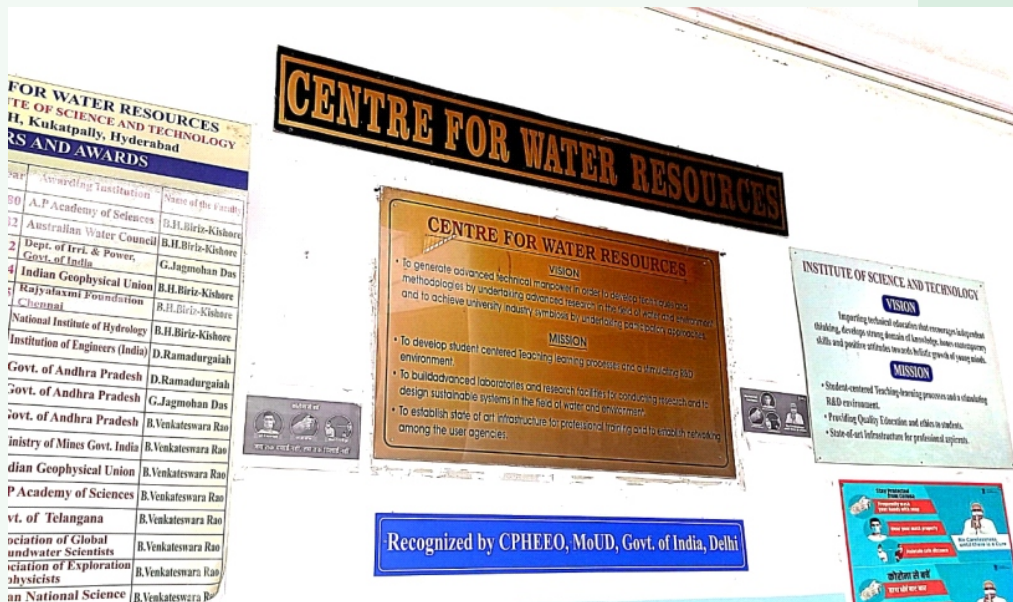




# NEWSLETTER 2021-22

## CENTRE FOR WATER RESOURCES, IST, JNTUH



| AWARDS AND AWARDS                            |                     |
|--|---------------------|
| Awarding Institution                         | Name of the Faculty |
| 10 A.P. Academy of Sciences                  | B.H. Biris-Kishore  |
| 12 Australian Water Council                  | B.H. Biris-Kishore  |
| 2 Dept. of Irrig. & Power, Govt. of India    | G. Jagmohan Das     |
| 4 Indian Geophysical Union                   | B.H. Biris-Kishore  |
| 5 Rajyalaxmi Foundation, Chennai             | B.H. Biris-Kishore  |
| National Institute of Hydrology              | B.H. Biris-Kishore  |
| Institution of Engineers (India)             | D. Ramadurgaiah     |
| Govt. of Andhra Pradesh                      | D. Ramadurgaiah     |
| Govt. of Andhra Pradesh                      | G. Jagmohan Das     |
| Govt. of Andhra Pradesh                      | B. Venkateswara Rao |
| Ministry of Mines Govt. India                | B. Venkateswara Rao |
| Indian Geophysical Union                     | B. Venkateswara Rao |
| A.P. Academy of Sciences                     | B. Venkateswara Rao |
| Govt. of Telangana                           | B. Venkateswara Rao |
| Association of Global Groundwater Scientists | B. Venkateswara Rao |
| Association of Exploration Geophysicists     | B. Venkateswara Rao |
| Indian National Science                      | B. Venkateswara Rao |



**Dr. G. Krishna Mohan**  
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.

## NBA Accreditation

**NATIONAL BOARD OF ACCREDITATION**  
 Building, 4<sup>th</sup> Floor, Bhitam Pitham Marg,  
 Hyderabad-500088  
 Phone: +91 020-2224300554 ; Telefax: +91 11 4308 4903  
 www.nba.ac.in

**NBA**  
 NATIONAL BOARD  
 OF ACCREDITATION

File No. 11-68-2010-NBA Dated: 29-05-2019

To  
 The Director,  
 JNTUH Institute of Sci. & Tech. (IST),  
 Kukatpally, Hyderabad-500088  
 Telangana

Subject: Accreditation status of programmes applied by JNTUH Institute of Sci. & Tech. (IST),  
 Kukatpally, Hyderabad-500088 Telangana.

