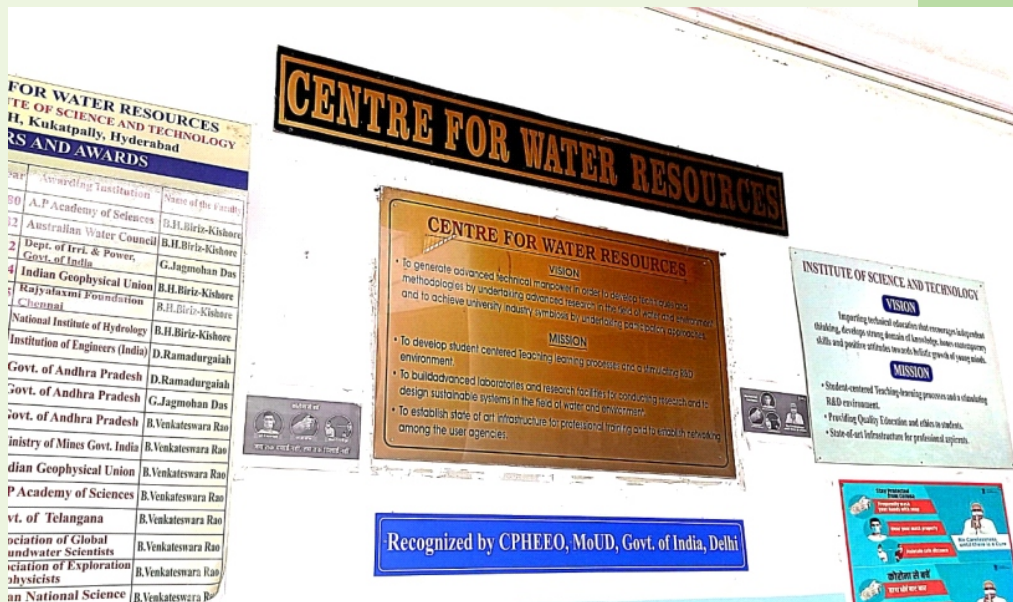




# NEWSLETTER 2019-20

## CENTRE FOR WATER RESOURCES, IST, JNTUH



**Dr. B. Venkateswara Rao**  
Director, Institute of Science and Technology, JNTUH



**Dr. C. Sarala**  
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**  
 4<sup>th</sup> Floor, Bhatnagar Park, Marigold, Hyderabad-500085  
 Phone: +91 11 4308 4903  
 Email: nba@nba.ac.in

**NBA**  
 NATIONAL BOARD OF ACCREDITATION

File No. 11-68-2010-NBA  
 Dated: 29-03-2019

To  
 The Director,  
 JNTUH Institute of Sci. & Tech.(IST),  
 Kukatpally, Hyderabad-500085  
 Telangana

Subject: Accreditation status of programs applied by JNTUH Institute of Sci. & Tech.(IST), Kukatpally, Hyderabad-500085 Telangana.

Sir/Madam,

This has reference to your application I.D. No. 2071-1479/2016 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-500085 Telangana.

2. An Expert Team conducted on-site evaluation of the programs from 26<sup>th</sup>-29<sup>th</sup> October, 2018 and further visit on 08<sup>th</sup> March, 2019. The report submitted by the Expert Team was considered by the concerned Committee 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 Col5 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-500085 Telangana as a whole. As such the Institution should somewhere 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 wherever and whenever it is required to indicate the status of accreditation by NBA.

4. 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 Nandi)  
 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> Floors, B.R.K.R. Bhavan, Tankbund Road, Sullabad, Hyderabad-500003
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:

<p><b>Dr. B.Venkateswara Rao</b> Professor of Water Resources Working since 1989 Specialized in Groundwater Hydrology &amp; Watershed Management</p>	
<p><b>Dr.K.Ramamohan Reddy</b> Professor of Water Resources Working since 2000 Specialized in Surface Water Hydrology and Hydraulics</p>	
<p><b>Dr.C.Sarala</b> Professor of Water Resources Working since 2000 Specialized in Water and Waste Water Treatment Technologies</p>	
<p><b>Dr. M.V.S.S. Giridhar</b> Professor of Water Resources Working since 2006 Specialized in RS &amp; GIS applications, Rainfall-runoff modeling, Rain water harvesting</p>	

### Technical Staff:

1. Smt.Ruckhsana Begum
2. Mrs.M.Umasri
3. Ms.T.Pavani
4. Sri.P.Naresh
5. Smt.K.Chandrakala

### Full Time Research Scholars

Mrs.P.Sowmya	2014-2020
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

Assessment of ground water quality with the effect of implementation of rainwater harvesting structures in the region of fluoride affected areas.

Funded by : Technical Education Quality Improvement Programme Phase-III, Duration: Two years (2018-2020), Amount sanctioned: 02 Lakhs

### Dr. B. Venkateswara Rao

Ground water modeling of Subledu basin.

