

**INSTITUTE OF SCIENCE & TECHNOLOGY**  
**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD**  
 Kukatpally, Hyderabad – 500 085, Telangana State (India)

**ANNUAL REPORT 2015-2016**

**1. Name of the College/Dept/School/Centre : Institute of Science and Technology**

**2. Address : JNTUH, Kukatpally, Hyderabad**  
 (with contact number/fax, and E-mail id)

**3. Year of Establishment : 1989**

**4. Name of the Principal : Prof. A. Jaya Shree**  
 (with qualification)

**5a. List of Regular Teaching Staff :**

Name, Qualification& Designation	Specialization	Total Teaching experience
<b>Centre for Biotechnology</b>		
Dr. M. LAKSHMI NARASU , Ph.D, Professor	Animal Cell Culture, Cancer biology, Microbial Enzymes and Molecular Biology	30
Dr. Archana Giri, Ph.D , Asst. Prof	Plant Biotechnology and Genetic Engineering	20
Dr. A.Uma, Ph.D Head of the department	Biofuels, Enzymology and Bioprocess Engineering	20
Dr. L. Saida, Ph.D, Asst. Prof	Down Stream Processing, Enzyme optimization techniques	10
<b>Centre for Chemical Sciences and Technology</b>		
<b>Prof.A. Jaya Shreere, M.Sc,Ph.D</b> Director IST	(Organic chemistry)	25 Years
<b>Centre for Environment</b>		
<b>1. Dr. T. Vijayalakshmi, Ph.D. Asst. Prof. &amp; HEAD, CEN, IST, JNTUH.</b>	Natural Resource Management Geomatics,	16 years
<b>2. Dr. M. Anji Reddy, M. Tech, Ph.D. Prof. &amp; Director, R&amp;D, JNTUH</b>	Environmental Impact Assessment studies for major industries,	22 years
<b>3. Dr. Ch. Sasikala, Ph.D. Prof. &amp; BOS chairperson, CEN, IST, JNTUH.</b>	Bacterial diversity, Metabolomics, Bioprospecting for probiotics,	20 years

4. Dr. V. Himabindu, Ph.D. assoc. Prof. & Coordinator CAEO, CEN, IST, JNTUH.	Pollution monitoring and control technologies,	18 years
<b>Centre for Nano Science and Technology</b>		
<b>Dr. K. Venkateswara Rao,</b> M.Sc., M.Tech., PhD Associate Professor of Nanotechnology	<b>Nanomaterials for Energy Application and Sensors</b>	<b>18 Yrs</b>
<b>Ms. CH. Shilpa Chakra</b> B.Tech., M.Tech. (PhD) HOD & Assistant Professor of Nanotechnology	<b>Nanomaterials for Biomedical Applications</b>	<b>6 Yrs</b>
<b>Centre for pharmaceutical Sciences</b>		
Dr. Gottumukkala Krishna Mohan M.Pharm, Ph.D, Professor & OIE	Pharmacognosy	27 yrs
Dr. M. Sunitha Reddy, Ph.D, FPGEE, NABP, RPh (USA) HOD & Assistant Professor	Pharmaceutics	25 yrs
Dr. M. Ajitha, Ph.D Associate Professor & BOS Chairperson	Pharmaceutical chemistry	16 years
Dr. S.Shobha Rani, Ph.D Assistant Professor & ACE - I	Pharmaceutical chemistry	13 years
<b>Centre for Spatial Information Technology</b>		
Dr. K. RamamohanReddy , Ph.D, Professor	Surface Hydrology & Water resources Modeling	31 years
Dr. M. VISWANADHAM , Ph.D, Professor	Civil Engineering	33 years
J. Venkatesh, M.Tech,(Ph D), Assoc.Prof	RS & GIS	13 years
Dr. K. Manjula Vani , Ph.D, Professor	Civil Engineering & GIS	27 years
<b>Centre for Water Resources</b>		
<b>Dr.M.V.S.S.Giridhar,</b> M.Tech, MBA , Ph.D Associate Prof & Head, CWR, IST , JNTUH	R.S and GIS Application to water Resources, Rainwater harvesting, fresh water ecosystems and sustainable storm water management.	19 years
<b>Prof.B.Venkateswara Rao,</b> M.Sc Tech, Ph.D Professor, CWR , IST, JNTUH	Geo Hydrology and Hydro Geophysics	29 years
<b>Prof.C.Sarala,</b> M.Tech , Ph.D Professor, CWR , IST, JNTUH	Water and Waste Water treatment Technology	19 years

**b. List of Permanent Non Teaching Staff**

Name	Qualification	Designation	Total experience
Director's office			
L. Lalitha Devi	BA	Assistant Registrar	
D. Shiva Shanker	BA	Senior assistant	
K.Vasanth kumar		Office subordinate	
V.K. Ramulu		Office subordinate	
L. Prabhakar		Office subordinate	
Centre for Spatial Information Technology			
T. Jaya babu	M.Tech (Ph.D)	Technical Assistant	
Centre for Biotechnology			
P.Venkatesh	9 <sup>th</sup> Class	Lab Attender	23

**6. Total number of programs conducted by the College/University during the academic year 2015-16:**

Workshops	Refresher Courses	Orientation Courses	Seminars	FDP	Conferences		Total
					National/International		
Centre for Biotechnology							
01	NIL	NIL	NIL	NIL	NIL	NIL	01
Centre for Chemical Sciences and Technology							
1	NIL	NIL	NIL	NIL	NIL	1	02
Centre for Environment							
NIL	NIL	NIL	NIL	NIL	2	NIL	02
Centre for Nano Science and Technology							
NIL	NIL	NIL	NIL	1	NIL	NIL	01
Centre for Pharmaceutical Sciences							
NIL	5	NIL	NIL	NIL	2	NIL	07
Centre for Spatial Information Technology							
03	NIL	NIL	05	NIL	NIL	NIL	08
Centre for Water Resources							
01	0	Nil	01	NIL	01	NIL	03
Centre for earth, Atmosphere and weather modification Technology							
01	Nil	Nil	Nil	Nil	Nil	Nil	01

**7. Details of the Seminars/ Conferences/ Workshops/ Refresher Courses/ Orientation Courses/ FDP's conducted during the academic year 2015-16**

Nature of programme conduct: conference/workshop	Title of the Programme	Date of conduct	No. of participants	Sponsored body/institute
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etc..				
<b>Centre for Biotechnology</b>				
Workshop	Fermentative Production of ethanol from sweet sorghum juice	16 <sup>th</sup> -18 <sup>th</sup> March 2016	30	Indo-US JCERDC Project
<b>Centre for Chemical Sciences and Technology</b>				
workshop	stepping in To advanced flow reactors	25-26 Feb 2015	200	TEQIP-II
International conference	Trends setting innovations in chemical sciences & Technology applications in pharma industry	16-18 Dec 2016	350	TEQIP-II
<b>Centre for Environment</b>				
Workshop (Dr. T. Vijaya Lakshmi)	One day work shop on geospatial technologies for recourse management	July 2015	150	NRDMS-NSDI, DST/ JNTUH
Workshop (Dr. T. Vijaya Lakshmi)	GIS day	21 November 2015	150	TEQIP-II/ JNTUH
<b>Centre for Nano Science and Technology</b>				
FDP	Synthesis and Characterization of Nanomaterials	14-03-2016	50	TEQIP-II
<b>Centre for Pharmaceutical Sciences</b>				
Conference	Challenges and Opportunities of Pharmaceutical Research in Education and Industry	11/03/2016	800	TSCHE
Refreshing course	Formulation Development of ano particles- Application to Pharma Industry	17/08/2015	44	UGC
Refreshing course	Acquiring and improving skills of	22/06/2015	30	UGC

