday)
23/07/2022 (Saturday)
30/07/2022 (Saturday)

Value Added Course-2

Title: English for Science, Technology & Engineering

Duration: 3rd Dec to 24th Dec 2022

No. of students completed the course: 11

ABOUT VALUE ADDED COURSE

This Value added course focus on, explore some of the most innovative areas of scientific study, while expanding vocabulary and the language skills needed to share scientific information within the scientific community. And it also focuses on how to improve the English language skills to publish the research papers in Science and Engineering.

COORDINATOR

Dr. C.Sarala

Professor

Centre for Water Resources

Institute of Science and Technology (IST),
Jawaharlal Nehru Technological University Hyderabad, Telangana
State, India.

VALUE ADDED COURSE On English for Science, Technology & Engineering

3rd Dec to 24th Dec 2022



Organized by

Centre for Water Resources
Institute of Science and Technology Jawaharlal
Nehru Technological University Hyderabad
Kukatpally, Telangana, INDIA 500085.

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LIST OF SPEAKERS:

1. Prof. Ch. Sasikala

**Professor
CEN, IST, JNTUH
Hyderabad.**

2. Dr. C. Sarala

**Professor
CWR, IST, JNTUH
Hyderabad.**

3. Dr. Archana Giri

**Professor
CBT, IST, JNTUH
Hyderabad.**

4. Dr. MVSS Giridhar

**Professor
CWR, IST, JNTUH
Hyderabad.**