Funded by : Technical Education Quality Improvement Programme Phase-III, Duration: Two years (2018-2020), Amount sanctioned: 02 Lakhs

## Academic Distinctions/Awards

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

- Award for “ Best Contribution towards conservation of water in individual categories-2019”
- Awarded by Water Management Forum (WMF), The Institution of Engineers (India), Ahemedabad
- Received from Honorable Governor, Telangana State Smt. Dr.Tamilisai Soundarajan on 27<sup>th</sup> December, 2019

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### Dr. B. Venkateswara Rao

- Awarded “Fellow Association of Global Ground Water”
- Awarded by “Association of Global Ground Water Scientists”

## Books published



**Dr. M.V.S.S. Giridhar (2019)**, Proceedings of Sixth National conference on Water, Environment and Society organized by CWR, IST, JNTUH on 5<sup>th</sup> – 7<sup>th</sup> June 2019 Published by BS Publications , ISBN: 978-93-88305-98-3, BS Publications

**Dr.C.Sarala, Dr.B.VenkateswaraRao, Dr.K.Ramamohan Reddy and Dr.M.V.S.S. Giridhar (2019)** Proceedings of Fifth International Conference on Hydrology and Watershed Management on 12<sup>th</sup> – 15<sup>th</sup> February 2019 with a special theme on “Urban water management for sustainable development” Published by BS Publications, 978-93-88305-71-6

### **Conferences/Seminars/Workshops Organized**

1. Sixth National conference on Water, Environment and Society (NCWES)  
**Convener:** Dr. M.V.S.S. Giridhar  
**Dates:** 5<sup>th</sup> – 7<sup>th</sup> June 2019
2. Fifth International Conference on Hydrology and Watershed Management (ICHWAM) with a special theme on “Urban water management for sustainable development”  
**Organizers:** Dr.C.Sarala, Dr.B.VenkateswaraRao, Dr.K.Ramamohan Reddy and Dr.M.V.S.S. Giridhar  
**Dates:** 12<sup>th</sup> – 15<sup>th</sup> February 2019

### **Guest Lectures delivered in various organizations**

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

“Dissemination of Rooftop Rainwater Harvesting Approach in Fluoride Affected Regions Of Nalgonda”

- Delivered in National Conference on Recent Advances in Science & Technology
- Venue: Assam Science and Technology University, Guwahati.
- May 15-17, 2019

“Rainwater Management Through Artificial Recharge for Sustainability of Fluoride Affected Region”

- Environmental Degradation: Key Challenge to Sustainable Development
- Venue: Visvesvaraya Bhavan, Khairatabad, Hyderabad.
- 22-24th November, 2019

“Water Conservation - Challenges and Solutions”

- Session lecture in Symposium
- Venue: Sri Nidhi Institute of Science and Technology Campus
- 25th Sep 2019

“Water Conservation Techniques (RWH)– Case Study of residential building”

- 3 Day Integrated Capacity Building Programme Under MoHUA,GOI -Pradhan Mantri Awas Yojana-Housing for ALL (PMAY-HFA)-Capsule-2 for the Officials of ULBS of Govt. of Tamil Nadu
- Venue: Engineering Staff College of India (ESCI), Hyderabad
- 11<sup>th</sup> October, 2019

“Rainwater Harvesting and Artificial Recharge in view of climate change”

- Workshop on Climate Change and Urbanization: Building Resilience in the Urban Water Sector
- Venue: Dept. of Civil Engineering, College of Engineering (A), Osmania University, Hyderabad
- December 16-17, 2019

### **Research Papers Published in Journals**

- **Giridhar M.V.S.S, M. Ramya and Shyama Mohan (2019)**, “Land use land cover changes using geo-spatial

technologies and their influence on the Eco-system in west zone of Hyderabad”, Journal of Emerging Technologies and Innovative Research (JETIR), ISSN-2349-5162.

- **P. Sowmya, M.V. S. S. Giridhar, M. Prabhakar (2019)**, “Study of Spectral Reflectance Pattern of Red Soils under varying Moisture Conditions”, International Journal for Research in Applied Science & Engineering Technology (IJRASET), ISSN: 2321-9653.
- **Sarala. C, Sawalkar Balaji (2019)**, “Design of Water Treatment Plant for Bhainsa Town”, Journal of Emerging Technologies and Innovative Research, ISSN: 2349-5162.