	drug designing to achieve the goals of pharmaceutical Research			
Refreshing course	In Silico Drug discovery and structure-based drug design in pharmaceutical chemistry	02/11/2015	30	UGC
<b>Centre for Spatial Information Technology</b>				
Workshop	Personality Development and Soft Skills	21-03-2015	60	TEQIP-II
Workshop	Recent Trends in Geoinformatics	24to 27-03-2015	100	TEQIP-II
Workshop	Remote Sensing Applications	31-03 2015	90	TEQIP-II
<b>Centre for Water Resources</b>				
National Workshop <b>Dr. B.Venkateswara Rao</b>	Groundwater Modelling	March 16-20, 2015	35	TEQIP- II , IST, JNTUH
National Seminar <b>Dr. B.Venkateswara Rao</b>	A commemoration meeting was organized on Prof. U.Aswathanarayana, a renowned water resources specialist on the occasion of World Water Day- 2016	March 22 <sup>nd</sup> World Water Day- 2016	50	TEQIP- II , IST, JNTUH
National conference <b>Dr. M.V.S.S.Giridhar</b>	National conference on Water, Environment & Society	30th – 31st July 2015	150	TEQIP- II , IST, JNTUH

**8. Details of the Seminars/ Conferences/ Workshops/ Refresher Courses/ Orientation Courses/ FDP's attended during the academic year 2015-16**

Nature of programme attended: conference/workshop etc..	Title of the Programme	Date of conduct	Sponsored body/institute	Certificate availability
<b>Centre for Biotechnology</b>				
Training	Academic Leadership Programme	23-28 Nov 2015	TEQIP	Yes
Training	Management Capacity Enhancement Programme	16-22 Nov 2015	TEQIP	Yes
Training	Quality Assurance through Outcome Based Accreditation	18 <sup>th</sup> -20 <sup>th</sup> March 2016	TEQIP	Yes
<b>Centre for Chemical Sciences and Technology</b>				
NIL	NIL	NIL	NIL	NIL
<b>Centre for Environment</b>				
Workshop	Panel member, round table on water resource management	2015	organized by WWF and US consulate	YES
Workshop (Dr. T. Vijaya Lakshmi)	Chairperson for the National Seminar on Challenges in Implementing Geo Information Technology Solutions	17-18 <sup>th</sup> November, 2015	Centre for Economic and Social Studies	YES
Workshop (Dr. Ch. Sasikala)	Recent trends in Microbial Biotechnology	26-28 February, 2015.	At Osmania University	YES
Workshop (Dr. Ch. Sasikala)	Tackling Antibiotic resistance	15-10-2015.	Hotel Prk Hyatt, Hyderabad	YES
workshop	Mitigating Agrarian distress in Indian Agriculture	15-10-2015.	Centre for Good Governance, Hyderabad	YES
Workshop (Dr. T. Vijaya)	Inspiring Change: Impact	18-2-2016.	Research Councils	YES

Lakshmi)	of UK-India research partnership		UK India in partnership with British Deputy High Commission Hyderabad	
Training (Dr. T. Vijaya Lakshmi)	UK India Educational Leadership Program on Further Academic Leadership	2 week , series of four workshops between Jan 2015- March 2016.	AICTE, GoI.	YES
Workshop (Dr. T. Vijaya Lakshmi)	TWAS Science Diplomacy workshop on Sustainable Water Management	One Week 30 <sup>th</sup> Nov-4 <sup>th</sup> Dec 2015	The World Academy of Sciences, ITALY	YES
Workshop (Dr. Ch. Sasikala)	Editors Roundtable, 2016	9-3-2016.	M/S Taylor and Francis, at Hyderabad,	YES
Workshop (Dr. T. Vijaya Lakshmi)	Building Excellence in Professional Higher Education Institutions	June-10-12 <sup>th</sup> , 2015	Indian school of business	YES
<b>Centre for Nano Science and Technology</b>				
FDP	International Winter School and Hands-on Training Programme on Nano-biotechniques	09-02-2016	TEQIP-II	FDP
International conference	International Conference on Recent Advances in Emerging Technologies	23-02-2016	TEQIP-II	International conference
Symposium	National symposium for material research scholars, IIT-Bombay	20.05.2015	TEQIP-II	Symposium
<b>Centre for Pharmaceutical Sciences</b>				
NIL				
<b>Centre for Spatial Information Technology</b>				
2nd National Conference	Water, Environment and Society	30 <sup>th</sup> July and 31 <sup>st</sup> July 2015.	TEQIP-II	Yes

Training programme	Orientation Course on RS and GIS for Operators &Technicians”	23 March – 03 April, 2015		Yes
<b>Centre for Water Resources</b>				
International Conference <b>Dr.B.Venkateswara Rao</b>	42 <sup>nd</sup> International Association of Hydrogeologists congress AQUA – 2015, Rome, Italy	Sept. 13-18, 2015	TEQIP-II, IST , JNTUH	YES
International Conference <b>Dr.B.Venkateswara Rao</b>	International Ground Water Conference (AGGS), SRM University, , Chennai.	Feb 11 – 13, 2016	TEQIP-II, IST , JNTUH	YES
National Conference <b>Dr.B.Venkateswara Rao</b>	National conference on Water , Environment and Society (NCWES- 2015)	30th – 31st July 2015	JNTUH TEQIP-II, IST , JNTUH NABARD, ,	YES
Conference <b>Dr.M.V.S.S. Giridhar</b>	5 <sup>th</sup> international Conference on Agriculture , Environment and Biological sciences (ICAEBS- 2016 Pattaya , Thailand	23 <sup>rd</sup> to 28 <sup>th</sup> April - 2016	TEQIP-II, IST , JNTUH	YES
National level training <b>Dr. M.V.S.S. Giridhar</b>	Managerial effectiveness enhancement programme (MEEP)	19-23 Jan 2015	TEQIP-II, IST , JNTUH	Yes
National level Work shop <b>Dr. M.V.S.S. Giridhar</b>	Stepping into advances flow reactors	25-26 February 2015	TEQIP-II, IST , JNTUH	Yes
National Work shop <b>Dr. M.V.S.S. Giridhar</b>	Urban flood management: technology driven solutions	20-21 November 2015	TEQIP-II, IST , JNTUH	Yes
National level workshop <b>Dr. M.V.S.S. Giridhar</b>	Management capacity enhancement programs	12-16 <sup>th</sup> October 2015	TEQIP-II, IST , JNTUH	Yes



## 9. Details of Research Publications (during Academic Year 2015-2016)

S.No	List of Authors	Title of the Paper	Journal Name	National/International	Year of Publication	ISBN/ ISSN/ Impact Factor
<b>Centre for Biotechnology</b>						
01	Pavani, Addepalli, Shaik Mohammad Naushad, Balraj Alex Stanley, Renganathan Gnanambal Kamakshi, Krishnan Abinaya, Malempati Amaresh Rao, <b>Addepally Uma</b>	Mechanistic insights into the effect of CYP2C9* 2 and CYP2C9* 3 variants on the 7-hydroxylation of warfarin."	<i>Pharmacogenomics</i>	International	2015	
02	Goluguri, Baby Rani, Chiranjeevi Thulluri, <b>Uma Addepally</b>	"Novel alkali-thermostable xylanase from <i>Thielaviopsis basicola</i> (MTCC 1467): Purification and kinetic characterization	<i>International journal of biological macromolecules</i>	International	2016	
03	<b>Uma Addepally</b> and Chiranjeevi Thulluri	Recent progress in production of fuel range liquid hydrocarbons from biomass-derived furanics via strategic catalytic routes	<i>Fuel</i> (Accepted In-press)	International	2015	
04	Venkateshwarlu Gurrum, Ramesh Garlapati, Chiranjeevi Thulluri, Kumara Swamy Kasani, Pavan Kumar Machiraju,	Design, synthesis and biological evaluation of quinazoline derivatives as $\alpha$ -glucosidase inhibitors.	<i>Medicinal Chemistry Research</i>	International	2015	