Sir/Madam,

This has reference to your application I.D. No. 207-14/10/2016 seeking accreditation by National Board of Accreditation in May, 2017 format to PG Engineering programs offered by JNTUH Institute of Sci. & Tech. (IST), Kukatpally, Hyderabad-500088 Telangana.

2. An Expert Team conducted on-site evaluation of the programs from 26<sup>th</sup>-28<sup>th</sup> October, 2018 and further visit on 09<sup>th</sup> March, 2019. The report submitted by the Expert Team was considered by the concerned Committees constituted for the purpose in NBA. The competent authority in NBA has approved the following accreditation status to the programs as given in the table below:

| Sl. No. | Name of the Program(s) (PG)      | Basis of Evaluation | Accreditation Status | Period of validity  | Remarks   |
|---------|----------------------------------|---------------------|----------------------|---|---|
| (1)     | (2)                              | (3)                 | (4)                  | (5)   | (6)   |
| 1.      | Water & Environmental Technology | May, 2017 Document  | Accredited           | Academic Years 2018-2019 to 2020-2021 i.e. Up to 30-06-2021 | Accreditation status granted is valid for the period indicated in Col.5 or till the program has the approval of the competent authority, whichever is earlier |
| 2.      | Biotechnology                    |                     | Accredited           |   |   |
| 3.      | Environmental Management         |                     | Accredited           |   |   |
| 4.      | Environmental Geomatics          |                     | *Accredited          |   |   |

\*Observations made during the course of evaluation are indicated in annexure to this letter.

3. It may be noted that only students who graduate during the validity period of accreditation, will be deemed to have graduated with an NBA accredited degree.

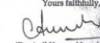
5. The accreditation status awarded to the programs as indicated in the above table does not imply that the accreditation has been granted to JNTUH Institute of Sci. & Tech. (IST), Kukatpally, Hyderabad-500088 Telangana as a whole. As such the Institutions should nowhere along with its name including on its letter head etc. write that it is accredited by NBA because it is program accreditation and not Institution accreditation. If such an instance comes to NBA's notice, this will be viewed seriously. Complete name of the program(s) accredited, level of program(s) and the period of validity of accreditation, as well as the Academic Year from which the accreditation is effective should be mentioned unambiguously whenever and wherever it is required to indicate the status of accreditation by NBA.

6. The accreditation status of the above programs is subject to change on periodic review conducted by the NBA. It is desired that the relevant information in respect of accredited programs as indicated in the table in paragraph 2 appears on the website and information bulletins of the Institute.

7. The accreditation status awarded to the programs as indicated in table in paragraph 2 above is subject to maintenance of the current standards during the period of accreditation. If there are any changes in the status (major changes of faculty strength, organizational structure etc.), the same are required to be communicated to the NBA, with an appropriate explanatory note.

8. A copy each of the Report of Chairman of the Visiting Team and Evaluators' Reports in respect of the above programs are enclosed.

9. If the Institute is not satisfied with the decision of NBA, it may appeal within thirty days of receipt of this communication giving reasons for the same and by paying the requisite fee.

Yours faithfully,  
  
 (Dr. Anil Kumar Nassa)  
 Member Secretary

Enclose: 1. Copy of Report of Chairman of the Visiting Team.  
 2. Copy each of Expert Reports of the Visiting Team.

Copy to:

1. The Commissioner, Directorate of Technical Education, 5<sup>th</sup> and 6<sup>th</sup> Floor, B.R.K.J. Bhawan, Tankbund Road, Salfabad, Hyderabad-500063
2. Accreditation File
3. Master Accreditation folder of the State

Name of Accredited PG Program: M.Tech (Water and Environmental Technology)  
 File No: 11-68-2010-NBA  
 NBA Score: 331  
 Valid from: 2018 to 2021

## CWR, IST, JNTUH Staff

### Teaching Staff:

**Dr. B.Venkateswara Rao**  
Professor of Water Resources  
Working since 1989  
Specialized in Groundwater Hydrology & Watershed Management



**Dr.K.Ramamohan Reddy**  
Professor of Water Resources  
Working since 2000  
Specialized in Surface Water Hydrology and Hydraulics