### **Research Papers Published in Conferences**

- **L. Mani Teja and M.V.S.S Giridhar**, Morphometric Analysis of Kinnerasani Basin, India, National Conference on Water Environment and Society 2019,(NCWES-2019), 05-07 June 2019, ISBN : 978-93-88305-98-3.
- **M. Ramya, M.V.S.S Giridhar and Shyama Mohan**, Land Use Land Cover Analysis of West Zone of Hyderabad Using Remote Sensing and GIS Technologies, National Conference on Water Environment and Society 2019,(NCWES-2019), 05-07 June 2019, ISBN : 978-93-88305-98-3.
- **D. Ajay Kumar, M.V.S.S Giridhar and Shyama Mohan**, “Simulation of Water Distribution System by using GISpipe Software”, National Conference on Water Environment and Society 2019,(NCWES-2019), 05-07 June 2019, ISBN : 978-93-88305-98-3.
- **D. SeetaramaMurty, M. Ramya, M.V.S.S Giridhar and Shyama Mohan**, “WEBGIS Based Land Information System: Case Study of Cheedikada Mandal, Visakhapatnam District Andhra Pradesh”, National Conference on Water Environment and Society 2019, (NCWES-2019), 05-07 June 2019, ISBN: 978-93-88305-98-3.
- **VVS Ramakrishna, M. Ramya, M.V.S.S Giridhar and Shyama Mohan**, “Hydrological Viability Analysis for Effective Utilization of Palli Tank for Irrigation in Anandapuram Mandal, Visakhapatnam District”, National Conference on Water Environment and Society 2019,(NCWES-2019), 05-07 June 2019, ISBN : 978-93-88305-98-3.
- **Padmaja G, Giridhar MVSS, Shiva Chandra V and Akhil G**, “Significance of Public Participation through Crowdsourcing in Planning and Development for a Better Infrastructure”, National Conference on Water Environment and Society 2019,(NCWES-2019), 05-07 June 2019, ISBN : 978-93-88305-98-3.
- **Monica. S and Giridhar. M.V.S.S**, “GIS Based Morphometry Analysis: A Case Study of Vaippar River, Thoothukudi, INDIA”, National Conference on Water Environment and Society 2019, (NCWES-2019), 05-07 June 2019, ISBN : 978-93-88305-98-3.
- **P. Rishitha and M.V.S.S. Giridhar**, “Watershed and Stream Network Delineation using QGIS in Noyyal River Basin, Tamil Nadu, India”, National Conference on Water Environment and Society 2019,(NCWES-2019), 05-07 June 2019, ISBN : 978-93-88305-98-3.
- **Swetha. S and M.V.S.S.Giridhar**, “A Morphometric Analysis of Vellar River Basin of Tamil Nadu using Geospatial Technology”, National Conference on Water Environment and Society 2019,(NCWES-2019), 05-07 June 2019, ISBN : 978-93-88305-98-3.
- **Hemalatha Iand M.V.S.S.Giridhar**, “Morphometric Analysis of Kodayar River Basin using Geospatial Techniques”, National Conference on Water Environment and Society 2019,(NCWES-2019), 05-07 June 2019, ISBN : 978-93-88305-98-3.
- **G. Sreenivasa Rao, B. Sreeja Reddy, P. Srividya and M.V.S.S Giridhar**, “Water Quality Analysis using Ecoclean 2300”, National Conference on Water Environment and Society 2019,(NCWES-2019), 05-07 June 2019, ISBN : 978-93-88305-98-3.
- **S. VenkatCharyulu, G.K. Viswanadh and M.V.S.S Giridhar**, “Impact of Ground Water Due to the Solid and Liquid Dump and Evacuating Physicochemical Parameters in the Leachate”, National Conference on Water Environment and Society 2019,(NCWES-2019), 05-07 June 2019, ISBN : 978-93-88305-98-3.
- **HepsiSwarupa Rani Guduri., and Sarala. C**, “Phytoremediation of Heavy metals from Pragathi Nagae Cheruvu using Aquatic Plants”, 1st National Conference on Recent Advances in Civil Engineering, ISBN: 978-93-8830-599-0.
- **Sri Priya.G., Sarala. C., Harish. B., and Ravi. L**, “Detection of Spatio- Temporal changes in Singareni Coal Fields: Effect of Open Cast Mining”, 1st National Conference on Recent Advances in Civil Engineering, ISBN: 978-93-8830-599-0.

- **HepsiSwarupa Rani Guduri., and Sarala. C.**, “Qualitative Analysis of Cations in Surface Water Samples of Pragathi Nagar Cheruvu, Medchal District, Telangana State, India” 6th National Conference on Water, Environment and Society, ISBN: 978-93-8830-598-3.
- **Borkani Rajesh and C. Sarala**, “Design of Hydraulically Balanced Water Distribution Network” 6th National Conference on Water, Environment and Society, ISBN: 978-93-8830-598-3.
- **Bhutham Santhosha and C. Sarala**, “Spatio-Temporal Drought Analysis using GIS and SPI”, 6th National Conference on Water, Environment and Society, ISBN: 978-93-8830-598-3.

## M.Tech Water & Environmental Technology 2017 batch topper



**Ms.P.R. Sai Ramya**  
**17031D5911**  
**CGPA: 8.82**

## Placements

16031 D 5914

Institute Name: INSTITUTE OF SCIENCE AND TECHNOLOGY, JNTUH

**Aarvee associates**  
 Architects engineers & consultants Pvt. Ltd.  
 No. 102/001/0015 Certified Company

Ref: AA/HRD/HQ/PGTE/19-20/APT/1967  
 Date: 14.06.2019

To,  
 Mr.Sawalkar Balaji,  
 2-1-175,  
 Brahman Gali,  
 Bhainsa, Telangana – 504 103.  
 Mobile No.: 0798996033  
 e-mail: balajisawalkar78@gmail.com

Sub: Offer Letter.

Dear Mr.Sawalkar Balaji,

We are pleased to offer you the position of "Post Graduate Trainee Engineer" in our organisation with the following terms and conditions.

