

**Institute of Science & Technology (Autonomous)**  
**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY**  
**HYDERABAD**

Kukatpally, Hyderabad – 500 085, Telangana State (India)

**ANNUAL REPORT 2013-2014**

<b>1. Name of the College/Dept/School/Centre</b>	<b>Institute of Science &amp; Technology (Autonomous)</b>
<b>2. Address</b> (with contact number/fax, and E-mail id)	<b>Institute of Science &amp; Technology (Autonomous)</b> Jawaharlal Nehru Technological University Hyderabad Kukatpally, Hyderabad-500 085 Telangana, India <b>Phone:</b> +91-40-23516831 <b>Fax:</b> +91-40-231582
<b>3. Year of Establishment</b>	<b>1989</b>
<b>4. Name of the Principal/Director</b> (with qualification)	<b>Prof. A Jayashree, M.Sc, Ph.D</b> <b>Director of IST</b>
<b>5. Brief history about the College/Dept.</b>	<p>In 1989 Jawaharlal Nehru Technological University established a number of Centers for Excellence to form a strong academic nucleus. They started functioning from 1991 under the Institute of Science and Technology (IST). IST was located in the heart of the twin cities of Hyderabad &amp; Secunderabad. Now being located in the Campus which is also the Head quarters of JNT University, IST enjoys certain facilities. As any Technological upgradation within J.N.T.U. starts with IST. The location of the campus provides an academic environment and promotes learning. Centre for Biotechnology Centre for Environment, Centre for Nano science and Technology, Centre for Pharmaceutical sciences, Centre for Spatial Information Technology, Centre for Water Resources are the constituent units of the institution. The basic thrust of these Centers is in the emerging areas of research and education in the fields of Engineering, Technology and Applied Sciences of interdisciplinary and multi-disciplinary character.</p> <p><b>Centres in IST :</b>  Centre for Biotechnology (CBT)  Centre for Chemical Sciences &amp; Technology (CCST)  Centre for Environment (CEN)  Centre for Nano Science and Technology (CNST)  Centre for Pharmaceutical Sciences ( CPS )  Centre for Spatial Information Technology (CSIT)  Centre for Water Resources (CWR)</p> <p><b>Research Centres:</b>  Centre for Alternative Energy Options(CAEO)  Centre for Innovative Reasearch (CIR)</p> <p><b>Essential Objectives of IST:</b>  To offer Post-Graduate and Research programmes leading to MTeCh, MSc. , M.Phil., MS and Ph.D., degrees in the latest technological thrust areas  To promote field-oriented research activities in collaboration with industrial units.To provide refresher courses periodically to serving engineers, scientists in the government, semi-government and other organizations.  To establish academic links with institutes of higher learning in India and abroadTo impart training programmes and offer consultancy services.  The various units of IST have received several grants from MHRD, AICTE, UGC and DST towards Research &amp; Development activities and for starting new courses in thrust areas.</p>



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<b>Centre for water Resources.</b>							
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**8. Details of the Seminars/ Conferences / Workshops /Refresher Courses / Orientation Courses/ FDP conducted during the academic year 2013-14**

Nature of programme conduct: conference/workshop etc..	Title of the Programme	Date of conduct	No. of participants	Sponsored body/institute
<b>1. Centre for Biotechnology</b>				
National conference Dr.L.Saida	National banjara professors-conference	September 14-15	TEQIP-II	YES
National conference Dr.L.Saida	Modeling simulation and optimization of bioprocesses	8-10 2013	TEQIP II	YES
International conference Dr.L. Saida	Chemical and Bioprocessing Engineering	Nov 16-17 2013	TEQIP II	YES
National work shop	Recent advances in Science and Technology	5 th march 2014	TEQIP II	YES
International conference Dr. L. Saida	Emerging trends in engineering technology and science	24-24 feb 2014	MLRIT	Yes
International conferance	Bioenergy, environment and sustainable technologies	Jan 27-30	Aruni engineering college tamilnadu	YES
<b>2. Centre for Chemical Sciences and Technology</b>				
International conference	New Dimensions in Chemistry and Chemical Technology- Applications in Pharma Industry	23 <sup>rd</sup> June 2014 – 25 <sup>th</sup> June2014	300	TEQIP
workshop	Emerging trends in Chemical Sciences and Technology	9-1-2014		TEQIP
workshop	Industrial Waste Water Treatment Technologies – Zero Discharge	21-3-2014		TEQIP
workshop	Emerging Trends Industrial Waste Management Technologies”	22-03-2013		TEQIP
Refresher Course	Current trends in Teaching Methodologies related	18-11-2013 to 7-12-2013		UGC-Academic Staff College, JNTUH