	<b>Uma Adepally,</b>					
05	Santanu Hati, Sanjay M. Madurkar, Chandramohan Bathula, Chiranjeevi Thulluri, Rahul Agarwal, Faiza Amber Siddiqui, Poonam Dangi, <b>Uma Adepally</b>	<i>Design, synthesis and biological evaluation of small molecules as potent <math>\alpha</math>-glycosidase inhibitors</i>	<i>European journal of medicinal chemistry</i>	International	2015	
06	Vinutha KS, Srinivas Rao P*, Anil Kumar GS, T Chiranjeevi, <b>A Uma</b>	<i>Sorghum - a multi-purpose bioenergy crop</i>	<b>Accepted-in-press</b>	International	2015	
07	Chandramohan Bathula, Rajanikanth Mamidala, Chiranjeevi Thulluri, Rahul Agarwal,, Kunal Kumar Jha, Parthapratim Munshi, <b>Uma Adepally,</b>	Substituted furopyridinediones as novel inhibitors of $\alpha$ -glucosidase	<b>RSC ADVANCES Accepted-in-press</b>	International	2015	
08	Nithyananda Sastry, D., T. Prabhakar, and M. Lakshmi Narasu	Studies on preparation of Bio-Paints using fungal bio-colors	<i>Pigment &amp; Resin Technology</i>	International	2016	
09	Kankanala, Kavitha, V. Ranga Reddy, Yumnam Priyadarshini Devi, Lakshmi Narasu Mangamoori	Nonsteroidal Anti-inflammatory Drug-based N-Allylidene Benzohydrazides and 1-Acyl-2-pyrazolines: Their Synthesis as Potential	<i>Journal of Heterocyclic Chemistry</i>	International	2015	

		Cytotoxic Agents In Vitro.				
10	Kanumuri, Radha Madhavi, Chitra Bajji, Rajesh R. Tummuru, Venkat RR Arva Tatireddigari, Lakshmi Narasu Mangamoori	Increased yield of high purity recombinant human brain natriuretic peptide by acid hydrolysis of short fusion partner in Escherichia coli	<i>Protein expression and purification</i>	International	2015	
11	K.Visala, Lavudi Saida, Y.Geetharam	Process Performance Qualification (Stage-2) of Alendronate Sodium and Cholecalciferol Tablets 70mg/5600IU”	International Journal of Innovative Pharmaceutical Sciences	International	2015	
12	Mahesh Yanamandra, Sayan Mitra & Archana Giri	Development and application of PI3K assays for novel drug discovery Expert Opin	Drug Discov	International	2015	
13	Anjaneyulu M, M. Jayarama Prakash Rao and Archana Giri	Isolation of potential antimicrobial compounds from Salacia oblonga Wall and their synergistic effect on human pathogen, to Medicinal Chemistry Research.	Medicinal Chemistry Research	International	2015	
14	Gayathri Bathoju, Kiranmayee Rao and Archana Giri	Production of saponins (stigmasterol and hecogenin) from genetically transformed hairy root cultures of Chlorophytum borivilianum	Medicinal Chemistry Research	International	2015	
15	Anjaneyulu	Isolation of	Journal of	International	2015	Impact factor-

	Musini, Jayaram prakash Rao, Archana Giri	potential antimicrobial compounds from <i>Salacia oblonga</i> Wall and their synergistic effect on human pathogens.	Microbiology, Biotechnology and Food science			0.9
16	Anjaneyulu Musini, Jayaram prakash Rao and Archana Giri	Free radical scavenging and antiproliferative activity by the phytochemicals of <i>Salacia oblonga</i> Wall.	Journal of physiology and molecular biology of plants.	International	2015	Impact factor-0.6
17	Anjaneyulu Musini, Suryakala Gandhi and Archana Giri	HPLC Polyphenolics profile and H <sub>2</sub> O <sub>2</sub> induced cytoprotective effect of <i>Salacia oblonga</i> extracts on human lymphocytes	Advances in biological chemistry	International	2016	Impact factor-0.7
<b>Centre for Chemical Sciences and Technology</b>						
1	B. Lakshmi Sushma, G. Madhusudhan , A. Jaya Shree, P. Srinivasulu, Y. Koti Reddy	Development and validation of stability indicating UPLC method for the quantitative determination of related substances in moxifloxacin hydrochloride	<i>Journal of Pharmacy Research</i>	National	2015	9(4),211-216
2	Polkam Naveen, Yennam Satyanarayana, P. Yogeewari, Ramesh Ummanni and <b>Jayashree Anireddy</b>	Synthesis and biological evaluation of New 5-(2,5-dimethoxyphenyl)-1,3,4-Thiadiazole-2-amino derivatives as potent anti mycobacterial and anticancer agents,	<i>Bioorganic &amp; Medicinal Chemistry Letters</i>	National	2015	25, 2015,1398-1402
3	B. Hariram, R. Suresh Kumar, Anireddy Jaya Shree, Dama Venugopala Rao, L. Kalyanarama n, Katkam Srinivas,	Development of an Ultra-High Performance Method on Superficially Porous Stationary Phase for the Determination of Related Substances in Pitavastatin Calcium by HPLC: Science	<i>Chromatographia,</i>	National	2015	DOI 10.1007/s10337-015-2922-y

		and Risk-Based Approach for QC Test Method				
4	B.Lakshmi Sushma, G. Madhusudhan, A. Jaya Shree, P. Srinivasulu, Y. Koti Reddy	Development and validation of stability indicating UPLC method for the quantitative determination of related substances in moxifloxacin hydrochloride	<i>Journal of Pharmacy Research</i>	National	2015	2015,9(4),211-216
5	Shivaprasad Kasturi, Raj Kumar V, Srinivas Uppalanchi, <b>Jayashree A</b> , Hasitha shilpa Anantaraju, Perumal Yogeewari, Dharmarajan Sriram, Krishna S Ethraj,	Synthesis of novel morpholine tagged 4,6-diheteroalkylsubstituted s-Triazine derivatives and their cytotoxic activity	<i>Bioorganic &amp; Medicinal Chemistry Letters</i> ,	National	2015	
6	srinivas B. Hariram, R. Suresh kumar, <b>Anireddy Jaya Shree</b> , Dama Venugopala Rao, L Kalyanaraman and Katkam	Development of simple, selective and highly robust UHPLC method for Pitavastatin calcium using superficially porous stationary phase, science and risk based approach: Application to quality control study	<i>Journal of Pharmaceutical and Biomedical Analysis(JPBA)</i> ,	National	2015	
7	N. Jagadeesh, Y. Ravindra kumar, Sandeep mohonty, Talasilas, <b>A. Jayashree</b> ,	Analytical Characterization of two new potential impurities of Diltiazem	<i>Journal of Pharmaceutical and Biomedical Analysis(JPBA)</i> ,	National	2015	
8	,Soumen Ghosh, Jyoti Mareddy, <b>A. Jayashree</b> , Sarbani Pal, and Alok K. Mukherjee	Structural study of three nimesulidetriazole derivatives using X-ray powder diffraction: effect of substitution on supramolecular assembly	<i>CrystEngComm</i> ,	National	2015	DOI 10.1039/C4CE01650E