1. You will be under probation for a period of three months from the date of joining and your services can be regularized upon successful completion of the same.
2. You will be required to execute a Service Agreement upon your joining. Details of the "Service Agreement" is herewith enclosed.
3. During the probation period, you will be on a monthly salary of Rs. 27,500/- (Rupees Twenty Seven Thousand Five Hundred only), as mutually agreed during our discussions, which will be subject to deductions for PF contributions, Professional Tax, I.T. etc. This includes all allowances for Accommodation etc.
4. Upon successful completion of the probation period and based on your performance during the period your salary will be fixed upto maximum of Rs. 35,000/- (Rupees Thirty Five Thousand only) per month.
5. In addition to the above, you will be eligible for an Incentive of Rs. 22,500/- based on your performance during the service period and the same will be paid after successful completion of service period of twelve (12) months.
6. You shall keep your salary details strictly confidential.
7. You shall submit the following copies of documents before or at the time of joining.
  - Proof of Date of Birth certificate (Self attested)
  - Qualification certificates (Self attested)
  - Experience Certificates (if any)
  - Two Passport size photographs
  - Copy of PAN and Aadhar card (Self attested)
  - Attached Personal Data Sheet duly filled
  - Bank account details (preferably in SBI or Yes Bank)
8. In the event of any information given in your application/bio-data being found incorrect in any respect, this offer may be held void and liable to be cancelled forthwith besides any other action management may take.
9. In case of any dispute, the courts of Hyderabad alone shall have jurisdiction.
10. The detailed appointment letter will be issued to you, from our office, at the time of joining, on submission of above said documents.
11. You will be joining at our Corporate Office, Hyderabad at the earliest.
12. Please sign the duplicate copy of the offer letter as a token of acceptance and submit us the same within seven working days, failing which this offer letter stands cancelled.

Wishing you all the best,  
 for Aarvee Associates Architects Engineers & Consultants Pvt. Ltd.,

**B.Venkateshwar Reddy**  
 Director

Acceptance  
 I, \_\_\_\_\_ accept this offer and I will be joining on duty on or before \_\_\_\_\_  
 Date: \_\_\_\_\_ Signature: \_\_\_\_\_

Rayula Residency, Srinagar Colony Main Rd., Hyderabad – 500 082, India.  
 Tel: +91-40-23737633, 48483456; Fax: +91-40-23736277; email: aarvee@aarvee.net; web: www.aarvee.com  
 CIN: U74900TG0059FC045491

Student Name: S.Balaji (2016 Batch), Company placed: Aarvee Associates, Salary: 4.2 lakhs per annum

## NSS activities

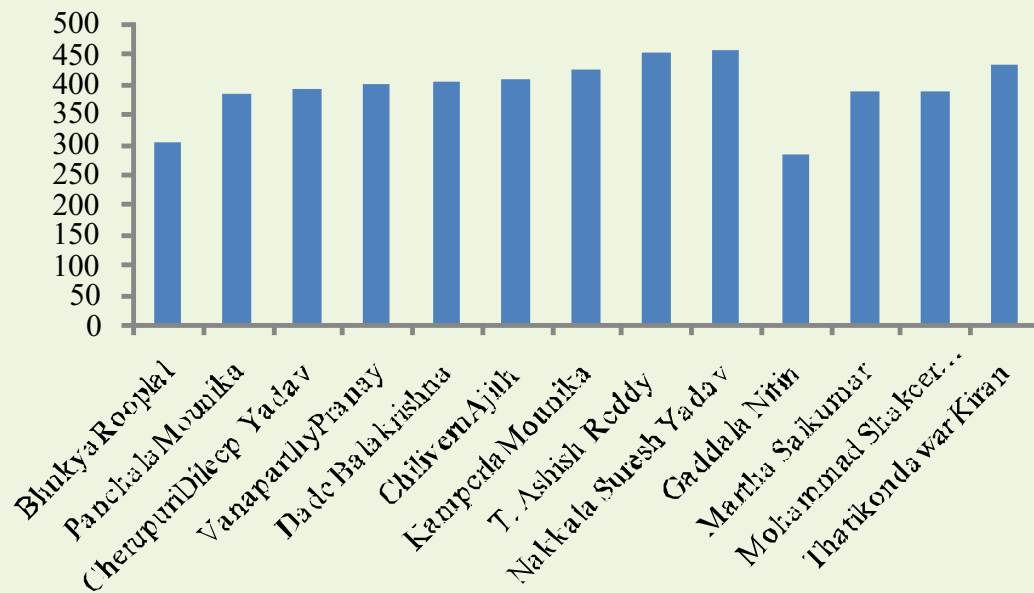
NSS Coordinator: Dr.M.V.SS.Giridhar,

Activity: Equity Action Plan A Two Day Workshop On Sensitization Of Socially Challenged Communities -Higher Education

No. of participants: 100



Equity Action Plan a Two Day Workshop on Sensitization of Socially Challenged Communities -Higher Education



Student name verses GATE score of Admitted students in the year 2019

## Value Added Courses

### Value Added Course-1

Title: GIAN-Crop Water Use Estimation in 21st Century with Advances in Geospatial Technologies

Duration: 22<sup>nd</sup> April to 3<sup>rd</sup> May, 2019.