**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

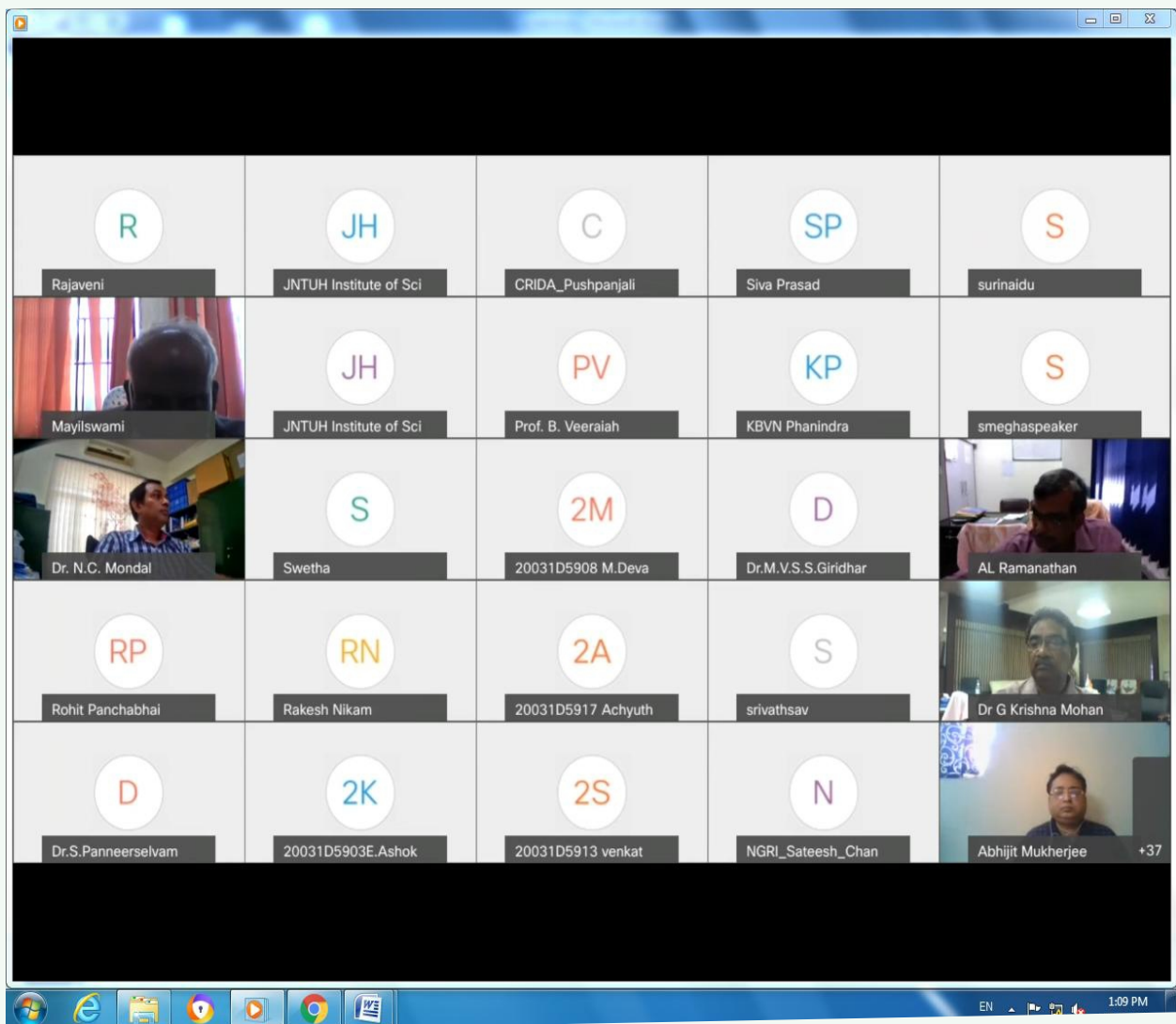
- Award for “Telangana Water Conservation Award-2021”
- Awarded by Telangana Water Resources Development Corporation

## Conferences/Seminars/Workshops Organized

Indian National Groundwater Conference (INGWC-2021)

**Convener:** Dr.B.Venkateswara Rao

**Dates:** March 22-24, 2021





TRACK - I FOURTH INDIAN NATIONAL GROUNDWATER CONFERENCE (INGWC-2021)-20210323 0413-1

2K

20031D5903 ASHOK K

Dr. Suhas Wani

Prof K V Jayakumar

DD

Dr. K. Syamala Devi

Dr V S SARMA

## What to Do for Sustainable Management of Water Resources?

- ❖ Identify Champions of IWRM e.g. “Jal Yukta Shivar”, “Neeru meeru” “Paani bachao”.
- ❖ Water stewardship through de-centralised water management at Panchayat level and involve FPOs.
- ❖ It has to become people’s movement with active participation.
- ❖ Strengthen Integrated Watershed/Catchment Management Program.
- ❖ Awareness building is critical amongst farmers as well as “Educated Illiterates”, in cities.
- ❖ What gets measured gets delivered.