9	A.V. Hanumantha Rao, P. N. Kishore Babu, V. Lakshman Rao and <b>A. Jaya Shree,</b>	PEG-600 Mediated phase transfer catalyst free <i>N</i> -alkylations of 2-butyl-5-chloro-1 <i>H</i> -imidazole-4-carbaldehyde	<i>Asian Journal of Chemistry</i>	National	2015	Vol 27(5), <b>2015</b>
10	S. Veeraswamy, R. Venkat Ragavan, Y. Narasimha Reddy, Satyanarayan a Yennam, <b>A. Jayashree</b>	Facile and short synthesis of ( $\pm$ ) 1-hydroxy indolizidine and ( $\pm$ ) coniceine from picolinic acid ethyl ester via cross claisen condensation	<i>Asian Journal of Chemistry</i>	National	2015	27(5) 1667-1670, <b>2015</b>
11	P. Ravi Kumar, Manoranjan Behera, C. Balakrishna, B. Murali, Abinash B. Choudhary, <b>A. Jaya Shree,</b> & Satyanarayan a Yennam,	Synthesis of Odoratine and its derivatives by Suzuki coupling reaction as the key step.	<i>Letters in Organic Chemistry</i>	National	2015	27(5)1667-1670,
12	Rakeshwar Bandichhor, A Raghupathi Reddy, B. Yakambram, <u>srinivasulu k,</u> <b>A. Jaya shree,</b>	Comproportionation based Cu(I) catalyzed [3+2] cycloaddition of nitriles and sodium azide,	<i>Chemistry and Biology Interface</i>	National	2015	5, 1, 23-34 , 2015,
13	Tejeswara Rao Allaka, Naveen Polkam, Kalyani Chepuri, Sudha Sravanti K, Narahari Sastry Garikapati, Ramesh Ummanni and <b>Jayashree Anireddy</b>	Synthesis, biological activity evaluation and molecular modeling studies of novel pefloxacin derivatives-the potential cytotoxic antibacterials	<i>Letters in drug design &amp; discovery</i>	National	2015	
<b>Centre for Environment</b>						
1	M. Azmatunni sa, K. Rahul, Ch. Sasikala, & Ch.V.	<i>Lysinibacillus xyleni</i> sp. nov., isolated from a bottle of xylene	Arch. Microbiol. (In press) DOI: 10.1007/s00203	International	2016	

	Ramana		-016-1194-8			
2	Sasikala, Ch, Sravanthi T., Tushar L. & Ramana, Ch.V.	<i>Alkalispirochaeta cellulovorans</i> gen. nov., sp. nov., a novel cellulose hydrolyzing, alkaliphilic, halotolerant bacterium isolated from the gut of wood eating cockroach ( <i>Cryptocercus</i> ) and reclassification of four <i>Spirochaeta</i> sp.	Int. J. Syst. Evol. Microbiol doi: 10.1099/ijsem.0.000865.	International	2016	(IF 2.8)
3	Divyasree, B., Lakshmi, K.V.N.S., Bharti Dave., Sasikala, Ch. & Ramana, Ch.V.	<i>Rhodovulum aestuarii</i> sp. nov., isolated from a brackish water body	Int. J. Syst. Evol. Microbiol. 66, 165-171 doi: 10.1099/ijsem.0.000691	International	2016	(IF 2.8)
4	Vishnuvardhan Reddy Sultanpura m; Thirumala Mothe; Sasikala Chinthalapati; Venkata Ramana Chinthalapati	<i>Pelagirhabdus alkalitolerans</i> gen. nov. sp. nov., a novel alkali and thermo tolerant bacterium isolated from Pingaleshwar beach, India and reclassification of <i>Amphibacillus fermentum</i> as <i>Pelagirhabdus</i>	Int. J. Syst. Evol. Microbiol.66, 84-90doi: 10.1099/ijsem.0.000678	International	2016	(IF 2.8)

		<i>fermentum</i> comb. nov.				
5	Vishnuvardhan Reddy Sultanpura m; Thirumala Mothe; Sasikala Chinthalapati; Venkata Ramana Chinthalapati	<i>Cellulosimicrobium aquatile</i> sp. nov., isolated from Panagal reservoir, Nalgonda, India	Antonie van Leeuwenhoek 108:1357-1364  DOI 10.1007/s10482-015-0588-y	International	2015	
6	Ramaprasad E.V.V.; Sasikala Ch; Ramana Ch.V.	<i>Zooshikella marina</i> sp. nov. isolated from beach sand	Int. J. Syst. Evol. Microbiol. 65: 4669-4673  doi: 10.1099/ijsem.0.000630	International	2015	(IF 2.8)
7	Ramaprasad E.V.V.; Sasikala Ch.; Ramana Ch.V.,	<i>Ornithinimicrobium algicola</i> sp. nov., a marine actinobacterium isolated from the green alga <i>Ulva</i> sp.	Int. J. Syst. Evol. Microbiol. 65 :4627-31  doi: 10.1099/ijsem.0.000624.	International	2015	(IF 2.8)
8	Sravanthi T., Tushar L., Sasikala, Ch. & Ramana, Ch.V.	<i>Spirochaeta odontotermis</i> sp. nov., a novel obligately anaerobic cellulolytic haloalkaliphilic spirochaete isolated from the termite, <i>Odontotermes obesus</i>	Int. J. Syst. Evol. Microbiol. 65:4589-94  (doi: 10.1099/ijsem.0.000616.)	International	2015	(IF 2.8)



9	Parag, B. Sasikala, Ch. and *Ramana, Ch. V.	<i>Bacillus endolithicus</i> sp. nov., isolated from pebbles	Int. J. Syst. Evol. Microbiol. 65: 4568-4573  (in press, doi: 10.1099/ijsem.0.000612.)	International	2015	(IF 2.8)
10	Sultanpura m Vishnuvardhan Reddy; Mothe Thirumala; Chintalapati Sasikala; Chintalapati Venkata Ramana	<i>Salibacterium halotolerans</i> gen. nov. sp. nov., a novel bacterium isolated from a salt pan and reclassification of <i>Bacillus qingdaonensis</i> as <i>Salibacterium qingdaonense</i> comb. nov.	Int. J. Syst. Evol. Microbiol. 65: 4270-4275  doi: 10.1099/ijsem.0.000572.	International	2015	(IF 2.8)
11	Lakshmi, K.V.N.S., Divyasree, B., Sucharita, K., Sasikala, Ch. & Ramana, Ch.V.	<i>Thiorhodococcus fuscus</i> sp. nov., isolated from a lagoon	Int. J. Syst. Evol. Microbiol. 65: 3938-3943  doi: 10.1099/ijsem.0.000517	International	2015	(IF 2.8)
12	Ramaprasad E.V.V.; Sasikala Ch; Ramana Ch.V.	<i>Roseomonas oryzae</i> sp. nov., isolated from paddy rhizosphere soil	Int. J. Syst. Evol. Microbiol. 65: 3535-3540  (in press doi: 10.1099/ijsem.0.000449., )	International	2016	(IF 2.8)
13	Ranjith Kumavath, Ch. Sasikala, Ch. V Ramana	Isolation and Characterization of L-Tryptophan Ammonia Lyase from <i>Rubrivivax benzoatilyticus</i>	<a href="#">Curr Protein Pept Sci.</a> 16:775-81.	International	2015	