No. of students completed the course: 27



## GLOBAL INITIATIVE OF ACADEMIC NETWORK (GIAN)

Ministry of Human Resources Development  
Government of India

**COURSE ON**  
**Crop Water Use Estimation in 21<sup>st</sup> Century with**  
**Advances in Geospatial Technologies**  
**22<sup>nd</sup> April – 3<sup>rd</sup> May, 2019**  
**Venue**



**JNTUH College of Engineering, Kukatpally,**  
**Hyderabad**

### About GIAN:

Govt. of India approved a new program titled Global Initiative of Academic Networks (GIAN) in Higher Education aimed at tapping the talent pool of scientists and entrepreneurs, internationally to encourage their engagement with the institutes of Higher Education, viz., all IITs, IIMs, Central Universities, IISc Bangalore, ISERS, NITs and IIITs subsequently cover good State Universities where the spinoff is vast. The GIAN website may be visited for detailed information.

### Overview

Sustainable development of limited water resources is essential for maintaining all aspects of life, preserving environment, and growing economy. Water management techniques are required to optimize the beneficial uses of the available limited water resources to meet human and ecological needs. Critical elements of water management include knowledge of supply and demand along with the spatiotemporal dynamics of the water sources and water demands. Since irrigation accounts for more than 90% of total water withdrawal in India, estimates of agricultural water use are crucial for planning water resource allocation, managing water rights, mitigating droughts, sustaining agricultural production, and quantifying the

impacts of climate change and land use/land cover changes on water resources over space and time.

Local and regional hydrologic processes are impacted by the water lost during evapotranspiration (ET) due to soil-plant-atmosphere interactions. Remotely sensed images are widely used to quantify daily and seasonal ET estimates over large areas in many river basins around the world. Such information helps farmers to improve irrigation efficiency and conserve water.

In recent years, the availability of no-cost satellite images, advances affordability of computing technology, has allowed the development and use of remotely sensed images for water use estimation. It is essential that to make the best use of latest technology and advances in water management. This course is designed to meet this goal of enriching technical expertise of professionals for 21<sup>st</sup> century water management.

### Number of participants is limited to fifty

### Benefits of Attending the Course (Course Objectives):

Candidates who have attended the course will understand the various components of hydrological cycle for water management and familiarize with geospatial technologies in crop water use estimation. Develop the state-of-the-art skill, knowledge and abilities on using geospatial technologies in crop water use for engineers, scientists, and professionals and also help improving the knowledge and understanding of the participants and enabling to visualize from research and future point of view.

### Who should attend:

This course is intended to provide students, teachers, researchers, executives, engineers and researchers from manufacturing, service and government, organizations including NGOs and R&D laboratories.

Students at all levels (BTech/MSc/MTech/PhD) or Faculty from reputed academic institutions and technical institutions are invited to attend.

For the participation in the course, registration with GIAN is mandatory.

Registration to the portal is one-time affair and will be valid for the lifetime of GIAN. Once registered in the portal, an applicant will be able to apply for any number of GIAN courses as and when necessary. One-time Non-refundable fee of Rs. 500/- is to be charged for this service. For registration, the website is: [www.gian.iitkgp.ac.in/GREGN/index](http://www.gian.iitkgp.ac.in/GREGN/index)

### Course Fee:

The participation fees for taking the course is as follows:

**Participants from abroad (US dollars): \$500**

**Industry/ Research Organizations : Rs. 7000/-**

**Academic Institutions : Rs. 5000/-**

**Full time Students : Rs. 2000/-**

**Full time SC/ST students : Rs. 1000/-**

There will be a concession of 50% of the fee for the faculty working in the constituent and affiliated colleges of JNTUH. The above fee includes all instructional materials, computer use for tutorials and assignments, laboratory equipment usage charges, 24 hours free internet facility, Tea, Snacks, Lunch.

### Evaluation and Grading

There will be evaluation at the end of each module on the understanding of the concepts by the participant made during the course. Based on the evaluations finally a letter grade will be awarded to the participant. A completion certificate shall also be issued.

### The Faculty



**Dr. Ramesh Kumar Singh** has 23 years of scientific research and management experience that includes last 9 years at the USGS EROS Center. Dr. Singh has the teaching, research, and scientific project management experience needed to successfully conduct cutting edge research in the field of Remote Sensing (RS) and Geographical

Information Systems (GIS) applications in water resources assessment, development, and management. Dr. Singh obtained his B. Tech. in Agricultural Engineering from Dr. Rajendra Prasad Central Agricultural University, Pusa, M. Tech. in Water Resources Development and Management from IIT, Kharagpur, and PhD in Biological Systems Engineering from University of Nebraska-Lincoln, USA. Dr. Singh uses his experience building and leading numerous research teams that produced innovative results and successful project outcomes to deliver quality work for the EROS scientific environment on time and within budget. He used Landsat data to quantify seasonal water consumption and produced first ever water use map of Colorado River Basin at Landsat scale. Those fundamental concepts continue to inform his work, particularly his leadership on the WaterSMART project.

Dr. Singh played a key role in establishing Hydrologic Lab at University of Nebraska-Lincoln for evapotranspiration modeling using geospatial techniques and worked towards utilization of this approach for water management by the Department of Natural Resources for their operational and policy making decisions. While working at the Indian Institute of Remote Sensing under Indian Space Research Organization, he supervised and managed 35 trainees for their project reports and dissertations. Also, he had a leadership role in Indian Society of Remote Sensing. Dr. Singh has more than 80 publications to his credit with research papers in peer reviewed international journals and conference proceedings. He is an acclaimed researcher in the field of remote sensing and GIS Applications in water resources and is highly cited in peer reviewed journals. His Google Scholar h-Index is 16 with 1640 citations and is in the top 20 researchers in the field of evapotranspiration modeling. He is on review panel of many journals such as Journal of Hydrology, Water Resources Research, Remote Sensing of Environment, International Journal of Remote Sensing, ASCE Journal of Irrigation and Drainage Engineering, Remote Sensing, Irrigation Science, Journal of American Water Resources Association etc.