All states can do better

Figure 1: State-level performance on water resource management<sup>1</sup>  
Ranking of states according to Composite Water Index Scores (CI 05-17)

| Non-Himalayan states | North-Eastern and Himalayan states |
|----------------------|------------------------------------|
| Gujarat 75           | Tripura 59                         |
| Madhya Pradesh 69    | Himachal Pradesh 53                |
| Andhra Pradesh 68    | Sikkim 48                          |
| Karnataka 66         | Assam 31                           |
| Maharashtra 65       | Nagaland 28                        |
| Punjab 61            | Uttarakhand 26                     |
| Tamil Nadu 59        | Meghalaya 25                       |
| Telangana 50         |                                    |
| Chhattisgarh 49      |                                    |
| Rajasthan 48         |                                    |
| Goa 44               |                                    |
| Kerala 42            |                                    |
| Odisha 42            |                                    |
| Bihar 38             |                                    |
| Uttar Pradesh 38     |                                    |
| Naryana 38           |                                    |
| Jharkhand 35         |                                    |

Water Index scores vary widely across states, but most states have achieved a score below 50% and could significantly improve their water resource management practices. The Water Index scores for FY

41:07

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## Guest Lectures delivered in various organizations

### Dr. M.V.S.S. Giridhar

#### “Deep Learning in Agricultural Remote Sensing Applications”

- Venue: VNR Vignana Jyothi Institute of Engineering and Technology, Hyderabad
- 26<sup>th</sup> February, 2021

#### “Overview of Guidelines, Planning, Design and O&M of Storm Water Drainage System”

- Venue: ESCI Campus, Hyderabad
- 18<sup>th</sup> February, 2021

#### “Overview of Guidelines, Planning, Design and O&M of Storm Water Drainage System, Practice Sessions & Rain Water Harvesting”

- Venue: ESCI Campus, Hyderabad
- 25<sup>th</sup> February 2021

#### “Utility of Geomatics in Land Use Land Cover Change Detection & Accuracy Analysis”

- Venue: National Institute of Technology Jamshedpur
- 20 - 21 February 2021

#### “Artificial recharge of rain water and use of radioactivity in water resource management”

- Venue: AMD, Begumpet

15<sup>th</sup> March 2021

## Research Papers Published in Journals

- **Dr. M.V.S.S. Giridhar** (2021), “A Brief Review of Recent Developments In The Integration of Deep Learning With GIS”, Geomatics and Environmental Engineering, ISSN 2300-7095.
- **Dr. M.V.S.S. Giridhar** (2021), “Calibration and Uncertainty Analysis of Hussainsagar Watershed using SWAT-CUP, Sufi -2 Approach”, Ecology, Environment and Conservation, ISSN 0971-765X.
- **Dr. C. Sarala** (2021), “Removal of Metals using Cucurbita pepo (Pumpkin) as a Bio-coagulant”, Research Journal of Chemistry and Environment, ISSN 2278-4527.

- **Dr. C. Sarala (2021)**, “100 Percent Removal Efficiency of Metals by Aquatic Plants from Wastewater”, Journal of Emerging Technologies and Innovative Research, ISSN 2349-5162.
- **Dr. C. Sarala (2021)**, “Phytoremediation of Heavy Metal from Polluted Water Using Bacopa Monnieri”, International Journal of Innovative Research in Technology, ISSN 2349-6002.
- **Dr. K. Ramamohan Reddy (2021)**, “An Assessment of the Area of Major Surface Water Bodies in Hyderabad City, India”, International Journal of All Research Education and Scientific Methods (IJARESM), ISSN: 2455-6211.
- **Dr. B. Venkateswara Rao (2021)**, “Evaluation of aquifer characteristics using well logging tools and pumping tests in a typical khondalitic aquifer in the Northern parts of Eastern Ghats of India”, Environmental Earth Sciences, ISSN 1866-6299.
- **Dr. B. Venkateswara Rao (2021)**, “An improved method for quality control of in situ data from Argo floats using convex hulls”, MethodsX, ISSN 2215-0161.
- **Dr. B. Venkateswara Rao (2021)**, “Groundwater flow modeling and prognostics of Kandivalasa river subbasin, Andhra Pradesh, India”, Environment, Development and Sustainability, ISSN 1573-2975.