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16	Divyasree, B., Lakshmi, K.V.N.S., Bharti Dave., Sasikala, Ch. and Ramana, Ch.V.	<i>Caenispirillum deserti</i> sp. nov., a spheroplast forming bacterium isolated from a salt desert (Rann) of Kutch	Int. J. Syst. Evol. Microbiol. 65:3119-24.	International	2015	(IF 2.8)
17	Parag, B., Sasikala, Ch., & Ramana, Ch.V.	<i>Barrientosiimonas endolithica</i> sp. nov., isolated from pebbles; Reclassification of the only species of the genus <i>Tamlicoccus</i> , <i>Tamlicoccus marinus</i> (Lee, 2013) as <i>Barrientosiimonas marinum</i> comb. nov. and	Int. J. Syst. Evol. Microbiol. 65:3031-6.	International	2015	(IF 2.8)

		emended description of the genus <i>Barrientosiionas</i>				
18	Shivani, H, Subash, Y., Bharti, P. Dave., Sasikala, Ch & Ramana, Ch.V.	<i>Bacillus crescens</i> sp. nov. isolated from a soil	Int. J. Syst. Evol. Microbiol. 65:2531-6.	International	2015	(IF 2.8)
19	K. Rahul., M. Azmatunni sa., Ch. Sasikala and Ch. V. Ramana	<i>Hoeflea olei</i> sp. nov., a diesel-oil degrading aerobic anoxygenic phototrophic bacterium isolated from backwaters and emended description of the genus <i>Hoeflea</i>	Int. J. Syst. Evol. Microbiol. 65:2403-9.	International	2015	(IF 2.8)
20	Azmatunni sa, M., Rahul, K, Lakshmi, K.V.N.S., Sasikala, Ch. and Ramana, Ch.V <sup>2</sup>	<i>Lysinibacillus acetophenoni</i> sp. nov., a solvent tolerant bacterium isolated from acetophenone	Int. J. Syst. Evol. Microbiol. 65:1741-8	International	2015	(IF 2.8)
21	Tushar, Sasi Jyothsna, Sasikala, Ch and Ramana, Ch.V	Draft Genome Sequence of an Antimicrobial-Producing <i>Clostridium</i> sp. JC272, Isolated from Marine Sediment"	Genome Announc. 2015 3(3): e00650-15. . doi: 10.1128/genomeA.00650-15	International	2015	
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	Sasikala; Ch, Ramana	systemic responses of <i>Rubrivivax benzoatilyticus</i> JA2 to aniline stress	14: 711-727.  doi: 10.1021/pr500725b.			
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39	Dr. S. Shobha Rani	Stability indicating rp-hplc method for estimation of agomelatine in tablet dosage form.	2015	International journal of pharmacy and biological sciences-	Int	Impact factor-0.888
40	Dr. S. Shobha Rani	Development and validation of rp-hplc method for estimation of atemoxetine hydrochloride in tablet dosage form	2015	International journal of pharmacy and biological sciences-	Int	Impact factor-0.888
41	Dr. S. Shobha Rani	Morus albal., a new perspective: scanning electron microscopic, microchemical, gc-ms & uplc-ms characterization.	2015	International journal of research in pharmacy and chemistry.	Int	Impact factor-0.510
42	Dr. S. Shobha Rani	Liquid chromatography –electrospray ionization-tandem mass spectrometric method for the simultaneous quantitation of escitalopram and etizolam in human.	2015	International journal of pharmaceutical analysis.	Int	Impact factor-0.72
43	Dr. S. Shobha Rani	Formulation of viburnum erubescens root asava and its physico-	2015	Pelagia research library der pharmacia sinica	Nat	Impact factor-1

		chemical standardization.				
44	Dr. S. Shobha Rani	Lc-ms/ms assay for the determination of lurasidone and its active metabolite, id-14283 in human plasma and its application to a clinical pharmacokinetic study.	2015	Biomedical chromatography	Int	Impact factor-1.72
45	Dr. S. Shobha Rani	lc-ms/ms method development and validation of montelukast in human plasma and its clinical application.	2015	American journal of pharmatech research.	Int	Impact factor-0.9832
46	Dr. S. Shobha Rani	Lc-ms/ms assay for irbesartan in human plasma using solid phase extraction technique: a pharmacokinetic study.	2015	International journal of pharmacy and pharmaceutical sciences	Int	Impact factor-0.68.
47	Dr. S. Shobha Rani	In silico model simulation docking of tyrosine kinase inhibiting leukemia quinazolines.	June 2015	Online journal of bioinformatics volume	Int	Impact factor-1.80
48	Dr. S. Shobha Rani	“preparation and physico-chemical standardization of viburnum punctatum arista	2015	International journal of pharmacy and pharmaceutical analysis	Int	Impact factor-0.55
49	Dr. S. Shobha Rani	review on quinazoline deirivatives.	2015	journal of global trends in pharmaceutical sciences	Nat	Impact factor-1.35
50	Dr. S. Shobha Rani	Synthesis, charecterisation and anti microbial	April-june 2015	Journal of chemical and pharmaceutical sciences	Nat	Impact factor-0.684

		activity of 1-[2-substituted hydrazine carbothioamido] - 4-benzyl piperazines.				
<b>Centre for Spatial Information Technology</b>						
01	Dr.K Ramamohan Reddy	“Continuous Contour Trenches – A useful Conservation Measure for Groundwater Recharge”.	International Journal of Scientific Research,	International	2015	
02	Satyanarayana S.V., Ramamohan Reddy K. and Natiq Joodi.,”.	Pharmaceutical waste water treatment using hydrogen peroxide oxidation method	International Journal of Applied Research,	International.	2015	
03	Hemalatha D <sup>*1</sup> , Dr. ManjulaVani K <sup>1</sup> , Ramesh M <sup>1</sup> and Asra M <sup>1</sup>	Development of an Automatic Algorithm for Extraction of Waterlogged Areas using Geospatial Techniques.” 2nd National Conference on Water, Environment and Society		National	2015	
04	Ramesh M <sup>*1</sup> , Dr. ManjulaVani K <sup>1</sup> , Hemalatha D <sup>1</sup> and Asra M <sup>1</sup>	Evaluation of NDWI and MNDWI for Intra-Annual and Inter Annual assessment of Waterlogged Areas using Satellite Data - A case Study.” 2nd		National	2015	

		National Conference on Water, Environment and Society				
05	Jaya Babu T <sup>*1</sup> , Dr. Kesava Rao P <sup>2</sup> , Dr. Manjula Vani K <sup>1</sup> , Dr. Madhava Rao V <sup>2</sup> & Phanindra Kumar T <sup>2</sup>	“Watershed Planning and Impact Assessment – using Satellite Data” 2nd National Conference on Water, Environment and Society		National	2015	
06	G. Srinivasa Rao <sup>*1</sup> , Dr. Manjula Vani. K <sup>2</sup> and Dr. D. Srinivasa Sarma <sup>3</sup>	Reuse of PET Waste from Coastal Area in High Performance Concrete – Case Study on Goa Coast,		National	2015	
07	Mahbooba Asra <sup>1</sup> , Dr. Manjula Vani K <sup>1</sup> and Ramesh M, <sup>1</sup>	Satellite based Assessment of Soil & Water Characteristics		National	2015	
08	K. Sashikiran Babu <sup>*1</sup> and Dr. Manjula Vani. K, <sup>2</sup>	Evaluation of damping for safety and stability of Gravity dams by Finite Element Analysis.”		National	2015	
09	Sudarshan, Dr Manjulavani, Dr V Bhikshma,	Strength Characteristics of HDPE Concrete		International	2015	
10	Prof. K. Manjula Vani. <sup>a</sup> , K. Sashikiran Babu <sup>b</sup>	Evaluation of Hydrodynamic Pressure in Arch Dams under Earthquakes		International	2016	
11	J. Venkatesh	Geoprocessing Desktop Application for		National		Impact Factor:



		INCOIS Web Services				0.923
<b>Centre for Water Resources</b>						
1	<b>Venkateswara Rao, B.,</b> Srinivasa Rao G. and Mahesh Kumar.,	Hydrogeochemical Investigations and Solute Transport Modeling of Polluted Coastal Aquifer	J. Ind. Geophys. Union Vol.20, No.1, pp.63-74	National	2016	ISSN NO:0971-9709
2	<b>Venkateswara Rao, B.,</b> Kavitha, Ch., Murthy, N.N., and Lakshminarayana, P.,	Heavy metal contamination of groundwater in Nacharam Industrial Area	J. Ind. Geophys. Union, Vol.20, No.2, pp.27-34	National	2016	ISSN NO:0971-9709
3	Sirisha, P., Remya, P. G., Balakrishnan Nair, T, M., and <b>Venkateswara Rao, B.,</b>	Numerical simulation and observations of very severe cyclone generated surface wave fields in the north Indian Ocean	J. Earth. Syst. Sci.	International	2016	Impact factor: 0.695
4	Ramana Rao N V, Anirudh Ramaraju, <b>Giridhar M V S S</b> and Viswanadh G K.	<b>“Spatial analysis of surface water quality in and around GHMC using GIS”</b> International Conference on Geology., J Geol Geosci 2015 Volume 4 Issue 3 ISSN: 2329-6755, JGG an open access journal June 22-23, 2015 Florida, USA	J Geol Geosci 2015 Volume 4		2015	ISSN: 2329-6755
5	Ramaraju Anirudh and <b>Giridhar M.V.S.S.</b>	Spatial analysis of surface water quality using GIS”			2015	
6	Ch.Ramesh	Un-Supervised	International		2015	ISSN: 2321-

	Naidu, M.V.S.S Girdhar	Classification of Rice Crop using IRS LISS III Satellite Images for Wazirabad Command Area	Journal Of Engineering Development And Research 2016 IJEDR   Volume 4, Issue 2			9939,pp1568-1571.
7	Deepthi, P., Sarala, C., Mukkanti, K.	Application of Low Cost Plant Based Coagulants in Water Treatment	Environmental Geochemistry, Vol.19, No.1&2, pp. 7-9,		2016	ISSN 0972-0383
8	Hanumantha Rao V., Baleeshwar Reddy A., Vasudeva Rao V., Sarala, C.,	Endemic and Threatened Plants of Lambapur-Peddagattu-Proposed Uranium Mining Area, Nalgonda, Telangana, India”,	International Research Journal of Environment Sciences, Vol. 5(12),Dec 2016, pp 40-46.	International Journal	2016	E-ISSN 2319-1414.

#### 10. Books published as single author or as editor

S.No	Authors Name	Title of the Book	Year of Publication	ISBN/ ISSN
<b>Centre for biotechnology</b>				
NIL				
<b>Centre for chemical sciences and technology</b>				
NIL				
<b>Centre for environment</b>				
NIL				
<b>Centre for Nano Science and technology</b>				
1	Sara Shaker Ch. Shilpa Chakra	Study of Adsorption levels of congo red using magnetite nanoparticles	2016	978-3-659-87164-1
2.	T. Dayakar, K. Venkateswara Rao, C.H. Shilpa Chakra	Nano Composite:Synthesis, Characterization and Gas Sensor Application	2016	978-3-659-87557-1
3	Ganapathi Rao K, K. Venkateswara	Self-cleaning application of nanoporous materials	2016	978-3-659-13446-3

	Rao, CH. Ashok			
4	R Narmadha, CH Ashok, CH. Shilpa Chakra	Hydrothermal synthesis of Cu nanoparticles:Antibacterial Application	2016	978-3-659-80573-8
<b>Centre for Pharmaceutical Sciences</b>				
NIL				
<b>Centre for Spatial Information Technology</b>				
05	Dr. R.S. Dwivedi	Geo spatial technology for Integrated Natural resources Management	2016	9789380381480
<b>Centre for Water Resources</b>				
	Dr.M.V.S.S. Giridhar	National conference Water environment and society	2016	978-98-5230-124-9

### 11. Details of Patent/ Ongoing Projects / Consultancies (during Academic Year 2015-2016):

Title/ Description	Principal investigator	Duration/time period	Sponsoring Organization	Funding Amount	Remarks
<b>Centre for Biotechnology</b>					
Commercialization of sweet sorghum as a complimentary feed stock for ethanol production in the sugar mills of Maharashtra , Tamil Nadu and Gujarat	Dr. A.Uma	3 years	DBT	5,25,000	Ongoing
Production of high value recombinant protein adiponectin in plant cell culture a biopharming initiative	Dr. Archana Giri	3 years	UGC	9,22,500	Ongoing
Consortium for development of Sustainable Advanced Lignocellulosic Biofuel Systems.	Dr. A.Uma	5 years	INDO-US Joint Clean Energy Research And Development Center	88,68,000	Ongoing
Development of sorghum genotypes suitable for	Dr. A.Uma	3 years	DBT	14.28 Lakhs	Ongoing

lignocellulosic biofuel production through marker-assisted gene pyramiding of brown midrib genes					
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### Patents:

1. "Design of Effective dosage of Holocellulolytic enzymes for the hydrolysis of pre-treated biomass to fermentable sugars and their fermentation to ethanol". (Filed, File no. 5550/CHE/2013).
2. "Sequential fractionation of Rice straw into hemicellulose, lignin, silica and cellulose, and an efficient saccharification of cellulose for fermentable sugar (Glucose) production". (Applied for filing 2014).
3. "An efficient conversion of cellulose and hemicelluloses fraction into furan-based platform chemical feed stack" (Applied for filing 2014)
4. "Preparation of eco- benign particle wood adhesive using tailored lignin prepared from lignin rich sources" (Applied for filing 2014).

### CENTRE FOR CHEMICAL SCIENCES AND TECHNOLOGY

Design, Synthesis and Biological Evaluation of small molecule antimitotic agents with DNAS Damaging Properties"	Dr.Sadanandam Palle	2014-17 3years	<b>DST-SERB</b>	31.5 lakhs	On going
Synthesis of heterocyclic compounds mediated by Pd/C catalyst and evaluation of their biological activity"	Prof. A. Jayashree	2015-17	TEQIP-IIIC Project:	7.5 lakhs	On going
Design and Synthesis of Anti-mitotic agents and their Derivatives	Prof. A. Jayashree	2015-17	<b>TEQIP-R&amp;D Project</b>	7.5 lakhs	On going

### Patents:

1. A Practical Synthesis of 1, 1'-Diethylferrocene, Braja sundar Pradhan, Naresh Vempala, S.Venkateshwar Rao, C.Prabhakar and **A. Jaya Shree applied** through **National Research Development Council (NRDC)** on 28-1-2015

2.A Practical Synthesis of 1, 2, 4- Butanetriol, Braja sundar Pradhan, Naresh Vempala, **A. Jaya Shree** and V. Venkatesan **applied** through **National Research Development Council (NRDC)** on 28-1-2015

3.A Practical Synthesis of 5,5'-Bistetrazole-1,1'-diol and its salts, Braja sundar Pradhan, Naresh Vempala, **A. Jaya Shree** and V. Venkateswara Rao **applied** through **National Research Development Council (NRDC)** on 28-1-2015