**Dr. M.V.S.S Girdhar** is working as Associate Professor in Centre for water resources, Institute of Science and Technology, JNT University, Hyderabad (JNTUH). He Graduated in Civil engineering from Nagarjuna University (1993) and did his M.Tech (Water Resources Development and Management) from Indian institute of Technology (IIT), Kharagpur (1995). He obtained his Ph.D in Civil Engineering from Jawaharlal Nehru Technological University Hyderabad in 2007. He is an academician having 20 years of teaching, research and administrative experience. He was coordinator for the World Bank funded project TEQIP- II (Technical Education Quality Improvement Programme Phase II-IST, JNTUH) and for TEQIP-III. He was also coordinator for the Centre for Earth Atmospheric Weather Modification Technology CEAWMT, IST, JNTUH. He also worked as Additional Controller of Examinations of the university from 2010 to 2014. Dr. Girdhar has participated in more than 50 Conferences at national and international level on themes related to his subject expertise to share his views in the field of water resources. With the funds received from the Central Ground Water Board, MoWR, AICTE, he constructed 24 recharge bore wells in the University campus and every year more than 10.0 crore liters of rainwater is being harvested and recharged into the aquifers after proper filtration. Dr. Girdhar has published 130 research papers in various National/International Journals/conferences. He guided one Ph.D student and also guided 32 M.Tech dissertations. He has organized several national and international conferences and workshops. He published three international proceedings and six national proceeding as an editor, nine training programs in the area of Geospatial applications for water resources and environmental engineering. He is a Member of institution of Engineers and a member of various reputed professional bodies.

### About the JNTUH:

The J.N.T University was in existence since 1972. It is a teaching and research oriented university consisting of 4 constituent engineering colleges JNTUH College of Engineering, Hyderabad (JNTUHCEH), JNTUH College of Engineering, Jagtiala (JNTUHCEJ), JNTUH College of Engineering, Manthani (JNTUHCEM), JNTUH College of Engineering, Sulthanpur (JNTUHCES) and more than 400 affiliated colleges. In addition to the constituent colleges, the other units of JNTUH are School of Information Technology (SIT), Institute of Science and Technology (IST), School of Management Studies (SMS) and Academic Staff College (ASC). The university has numerous collaborative, teaching and research programs with universities from abroad and within India and with industries in the state of Telangana. The university offers engineering programs at both UG and PG level and many science and humanities programs at PG level. In addition, university also offers Ph. D. in engineering, science and humanities disciplines.

### GIAN Contact Information

#### Course Coordinator

**Dr. M.V.S.S Girdhar**,  
Associate Professor, Centre for Water Resources,  
Institute of Science and Technology  
Jawaharlal Nehru Technological University  
Hyderabad  
Kukatpally- HYDERABAD-500085  
e-mail: [mvssgirdhar@gmail.com](mailto:mvssgirdhar@gmail.com)

#### Local Coordinator

**Dr. G. Krishna Mohana Rao**  
Professor of Mechanical Engineering & JNTUH  
College of Engineering  
e-mail: [kmrgurram@jntuh.ac.in](mailto:kmrgurram@jntuh.ac.in)

## Value Added Course-2

Title: Emerging Trends in Patents & IPR

Duration: 1st July to 22nd July 2019.

No. of students completed the course: 11

**Contact Address:**

**COORDINATOR**

**Dr. M.V.S.S Girdhar**

**Professor**

Centre for Water Resources

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

**VALUE ADDED COURSE  
on  
EMERGING TRENDS IN PATENTS & IPR**

1<sup>st</sup> July to 22<sup>nd</sup> July 2019



**Organized by**

**Centre for Water Resources  
Institute of Science and Technology  
Jawaharlal Nehru Technological University Hyderabad  
Kukatpally, Telangana, INDIA 500085  
Email: [prchanagirini@yahoo.co.in](mailto:prchanagirini@yahoo.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 HOST ORGANIZATION**

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**ABOUT THE VALUE ADDED COURSE**

Centre for Water Resources, Institute of Science & Technology, JNTUH is organizing a Value Added Course "Emerging Trends in Patents and IPR & Future Implications" on 1<sup>st</sup> July to 22<sup>nd</sup> July 2019. This Value Added Course aims for a thorough understanding of patenting of our research work in the area of Biotechnology, Pharmacy, Chemistry and nanotechnology. It also focuses on emerging trends in intellectual property rights.

**SPEAKERS LIST:**

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

Associate Professor  
CPS, IST, JNTUH, Kukatpally  
Hyderabad.

**Speaker 2: Dr. Shilpa Chakra**

Asst.Professor & Head  
CNST, IST, JNTUH, Kukatpally  
Hyderabad.

**Speaker 3: Dr Suresh Babu Bastipati**

Asst.Professor (c)  
CBT, IST, JNTUH, Kukatpally  
Hyderabad.