	to Chemistry and pharmacy”			
<b>3. Centre for Nano science and Technology</b>				
-	-	-	-	-
<b>4. Centre for Environment</b>				
Workshop (Dr. Ch. Sasikala)	One day national work shop on “Genetically modified crops” on the eve of National Science Day	28 <sup>th</sup> February 2013	150	IST
Workshop (Dr. Ch. Sasikala)	A simulation conference “COP in my city, Warsaw in Hyderabad” jointly with Revolution, an NGO	20 <sup>th</sup> November 2013	150	NGO & JNTUH
National level technical festival(Dr.Ch. Sasikala)	Avani-2014, A National level technical festival on Environmental Science & Technology	13 <sup>th</sup> -14 <sup>th</sup> March 2014	150	NGO Revolution-Lets change
<b>5. Centre for Pharmaceutical Sciences</b>				
Conference	Current status and future prospectus in pharmacy education and research- Towards industry application	29-30 <sup>th</sup> November 2013	150-	JNTUH
Guest lecture	“Advances in inhaled drug delivery in the centre for topical drug delivery and toxicology	26 <sup>th</sup> November 2013	150	IST, JNTUH
<b>6. Centre for Spatial Information Technology</b>				
-	-	-	-	-
<b>7. Centre for Water Resources</b>				
Faculty Development programme <b>Dr.M.V.S.S.Giridhar</b>	Applications of geomatics for disaster management (AGDM)	30 <sup>th</sup> December 2013 – 11 <sup>th</sup> January 2014	50	AICTE, New Delhi
National Conference <b>Dr.M.V.S.S.Giridhar</b>	Two day National conference on Water, Environment and Society (NCWES-2014)	During 30 <sup>th</sup> June – 01 <sup>st</sup> July 2014	300	TEQIP-II, IST, JNTUH
Refresher Course <b>Dr.B.Venkateswara</b>	Satellite data applications in	March 28 - April 18	20	UGC, JNTUH

<b>Rao</b>	weather and climate change	2013.		
Refresher Course <b>Dr.B.Venkateswara Rao</b>	Satellite Data applications in Earth and atmospheric sciences	Jan 6-11, 2014	20	UGC, JNTUH
Training program <b>Dr.B.Venkateswara Rao</b>	3D Resistivity imaging for groundwater exploration	March 24- 27, 2014	20	TEQIP-II, IST, JNTUH

**9. Details of the Seminars / Conferences / Workshops /Refresher Courses / Orientation Courses/ FDP's attended during the academic year 2013-14**

Nature of programme attended: conference/workshop etc..	Title of the Programme	Date of conduct	Sponsored body/institute	Certificate availability
<b>1. Centre for Biotechnology</b>				
International Conference  (Dr. Archana Giri)	Conference on Bioenergy, Environment and sustainable Technologies (BEST 2013)	Jan 27-30	Arunai Engineering college, Tiruvanamalai, Tamilnadu	
<b>2. Centre for Chemical Sciences and Technology</b>				
International conference	New Dimensions in Chemistry and Chemical Technology- Applications in Pharma Industry	23 <sup>rd</sup> June 2014 – 25 <sup>th</sup> June 2014	TEQIP	Yes
workshop	Industrial Waste Water Treatment Technologies – Zero Discharge	21-3-2014	TEQIP	Yes
workshop	Emerging trends in Chemical Sciences and Technology	9-1-2014	TEQIP	Yes
workshop	Emerging Trends Industrial Waste Management Technologies”	22-03-2013	TEQIP	Yes
Refresher Course	Current trends in Teaching Methodologies related to Chemistry and pharmacy”	18-11-2013 to 7-12-2013	UGC-Academic Staff College, JNTUH	Yes
<b>3. Centre for Nano science and Technology</b>				
International Conference	International conference on Emerging Trends in Biomarker Research- Prospects &	13 <sup>th</sup> -14 <sup>th</sup> Sep, 2013	JNTUH	Yes