**CENTRE FOR ENVIRONMENT**

Marine anaerobic bacterial diversity for the production of antimicrobials	Dr. Ch Sasikala	3 years (18-7-2013 to 17-7-2016)	MoES	40,000,00/-	Ongoing
Ecology of Halo-Anoxygenic phototrophic bacteria of marine habitats of Gujarat	Dr. Ch Sasikala	3 years (2014-2017)	MoES	40,45,500/-	Ongoing
Departmental improvement activities	Dr. V. Himabindu	2011-2016	DST-FIST	61 Lakhs	Ongoing
Hydrogen production through biological routes	Dr. V. Himabindu & Dr. Lakshmi narasu	2010-2016	MNRE-Mission project	49,68,000/-	Ongoing
Development of PEM, AEM and Alkaline water electrolyzers for Hydrogen production	Dr. V. Himabindu	2014-2017	BARC	33,95,000/-	Ongoing
Biodiesel production from lipid-producing microalgae using industrial CO <sub>2</sub> emissions and sewage sponsored by DST	Dr. V. Himabindu	2015-2017	DST- NPCS	19,14,000/-	Ongoing
Geospatial Technologies for Village Information System.	Dr. T. Vijayalakshmi	2015-2017	NRDMS-DST	26,20,000/-	Ongoing
Capacity building and strengthening Program on Geospatial Technologies for Env. Planning and	Dr. T. Vijayalakshmi	2015-2017	NRDMS-NSDI, DST	10,00,000/-	Ongoing

management					
<b>CENTRE FOR NANO SCIENCE AND TECHNOLOGY</b>					
Synthesis of Nanostructured metal oxides by microwave assisted room temperature ionic liquids and their applications	Dr.K.Venkateswara Rao	3 years	UGC	8.6 Lakhs	On going
Biology-Nanomaterials-Green Nanotechnology	Dr.K.Venkateswara Rao	3 years	UGC	11.7 Lakhs	On going
Development of Gas sensors by Ferrite nanomaterials with microbial biofilm	Dr. K. Venkateswara Rao	3 Years	DST SERB	37,40,000/-	Ongoing
Advanced hybrid lead-acid batteries using nanomaterials for futuristic energy storage applications	Dr. K. Venkateswara Rao	1 Year	TEQIP-II	Rs 2,00,000/-	Ongoing
Synthesis and characterization of novel metal oxide nano composites for gas sensor and humidity sensor	Dr. K. Venkateswara Rao	1 Year	TEQIP-II	Rs 1,75,000/-	
Synthesis & Characterization of Nanomaterials for Energy Storage Applications	CH. Shilpa Chakra	1 Year	TEQIP-II	Rs 2,00,000/-	Ongoing
Novel green synthesis and characterization of nanoparticles and its study on seed germination &	CH. Shilpa Chakra	1 Year	TEQIP-II	Rs 1,75,000/-	Ongoing

growth factors					
<b>Patents:</b>					
1. Development of low Temperature Gas Sensors by Microbial Biofilms with Ferrite Nanomaterials (SERB-DST), Patent filed by <b>Dr. K. Venkateswara Rao</b> , filed number (no. 201641014645), 2016.					
2. Development of artificial ripening of fruits in natural way, patent filed by <b>Dr. K. Venkateswara Rao &amp; Dr., CH. Shilpa Chakra</b> filed number (No. TEMP/E-1/13130/2016-CHE), 2016					
<b>CENTRE FOR PHARMACEUTICAL SCIENCES</b>					
FIST	Dr. Gottumukkala Krishna Mohan	2012-2017	DST (FIST)	55 lakhs	Ongoing
Synthesis, characterization and pharmacological evaluation of some herbal mediated silver nano particles for anti diabetic activity	Dr. Gottumukkala Krishna Mohan	2013-2016	DST (SERB)	39.9 lakhs	Ongoing
Design, Microwave synthesis of novel Angiogenesis Inhibitors As Potential DNA Intercalators	Dr. S. Shobha Rani	2013-2016	UGC-Major Research Project	14.35 lakhs	Ongoing
<b>CENTRE FOR SPATIAL INFORMATION TECHNOLOGY</b>					
Nil					
<b>CENTRE FOR WATER RESOURCES</b>					
UGC Innovative programme for the M.Sc (satellite meteorology & Weather informatics)	Dr.B.Venkateswara Rao	2011-2016	UGC	53.3	Ongoing
Application of resistivity Imaging for the delination of Kaolinised Zones to contain water well failures in the Khondalitic terrain	Dr.B.Venkateswara Rao	2013-2016	DST	19.93	Ongoing

Application of deep 3D resistivity imaging at pairs of success and failed wells to characterize the aquifers in granitic & Ballistic terrains.	Dr.B.Venkateswara Rao	2015-2017	TEQIP - II	4.8 Lacs	Ongoing
Rooftop rainwater harvesting, use and artificial recharge in urban scenario using Geomatics	Dr.M.V.S.S.Giridhar	2 years	AICTE, RPS, New Delhi	14.5	
Hyperspectral remote sensing based crop inventory	Dr.M.V.S.S.Giridhar	3 years	UGC, New Delhi	12	Ongoing
Validation of hyperspectral remote sensing based drought assessment through water balance and geomatic approach	Dr.M.V.S.S.Giridhar	3 years	AICTE, RPS, New Delhi	10.91	Ongoing
Urban Lake water quality Monitoring- A people's participation approach	Dr.M.V.S.S.Giridhar	3 Years	Earth Watch International NGO, International Funding	7	Ongoing
Drinking water Augmentation to SC communities in fluoride effected area of Nalgonda district through rain water Conservation	Dr.M.V.S.S.Giridhar	2 years	NRDMS, DST, New Delhi	5.52	Ongoing
UGC Innovative programme XI plan	Coordinator CEA&WMT	2013- 2017	UGC	57 lakhs	Ongoing
<b>Consultancy :</b> Identification of water well points using Resistivity	Dr.B.Venkateswara Rao	2016	Individual farmers	0.3 Lacs	completed



Imaging at Vemula village, Jadcherla Mandal, Mahabubnagar district in 2016.					
Identification of water well points using Resistivity Imaging at Aziz nagar, Near APPA junction, Hyderabad in 2016.	Dr.B.Venkateswara Rao	2016	Individual farmers	0.15 lakhs	Ongoing

### **PATENTS:**

1. **Dr.M.V.S.S.Giridhar** Applied for Patent on 16<sup>th</sup> December, 2015. Replenishing Aquifers With Excess Surface Flows Above Fsl Of Canals/ Tanks/ Lakes Through Filter Coupled Recharge Shaft”

2. **Dr.M.V.S.S.Giridhar** Applied for Patent on 24/04/2015. A patent was published on Application of geo membrane sheet in the Rain Water Harvesting Structure

### **11. Training and Placements details (during Academic Year 2015-2016):**

S.No.	Organization name	Ug/Pg	Male	Female	Total
<b>CENTRE FOR BIOTECHNOLOGY</b>					
<b>NIL</b>	<b>NIL</b>	<b>NIL</b>	<b>NIL</b>	<b>NIL</b>	<b>NIL</b>
<b>CENTRE FOR CHEMICAL SCIENCES AND TECHNOLOGY</b>					
<b>1</b>	Neuland laboratories ltd, Hyderabad	PG	7	6	13
<b>2</b>	SAI LIFE SCIENCIES Banjara Hills,Hyderabad, Telangana State	PG	8	3	11
<b>CENTRE FOR ENVIRONMENT</b>					
<b>1</b>	<b>GVK bio</b>	<b>PG</b>	<b>2</b>	<b>2</b>	<b>4</b>
<b>CENTRE FOR NANO SCIENCE AND TECHNOLOGY</b>					
<b>1</b>	<b>Accenture</b>	<b>PG</b>		<b>1</b>	<b>1</b>
<b>CENTRE FOR PHARMACEUTICAL SCIENCES</b>					

1	Aizant Pharma company	Pg	2	1	3
2	Neuheit Pharma Technologies.Pvt.Ltd	Pg	2	1	3
3	GVK Pharma	Pg	3	2	5
<b>CENTRE FOR SPATIAL INFORMATION TECHNOLOGY</b>					
01	Accenture	PG	01	01	02
<b>CENTRE FOR WATER RESOURCES</b>					
1	GVK Bio Science	PG	01	Nil	01
<b>Centre For Earth, Atmosphere And Weather Modification Technology</b>					
Nil	Nil	Nil	Nil	Nil	Nil

## 12. Details of Students Academic/ Co-curricular/ Sports Achievements/ NSS Activities

- IST has initiated number of extended and social responsible activities through it NSS cell.