### **Books Published by the faculty**

**Dr. M.V.S.S. Giridhar**

Advanced Modeling and Innovations in Water Resources Engineering, Springer publication

**M.Tech Water & Environmental Technology 2019 batch topper**



**Mr.M.Sai Kumar**  
**19031D5913**  
**CGPA: 8.17**

### **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

## NSS activities

NSS Coordinator: Dr.M.V.SS.Giridhar,

Activity: Camp for improving living conditions of village, Special village camp

No. of participants: 52

NSS Coordinator: Dr.M.V.SS.Giridhar,

Activity: Red ribbon cub-Youth at Risk of HIV/AIDS

No. of participants: 60



## Memorandum of Understanding

MoU between Jawaharlal Nehru Technological University Hyderabad (JNTUH) and Environment Protection Training and Research Institute (EPTRI)

### **Purpose of MoU:**

- i. Co-operation on Water conservation activities,
- ii. Exchange of information, teaching materials, technological and scientific publications.
- iii. Providing mutual opportunities for faculty members and Researchers to deliver lectures.
- iv. Internships to the students
- v. Cooperation in mutual projects.
- vi. Organization of Lectures, Symposia, Webinars, International Meetings, Conferences, Training Programmes and Workshops.
- vii. Joint Ph D, Thesis, Papers etc.

**Duration:** 5 years

**Date of Implementation of MoU:** 21.05.2021

**Date of Renewal of MoU:** 21.05.2026





తెలంగాణ రాష్ట్రం  
21/5/2021 100

AF 840755

MEMORANDUM OF UNDERSTANDING  
BETWEEN  
JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD  
(JNTUH), HYDERABAD  
and

**ENVIRONMENT PROTECTION TRAINING AND RESEARCH INSTITUTE (EPTRI),  
HYDERABAD  
FOR THE COLLABORATIVE EDUCATION, RESEARCH & TRAINING**

This Memorandum of Understanding signed on ..... between ENVIRONMENT PROTECTION TRAINING AND RESEARCH INSTITUTE, established in 1992 registered under the Societies Registration Act, 1860 and having its registered office at 91/4, Gachibowli, Hyderabad, Telangana 500 032 (herein after known as EPTRI) and JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD, established on 2<sup>nd</sup> October 1972 by the Legislature of the State of Andhra Pradesh as the first-ever Technological University in the country, having its office at Kukatspally, Hyderabad - 500 085, Telangana (herein after known as JNTUH) is intended to facilitate a collaborative program of Education, Research, Training, in the field of Environment and allied subjects between the two institutions.

Whereas,

(A) EPTRI is managed by a Board of Governors, mostly representatives of the Government of Telangana and Government of India. The main objective of EPTRI is to provide training, consultancy, applied research services and advocacy in the areas of environmental protection. EPTRI has core strength of professionals from various fields of science and engineering -

1 | Page



environment, spatial engineering, chemical, physics, Geology, geography, botany, zoology, bio-technology, social sciences, solid waste management and bio-medical waste and management.

(B) JNTUH has been in the forefront during the past forty four years in providing quality technical education of relevance in the State of Andhra Pradesh (in Telangana since 2014). After 37 years of relentless service to the society at Large, JNT University was restructured into four different Universities namely JNT University Hyderabad, JNT University Anantapur, JNT University Kakinada and JNTU by the Government of Andhra Pradesh vide Government Order No. 13, dated 18 August 2008 and the Act of State Legislature No. 30, dated September 2008. From then, this university was re-designated as Jawaharlal Nehru Technological University Hyderabad (JNTUH), Hyderabad.

Whereas, both EPTRI Hyderabad and JNTUH (herein after together referred to as parties) are empowered by their bylaws to enter into cooperative agreement of this nature with other universities / institutes in respect of the subjects related to achieve its goals objectives as stated by their bylaws.

**NOW THEREFORE PARTIES HERETO AGREE AS FOLLOWS:**

To enter into Memorandum of Understanding for a joint collaborative program of Education, Research, Training, in the field of Environment and allied subjects between the two institutions.