	Challenges			
International Conference	International conference on Smart Systems(ICSS-2013)	7 <sup>th</sup> -8 <sup>th</sup> Oct, 2013	JNTUH	Yes
Short term course	Pedagogical Training (Module - I)	16.12.2013 to 20.12.2013	TEQIP-II	Yes
International Conference	International conference on Nano Bio & materials science (ICONBMS-2014)	8 <sup>th</sup> -10 <sup>th</sup> Jan, 2014	JNTUH	Yes
National Seminar	National seminar on Bio-Inspired Devices (An Emerging Trend in Science)	17 <sup>th</sup> – 18 <sup>th</sup> Jan, 2014	JNTUH	Yes
Workshop	Workshop on Navigating New Frontiers in Materials (NNFM)	2 <sup>nd</sup> – 6 <sup>th</sup> July, 2013	JNTUH	Yes
Workshop	Advances in X-Ray Diffractometry & Scanning Electron Microscopy	15 <sup>th</sup> – 17 <sup>th</sup> July, 2013	JNTUH	Yes
Workshop	A One Day National level Workshop on Emerging Trends in Nanotechnology	24 <sup>th</sup> Aug, 2013	JNTUH	Yes
Workshop	National workshop on Recent Advances in Science & Technology	5 <sup>th</sup> March, 2014	JNTUH	Yes
Workshop	Workshop on Industrial Waste Water Treatment Technologies-Zero-Discharge	21 <sup>st</sup> March,2014	JNTUH	Yes
Workshop	Workshop on Intellectual Rights	26 <sup>th</sup> March,2014	JNTUH	Yes
National Symposium	A National level students technical symposium	28 <sup>th</sup> -29 <sup>th</sup> March, 2014	JNTUH	Yes
<b>4. Centre for Environment</b>				
Training program	training program	23rd & 24th,	ISB”,	Yes

(Dr. V. Himabindu)	on “Capacity Building to Strengthen Management Training Programme”	December, 2013		
National Symposium (Dr. V. Himabindu)	Participated in National Symposium on Sustainable E–Waste Recycling Technologies	8 <sup>th</sup> march 2014	Centre for Materials for Electronics Technology, Hyderabad	Yes
Workshop (Dr. V. Himabindu)	One day Workshop on " <i>Non conventional Energy for Reduction pollution &amp; Conservation in MSMEs</i> "	27 <sup>th</sup> March 2014	organized by National Institute for Micro, Small and Medium Enterprise	Yes
Workshop (Dr. V. Himabindu)	Attended one day workshop on Intellectual Property Rights	26 <sup>th</sup> March 2014,	APCOST, IPR Cell, R&D Cell. JNTUH	Yes
International conference (Dr. V. Himabindu)	4 <sup>th</sup> International conference on solid waste management (IconSWM-2014)(ISWMAW),.	28-30 <sup>th</sup> Jan-2014	ANGRU, Hyderabad	Yes

#### 5. Centre for Pharmaceutical Sciences

Symposium <b>M.Sunitha Reddy</b>	INDO-US PHARMA SYMPOSIUM	6 <sup>th</sup> Feb 2013	150-	JNTUH
Conference <b>M.Sunitha Reddy</b>	Emerging Trends in Chemical Science and Technology	9 <sup>th</sup> January, 2014	150	TEQIP – II, IST, JNTUH.
Symposium <b>M.Sunitha Reddy</b>	Pharma Rendezvous for Better Health Care	1 <sup>st</sup> March, 2014	400	Sultan-ul-Uloom College of pharmacy, Hyderabad
Workshop <b>M.Sunitha Reddy</b>	National Workshop on Recent advances in Science & Technology	5 <sup>th</sup> March, 2014	150	TEQIP – II, IST, JNTUH.
Conference <b>M.Sunitha Reddy</b>	Industrial Wastewater treatment technologies-zero discharge	21 <sup>st</sup> March, 20	150	CCST, IST, JNTUH under TEQIP – II, IST, JNTU