### Few of the activities are listed below:

- Faculty and students of IST through NSS participated in Swachh Bharath, plantation/haritha haram program, which are state and central governments prestigious projects.
- IST, JNTUH with TERI conducted a Two day seminar on Entrepreneur Skill development and Sustainable Development- 10-11 Dec 2015
- Promotion of Clay idols of Lord Vinayaka for “Vinayaka Chavithi” as a eco-friendly measure by students of M.Tch, M.Sc EST & EBT, annually and Clay Ganesha and canvassing on bucket nimarjanam program,
- Inter university water resource management competitions, September Kerala 2015
- Prakruthi rakshak award -2015, Group discussion
- State level inter university floral biodiversity campaign, October 2015
- Participation in international youth festival April 2016
- Silver jubilee celebrations on 20/04/2016 to 22/04/2016 IST, Sports (cricket), Blood donation camps swachh bharat

### **13. Major activities and achievements of the Institutions (during Academic Year 2015-2016):**

#### **i) Honors/ Distinctions/Awards/Rewards (during Academic Year 2015-2016):**

- Dr. K. Venkateswara Rao awarded as Raman Fellow
- Prof.B.Venkateswara Rao awarded State Meritorious Teacher for the year 2015 by Government of Telangana.

#### **ii) Ph.D. Degrees awarded (during Academic Year 2015-2016): CBT-09**

#### **iii) Foreign visits (during Academic Year 2015-2016): CBT-NIL**

- Dr.Ch.Sasikala , participated in International symposium on photo tropic prokaryote (ISPP) (August 2-6 2015) in Germany and visits to university of Stuttgart, IFM-GEOMAR Kiel Germany and University of Gothernburg Sweden
- Dr.T.Vijaya Lakshmi, participated in Science Diplomacy Workshop on Water Management, Sponsored by "The World Academy of Sciences" , Trieste, Italy during 30 Nov- 5th Dec., 2015.
- Dr K. Manjula Vani, Prof., visited Sweden and Germany under TEQIP-II Network program

#### **CWR**

- Dr.B.Venkateswar Rao has attended 42nd IAH Congress AQUA – 2015, International Association of Hydrogeologists, Rome, Italy on September 13-18 2015.
- Dr. M.V.S.S.Giridhar has attended 5<sup>th</sup> international Conference on Agriculture, Environment and Biological sciences (ICAEBS- 2016 Pattaya , Thailand) during April 28- 29 2016.

#### **Major activities and achievements related to Environment Consciousness:**

- Eleven structures were completed and working successfully since 2012. Nearly 7 (Six) crore liters surplus rainwater was harvested during this year.
- Various engineers were trained on rainwater harvesting systems in the campus.
- Awareness programs conducted for school children.
- Several outreach programs were conducted in the JNTUH campus for various stake holders.



**RWHs engineers visiting the RWH structures in the JNTUH campus**



**RWHs engineers visiting the RWH structures in the JNTUH campus**

**14. Any other relevant/significant information:**

- Dr.T.Vijaya Lakshmi, Asst. Professor, appointed as Telangana State level Expert Appraisal Committee (SEAC) of State Environmental Impact Assessment Authority (SEIAA) of Ministry of Environment & Forests, Govt.of India.

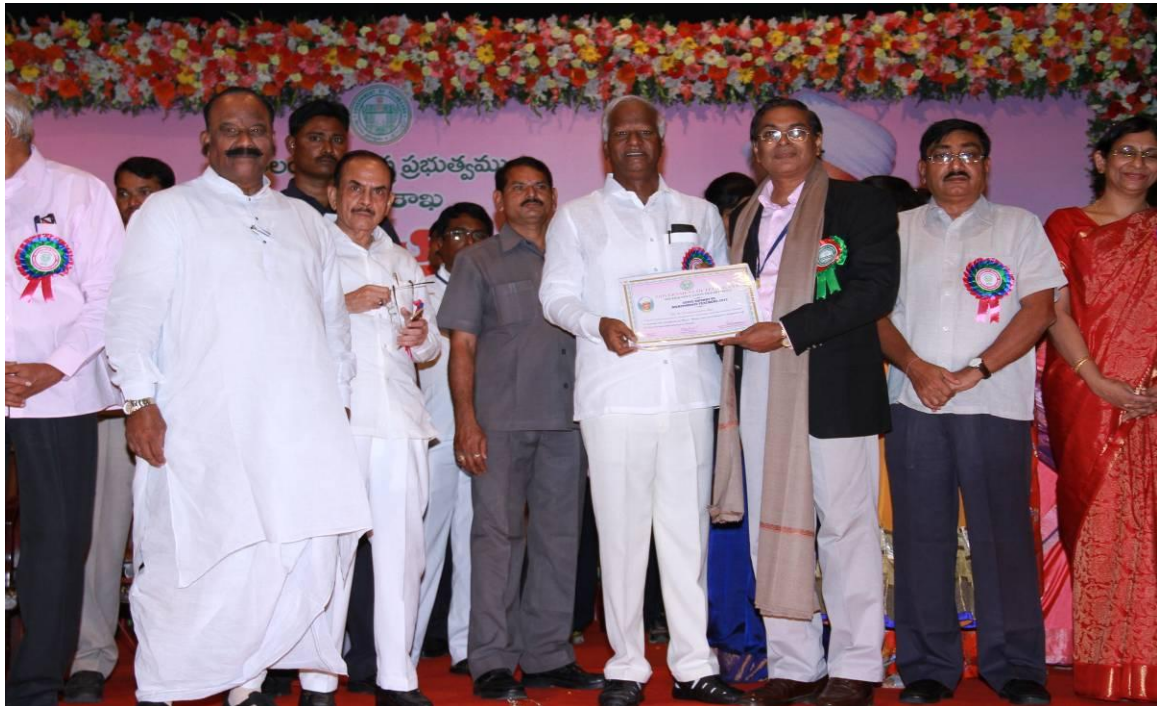
- Manasa, Sowmya, Sharan Kumar and Tejaswini Reddy were the Master students of CNST ,selected for Award of Inspire Fellow by Department of Science and Technology (DST)-Government of India, Ministry of Science & Technology, in the year 2013, 2014, 2015 and 2016.
- Satish, Dayakar and Prabhu were the Master students selected for the Rajiv Gandhi National Fellowship (RGNF) by the University Grant Commission (UGC) in the year 2012, 2013 and 2014.
- Master students K. Manikantan is pursuing his PhD in Sungkyunkwan University, South Korea. M. Srikanth, PhD in Deakin university, Australia. Kartik PS , Krishna Rao, Abhinav, PhD in Okayama University, Japan. R. Sugunaka reddy Nanyang Technological university, Singapore.
- One of the Doctorate student of CNST, Rajendar is pursuing his PDF in Yeungnam university, South Korea.
- 7 number of Invited lectures were organized for CNST.
- MOU with Honewel co. to be finalized shortly.
- In June 2016 Honewell co. visiting the campus for campus placements.

**Undertaking by the Director/Principal / Head of the dept**



**Group photo of CNST Dept in International workshop**

**Prof.B.Venkateswar Rao receiving Best teacher award from Govt of Telangana**





**Natural spring water from earth at ROME – a field visit under TEQIP-II**



**Dr.M.V.S.S.Giridhar presenting paper at international conference in Thailand**



**Science day 2016 at IST, JNTUH**