**Speaker 4: Dr. P. Ranjit**

Asst.Professor (c)  
CBT, IST, JNTUH, Kukatpally  
Hyderabad.

## Value Added Course-3

Title: English in Scientific Writing & Publishing

Duration: 4<sup>th</sup> to 25<sup>th</sup> January, 2020

No. of students completed the course: 11

**Value Added Course on  
“English in Scientific  
Writing &  
Publishing”**



**4<sup>th</sup> to 25<sup>th</sup> January, 2020**

**Organized By**

**Centre for Nano science &  
Technology  
Institute of Science & Technology  
Jawaharlal Nehru Technological  
University Hyderabad  
Kukatpally, Hyderabad- 500085.**

**Website: [www.jntuh.ac.in](http://www.jntuh.ac.in)  
[www.jntuhist.ac.in](http://www.jntuhist.ac.in)**

**Venue**

**New IST Seminar Hall  
Jawaharlal Nehru Technological  
University Hyderabad  
Kukatpally, Hyderabad.**

**CONVENER**

**Dr. Ch. Shilpa Chakra**  
**Assistant Professor**  
*Centre for Nanoscience & Technology  
Institute of Science and Technology (IST),  
Jawaharlal Nehru Technological University  
Hyderabad, Telangana State.*

**LIST OF SPEAKERS**

**Dr. Jayasree**  
**Professor**  
**Centre for Chemical Sciences &  
Technology  
JNTU, Hyderabad.**

**Dr. Ch. Sasikala**  
**Professor**  
**Centre for Environment  
JNTUH, Hyderabad.**

**Dr. Archana Giri**  
**Associate Professor**  
**Centre for Biotechnology  
JNTUH, Hyderabad.**

**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.

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**ABOUT THE VALUE ADDED COURSE:**

Centre for Nano science & Technology, Institute of Science & Technology, JNTUH is organizing a Value Added Course on “English in Scientific Writing & Publishing” during **4<sup>th</sup> to 25<sup>th</sup> January, 2020**. The main aim of the Value Added Course is to provide a platform to the students, researchers in academics, and research institutions, how to present their research work in peer reviewed journals and the English impact in research and scientific papers. Researchers want to publish their Scientific/Research articles in high impact journals, the role of English is very important. The Value Added Course majorly focus and explain elaborately towards to the above said points.

**VALUE ADDED COURSE DATES:**

**4-01-2020 (Saturday)**  
**11-01-2020 (Saturday)**  
**18-01-2020 (Saturday)**  
**25-01-2020 (Saturday)**

**Value Added Course-4**

Title: Emerging Trends in Patents & IPR  
Duration: 1st February to 22nd February 2020.  
No. of students completed the course: 11

**Contact Address:**

**CONVENER**

**Dr. Archana Giri**  
**Associate Professor & BOS**  
**Chair person**

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

**VALUE ADDED COURSE**  
**on**  
**EMERGING TRENDS IN PATENTS & IPR**

**1<sup>st</sup> Feb to 22<sup>nd</sup> Feb 2020**



**Organized by**

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

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**ABOUT HOST ORGANIZATION**

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**ABOUT THE VALUE ADDED COURSE**

Centre for Biotechnology, Institute of Science & Technology, JNTUH is organizing a Value Added Course "Emerging Trends in Patents and IPR & Future Implications" on 1<sup>st</sup> Feb to 22<sup>nd</sup> Feb 2020. This Value Added Course aims for a thorough understanding of patenting of our research work in the area of Biotechnology, Pharmacy, Chemistry and nanotechnology. It also focuses on emerging trends in intellectual property rights.

**SPEAKERS LSIT:**

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

Associate Professor  
CPS, IST, JNTUH, Kukatpally  
Hyderabad.

**Speaker 2: Dr. Shilpa Chakra**

Asst.Professor & Head  
CNST, IST, JNTUH, Kukatpally  
Hyderabad.

**Speaker 3: Dr Suresh Babu Bastipati**

Asst.Professor (c)  
CBT, IST, JNTUH, Kukatpally  
Hyderabad.

**Speaker 4: Dr. P. Ranjit**

Asst.Professor (c)  
CBT, IST, JNTUH, Kukatpally  
Hyderabad.

**Value Added Course-5**

Title: Natural Disaster Management

Duration: 5<sup>th</sup> to 26<sup>th</sup> September, 2020.



No. of students completed the course: 10

**ABOUT VALUE ADDED COURSE**

The main aim of the 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 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.

**CONVENER**  
**Dr. L. Saida**  
 Assistant Professor  
 Centre for Biotechnology  
 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> Sep to 26<sup>th</sup> Sep 2020

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

**ABOUT HOST ORGANIZATION**

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**LIST OF SPEAKERS:**

- Prof. B. Venkateswara Rao**  
 Professor (Retd.)  
 CWR, IST, JNTUH,  
 Hyderabad.
- Dr. K. Ramamohan Reddy**  
 Professor,  
 CWR, IST, JNTUH  
 Hyderabad.
- Dr. T. Vijaylakshmi**  
 Associate Professor,  
 CEN, IST, JNTUH,  
 Hyderabad.
- Dr. A. Vamsi Krishna Reddy**  
 Assistant Professor (c),  
 CEN, IST, JNTUH,  
 Hyderabad.