**1. PURPOSE**

EPTRI and JNTUH desiring to develop cooperation and collaboration in Education, Research, Training and other agreed activities that further the aims and objectives of both parties mutually agreed as follows:

- i. Co-operation on Water conservation activities
- ii. Exchange of information, teaching materials, technological and scientific publications.
- iii. Providing mutual opportunities for faculty members and Researchers to deliver lectures.
- iv. Internships to the students
- v. Cooperation in mutual projects.
- vi. Organization of Lectures, Symposia, Webinars, International Meetings, Conferences, Training Programmes and Workshops.
- vii. Joint Ph D, Thesis, Papers etc.

**2. IMPLEMENTATION**

- i. All programs or activities implemented under the term of this memorandum of understanding shall be mutually agreed upon in writing, including the necessary budget for the program of activity as the need may arise.
- ii. Both EPTRI and JNTUH shall be fully responsible financially for the activities carried out under its direction or by its staff, except as otherwise agreed by EPTRI and JNTUH

2 | Page

iii. Both EPTRI and JNTUH will designate one officer each who will develop and coordinate specific programs or activities between them.

**3. DURATION AND RENEWAL OF AGREEMENT**

The memorandum of understanding will become effective immediately after signature by the representatives of both EPTRI and JNTUH for a period of FIVE years. The MoU may be subject to renewal on mutual consent of both parties, for the period internally agreed upon.

**4. AMENDMENTS**

- a) This memorandum of understanding may be amended by a written agreement signed by the representatives of both EPTRI and JNTUH.
- b) In the event of any unforeseen incident during collaborative activities both EPTRI and JNTUH agree to negotiate a mutually and acceptable solution.
- c) Should any disagreement arise out of the application, interpretation or implementation of this agreement, the both EPTRI and JNTUH shall endeavor to exercise best efforts to negotiate their differences.

**5. FINANCIAL ARRANGEMENT:**

There will not be any financial commitment between the parties and cost, if any, for exchange of faculty and students shall be borne by the individual or borrowing organization as the case may be.

**6. CONFIDENTIALITY:**

1. Each party recognizes that pursuant to this MoU, if, given access to information that is confidential and /or proprietary to the other party; and agrees to undertake not to use any such confidential, proprietary or restricted information for the own purpose without the prior written consent of the other party.
2. Both the parties shall take all reasonable steps to keep confidential (and ensure that its employees, students, associates and agents also keep them confidential), any subject matter and information or material classified as confidential, whether technical or commercial, acquired formally or informally by either party from the other or their staff or students or by the Researcher(s) concerned in the work done or to be done under this agreement.
3. Neither party shall assign and/or transfer any nor all of its rights, obligation and/or interests arising or claimed under or by virtue of this MoU to a third party without obtaining the prior written consent of the other party.

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4. Both parties agree to subscribe to the principles of equal opportunity and will not discriminate on the basis of gender, age, disability, race, colour, religion, marital status, veteran's status, national or ethnic origin, or sexual orientation.

**7. TERMINATION**

During the validity of this Agreement, each party shall be entitled to terminate the same at any time, without assigning any reason, after giving six months advance notice to the other party. Notwithstanding such termination, each party shall fulfill all obligations accrued under this agreement prior to the time the termination becomes effective.

**8. NOTICES**

All notices and other communications required to be served on JNTUH, Hyderabad under the terms of this MoU, shall be considered to be duly served if the same has been delivered to, left with or posted by registered mail to the party at its last known address of business. Similarly, any notice to be given to the EPTRI shall be considered as duly served if the same has been delivered to, left with or posted by registered mail to the EPTRI at its registered address in Hyderabad.

**9. LAW & JURISDICTION**

This MoU is to develop and promote the student/institutional capacity building/research activities and does not have any legal binding. However, for administrative purposes the parties to this MoU agree to legal jurisdiction of Civil Courts of Hyderabad.

IN WITNESS WHEREOF both the PARTIES hereto have signed this MoU on this day, month and year as mentioned herein below;

In representation of

EPTRI, Hyderabad

JNTUH, Hyderabad

Authorized Signatory  
DIRECTOR  
EPTRI, Hyderabad

Authorized Signatory  
REGISTRAR  
JNTUH  
Hyderabad

Witnesses:

1. *[Signature]*
2. *[Signature]*

1. *[Signature]*
2. *[Signature]*

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Honorable Vice-chancellor Prof.Katta Narashimha Reddy garu welcoming Sri. Adhar Sinha, IAS, visiting labs at EPTRI, exchanging the MoU copies and laying foundation stone for water conservations at EPTRI campus

## **Value Added Courses**

### **Value Added Course-1**

Title: Natural Disaster Management

Duration: 5th August to 26th August 2021

No. of students completed the course: 18

#### **ABOUT VALUE ADDED COURSE**

The main aim of the Value added course, it provides current, relevant, and forward-thinking theory and knowledge, to help ensure that the practitioner's Natural disaster management of future are prepared to better manage the increasing complexity and frequency of natural disaster events. The Value added course focus on learning and skills that extend across the entire system of D&M, including prevention, preparedness, response and recovery, as well as resiliency building, business continuity, disaster risk reduction, climate change adaptation, and crisis communication.

#### **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 Natural Disaster Management**

5<sup>th</sup> August to 26<sup>th</sup> August 2021



**Organized by**

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

#### **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 2<sup>nd</sup> 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.

#### **LIST OF SPEAKERS:**

- 1. Prof. B. Venkateswara Rao**  
Professor (Retd.)  
CWR, IST, JNTUH,  
Hyderabad.
- 2. Dr. K. Ramamohan Reddy**  
Professor,  
CWR, IST, JNTUH  
Hyderabad.
- 3. Dr. C.Sarala**  
Professor,  
CWR, IST, JNTUH,  
Hyderabad.
- 4. Dr. A. Vamsi Krishna Reddy**  
Assistant Professor (c),  
CWR, IST, JNTUH,  
Hyderabad.



## Value Added Course-2

Title: English for Research Paper Writing

Duration: 7 th Jan to 22nd Jan 2022

No. of students completed the course: 07

### ABOUT HOST ORGANIZATION

Jawaharlal Nehru Technological University Hyderabad, situated at Kukatpally, Hyderabad is carved out of Multi-Campus JNTU in the year 2009. JNTU was established on 2<sup>nd</sup> October 1972 and has been divided into 4 different Universities namely JNTU Hyderabad, JNTU Amuntapur, 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.

### Contact:

#### CONVENER

**Dr. A. Uma**

Associate Professor

Centre for Biotechnology

Institute of Science and Technology (IST),

Jawaharlal Nehru Technological University Hyderabad,

Telangana State, India.

### VALUE ADDED COURSE On English for Research Paper Writing

7<sup>th</sup> Jan to 22<sup>nd</sup> Jan 2022



#### Organized by

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

### ABOUT PATENTS & INTELLECTUAL PROPERTY RIGHTS

Intellectual property refers to creations of the mind: inventions; literary and artistic works; and many more. Intellectual property rights are like any other property right. They allow creators, or owners, of patents, trademarks or copyrighted works to benefit from their own work or investment in a creation. These rights provide for the right to benefit from the protection of moral and material interests resulting from authorship of scientific, literary or artistic productions.

Why there is a need to promote and protect intellectual property? There are several compelling reasons. The progress and well-being of humanity rest on its capacity to create and invent new works in the areas of technology and culture. Second, the legal protection of new creations encourages the commitment of additional resources for further innovation. Third, the promotion and protection of intellectual property spurs economic growth, creates new jobs and industries, and enhances the quality and enjoyment of life. An efficient and equitable intellectual property system can help all countries to realize intellectual property's potential as a catalyst for economic development and social and cultural well-being. The intellectual property system helps strike a balance between the interests of innovators and the public interest, providing an environment in which creativity and invention can flourish, for the benefit of all.

A patent is an exclusive right granted for an invention – a product or process that provides a new way of doing something, or that offers a new technical solution to a problem. A patent provides patent owners with protection for their inventions. Patents provide incentives to individuals by recognizing their creativity and offering the possibility of material reward for their marketable inventions. These incentives encourage innovation, which in turn enhances the quality of human life.

### ABOUT THE VALUE ADDED COURSE

Centre for Biotechnology, Institute of Science & Technology, JNTUH is organizing a Value Added Course "English for Research Paper Writing" on 7<sup>th</sup> Jan to 22<sup>nd</sup> Jan 2022. . This Value Added Course aims for a thorough understanding role of English in Research paper writing to publish in peer reviewed journals. And it also explores the improving of research writing skills in PG Students & Research scholars.