**Training Program attended by the faculty**

**Dr.M.V.SS.Giridhar**

A CEP course titled "Deep learning for remote sensing image analysis" at Indian Institute of Bombay (IIT Bombay), Maharashtra from 31-Oct-2019 to 4-Nov-2019

**Conferences conducted by the faculty**

**Dr.M.V.SS.Giridhar**

Three day National Conference on Water, Environment and Society, on 5th-7th June – 2019 at Seminar Hall, Ground Floor, Institute of Science and Technology, Jawaharlal Nehru Technological University Hyderabad Kukatpally, Hyderabad

**జేఎన్టీయూలో సదస్సు**

కేపీహెచ్బీ కాలనీ, జూన్ 2: జేఎన్టీయూహెచ్ వర్సిటీ నీటి వనరుల విభాగం ఆధ్వర్యంలో ఐదో నేషనల్ కాన్ఫరెన్స్ ఆన్ వాటర్, ఎన్విరాన్మెంట్ అండ్ సొసైటీ (ఎన్సీడబ్ల్యూఈఎస్) 2018 అనే అంశంపై మూడురోజుల జాతీయ సదస్సును నిర్వహించడం జరుగుతుందని ప్రోగ్రామ్ కోఆర్డినేటర్, నీటి వనరుల విభాగం అధిపతి ఎన్వీఎస్ఎస్ గిరిధర్ తెలిపారు. వర్సిటీలోని ఐఎస్టీ భవనం సెమినార్ హాల్ లో ఈనెల 4వ తేదీ ఉదయం 10గంటలకు జాతీయ సదస్సు ప్రారంభమవుతుందన్నారు.

Sun, 03 June 2018  
 epaper.ntnews.com/c/2



News on 03<sup>rd</sup> June 2018 in Namasthe Telangana news paper Kukatpally zone about the National conference

**ఆంధ్రజ్యోతి** ప్రారంభం • మంగళవారం 5 జూన్ 2018 **21**

**నీటి వనరులను కాపాడుకోవాలి**

జేఎన్టీయూ లో జరిగిన జాతీయ సదస్సు



జేఎన్టీయూ, జూన్ 4 (ఆంధ్రజ్యోతి): నీటి వనరుల కాపాడకోవాలి అనే అంశంపై ఐదో నేషనల్ కాన్ఫరెన్స్ ఆన్ వాటర్, ఎన్విరాన్మెంట్ అండ్ సొసైటీ (ఎన్సీడబ్ల్యూఈఎస్) 2018 అనే అంశంపై మూడురోజుల జాతీయ సదస్సును నిర్వహించడం జరుగుతుందని ప్రోగ్రామ్ కోఆర్డినేటర్, నీటి వనరుల విభాగం అధిపతి ఎన్వీఎస్ఎస్ గిరిధర్ తెలిపారు. వర్సిటీలోని ఐఎస్టీ భవనం సెమినార్ హాల్ లో ఈనెల 4వ తేదీ ఉదయం 10గంటలకు జాతీయ సదస్సు ప్రారంభమవుతుందన్నారు.

ఆంధ్రజ్యోతి, 05 June 2018  
 epaper.andhrajyothy.com/c/29265139

News on 05<sup>th</sup> June 2018 in Andhra Jyothi news paper Kukatpally zone about the National conference



## Visitors to JNTUH



1. Training programme on "Virtualization and Cloud Computing"  
Date: 11.02.2019  
20 Participants from various states of India

2. Training programme on "Developing trends in Water Supply System"  
Date: 21st - 22nd February, 2019  
30 Participants from HMWSSB

3. Training programme Date: 07th - 08th of March 2019  
38 Participants from Dy. General Managers (E) & Managers (E) HMWSSB

4. Training programme on "Design of Rainwater Harvesting for Residential Welfare Associations"  
Date: 4<sup>th</sup> July, 2019  
45 Participants

5. Shri. Rakesh Kumar Tiwari, ITS, Director of Department of Agriculture, Corporation and Farmer's Welfare, Govt of India along with GHMC members has visited the Rainwater Harvesting Structures in Jawaharlal Nehru Technological University Hyderabad.



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



6. Training programme Date: 8 - 27 July, 2019  
33 Participants of different disciplines from government degree colleges

7. Training programme Date: 26.07.2019  
30 IES Newly Recruited Group 'A' Officers (Probationers) of Military Engineering Service Participants



8. Training programme on "Rainwater Harvesting" Date: 27-30 August, 2019  
25 Participants of different disciplines

9. International Training programme on " Good governance for management of rural development programmes" Date: 3rd September to 30 th September 2019  
26 foreign visitors from 18 different countries



10. International Training programme Date: 18.09.2019,  
23 Foreign visitors to Floating floriculture visit at Rangadhamam cheruvu (IDL lake or Swan lake)



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



11. International training programme in "Natural Resource Management for Sustainable Rural Development during 3rd September to 30th September 2019 23 foreign visitors at JNTUH RWH structures, JNTUH

12. International training programme in "Natural Resource Management for Sustainable Rural Development during 3rd September to 30th September 2019 23 foreign visitors at Swan lake



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