### SPEAKERS LIST:

#### Speaker 1: Dr. B.Venkateswara Rao

Professor (Retd.)

CWR, IST, JNTUH, Kukatpally

Hyderabad.

#### Speaker 2: Dr. Archana Giri

Professor

CBT, IST, JNTUH, Kukatpally

Hyderabad.

#### Speaker 3: Dr. T. Vijayalakshmi

Associate Professor

CEN, IST, JNTUH, Kukatpally

Hyderabad.

#### Speaker 4: Dr. Ch. Shilpa Chakra

Asst.Professor

CNST, IST, JNTUH, Kukatpally

Hyderabad.

## Value Added Course-3

Title: Intellectual Property Rights & IP Management For Startups IPR & IP Management For Startups

Duration: 5th Feb to 26th Feb 2022

No. of students completed the course: 07

### ABOUT HOST ORGANIZATION

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### Contact:

#### CONVENER

**Dr. Archana Giri**

Professor

Centre for Biotechnology

Institute of Science and Technology (IST),

Jawaharlal Nehru Technological University Hyderabad,

Telangana State, India.

### VALUE ADDED COURSE On INTELLECTUAL PROPERTY RIGHTS & IP MANAGEMENT FOR STARTUPS

5<sup>th</sup> Feb to 26<sup>th</sup> Feb 2022



#### Organized by

Centre for Biotechnology  
Institute of Science and Technology  
Jawaharlal Nehru Technological University Hyderabad  
Kukatpally, Telangana, INDIA 500085  
Email: [archanagiri@jntuh.co.in](mailto:archanagiri@jntuh.co.in)

### ABOUT PATENTS & INTELLECTUAL PROPERTY RIGHTS

Intellectual property refers to creations of the mind: inventions; literary and artistic works; and many more. Intellectual property rights are like any other property right. They allow creators, or owners, of patents, trademarks or copyrighted works to benefit from their own work or investment in a creation. These rights provide for the right to benefit from the protection of moral and material interests resulting from authorship of scientific, literary or artistic productions.

Why there is a need to promote and protect intellectual property? There are several compelling reasons. The progress and well-being of humanity rest on its capacity to create and invent new works in the areas of technology and culture. Second, the legal protection of new creations encourages the commitment of additional resources for further innovation. Third, the promotion and protection of intellectual property spurs economic growth, creates new jobs and industries, and enhances the quality and enjoyment of life. An efficient and equitable intellectual property system can help all countries to realize intellectual property's potential as a catalyst for economic development and social and cultural well-being. The intellectual property system helps strike a balance between the interests of innovators and the public interest, providing an environment in which creativity and invention can flourish, for the benefit of all.

A patent is an exclusive right granted for an invention – a product or process that provides a new way of doing something, or that offers a new technical solution to a problem. A patent provides patent owners with protection for their inventions. Patents provide incentives to individuals by recognizing their creativity and offering the possibility of material reward for their marketable inventions. These incentives encourage innovation, which in turn enhances the quality of human life.

### ABOUT THE VALUE ADDED COURSE

Centre for Biotechnology, Institute of Science & Technology, JNTUH is organizing a Value Added Course "Intellectual Property Rights & IP Management for Startups" on 5<sup>th</sup> Feb to 26<sup>th</sup> Feb 2022. This Value Added Course aims for a thorough understanding IPR role in the area of Biotechnology, Pharmacy, Chemistry and nanotechnology. It also focuses on IP Management for Startups. It is very essential for startups to understand the IP management system.

### SPEAKERS LIST:

#### Speaker 1: Dr. B. Sunitha Reddy

Associate Professor

CPS, IST, JNTUH, Kukatpally

Hyderabad.

#### Speaker 2: Dr. A. Uma

Associate Professor

CBT, IST, JNTUH, Kukatpally

Hyderabad.

#### Speaker 3: Dr. Ch. Kalyani

Asst.Professor (c)

CBT, IST, JNTUH, Kukatpally

Hyderabad.

#### Speaker 4: Mr. B. Harish

Asst.Professor (c)

CSIT, IST, JNTUH, Kukatpally

Hyderabad.



## Visitors to JNTUH



1. JNTUHCEH, IST, CGWB collaborated Interaction Program on "Aquifer Mapping and Groundwater Management" Date: 20th December 2021, Participants: 70



Coordinator  
Dr.M.V.S.S.Giridhar  
Professor  
Centre for Water Resources,  
JNTUH