Workshop <b>M.Sunitha Reddy</b>	Intellectual Property Rig	26-03-2014	150	IPR Cell JNTUH, R&D Cell JNTUH, JNTUH CEH & JNTUH IST.
Conference <b>M.Sunitha Reddy</b>	New Dimensions in Chemistry and Chemical Technologies-Applications in Pharma Industry(NDCT-2014)	June 23 <sup>rd</sup> – 25 <sup>th</sup> , 2014	150	CCST, IST, JNTUH under TEQIP – II, IST, JNTUH.
<b>6. Centre for Spatial Information Technology</b>				
International conference <b>(J.Venkatesh)</b>	International Conference on Advances in Thermal and Energy System	2013	-	Yes
National Seminar <b>(J.Venkatesh)</b>	Satellite based Terrestrial Based Augmentation Syatem & LAAS for Aircraft Navigation	2013	Chaitanya Bharathi Institute of Technology	Yes
<b>7. Centre for Water Resources</b>				
International Conference <b>B.Venkateswara Rao</b>	Second Symposium on the geological resources in the Tethys realm, Aswan, Egypt.	January 5-8, 2013	TEQIP-II	Yes
National Conference <b>Dr.M.V.S.S. Giridhar</b>	Sustainable Water Resources Planning, Management and Impact of Climate Change	05-Apr-2013 to 06-Apr-2013	IST, JNTUH	Yes
International Conference <b>Dr.M.V.S.S. Giridhar</b>	International conference on towards geo-enabled economy	22-Jan-2013 to 24-Jan-2013	IST, JNTUH	Yes
National Workshop <b>Dr.M.V.S.S. Giridhar</b>	Emerging Trends in Industrial Waste Management Technologies	22-Mar-2013	IST, JNTUH	Yes
International Conference <b>Dr.M.V.S.S. Giridhar</b>	Earth Science and Climate Change	28-July-2014 to 30-July-2014	TEQIP-II	Yes
National Conference <b>Dr.M.V.S.S. Giridhar</b>	Environment and Energy	15 – 17 December,2014	TEQIP-II	Yes



National Conference <b>Dr.M.V.S.S. Giridhar</b>	Hydraulics, Water Resources, coastal and Environmental Engineering	18-20 December, 2014	TEQIP-II	Yes
National Workshop <b>Dr.M.V.S.S. Giridhar</b>	Soalr pumps in rural water supply	10-11 july 2014	TEQIP-II	Yes

#### 10. Details of Research Publications (during Academic Year 2013-2014):

S.No:	List of Authors	Title of the Paper	Journal Name Volume number & Page number	Year of Publi cation	ISBN/ ISSN/ Impact Factor
<b>1.Centre for Biotechnology</b>					
1	N. Kumudini, <b>A. Uma</b> , Y. Prameela Devi, SK. Mohammad Naushad, R Mridula, R. Borgohain, K. Vijay kumar	Impact of COMT H108L, MAOB int 13 A>G and DRD2 halotype on the susceptibility to Parkinson's disease in South Indian subjects.	<i>Indain Journal of Biochemistry &amp; Biophysics</i>	<b>2013</b>	ISSN
2	B. Venkanna, <b>A. Uma</b> , Ch. Suvarnalaxmi, N. Chandrasekharnath, R. S. Prakasham, L. Jayalaxmi	Antimicrobial property of <i>Datura</i> leaf extract against Methicillin-resistant <i>Staphylococcus aureus</i> isolated from Urethral and Skin Suppurative Infections.	<i>Current Trends in Biotechnology and Pharmacy</i>	<b>2013</b>	<b>3.45</b>
3	N. Chandrasekharnath, Y.V Mahlakshmi, L. Jayalakshmi, B. Venkanna, <b>A. Uma</b>	Screening and isolation of bioactive factors from Commiphoramyrtha and evaluation of their antimicrobial activity.	<i>International Journal of Engineering Research and Applications (IJERA)</i>	<b>2013</b>	
4	N. Chandrasekharnath, B. Venkanna, Y.V. Mahlakshmi, <b>A. Uma</b>	Phytochemical analysis and antimicrobial activity of various solvent extracts of <i>Punicagranatum</i> and <i>Phyllanthusniruri</i> .	An International Journal of Advances in Pharmaceutical Sciences.  <i>(PHARMANEST)</i>	<b>2013</b>	
5	D. Nagaiah, R. S. Prakasham, A. V. Umakanth, <b>A. Uma</b> , P. Srinivasa Rao	Sweet Sorghum Juice as an Alternate Substrate for Fermentative Hydrogen Production: Evaluation of Influencing Parameters Using DOE Statistical Approach.	<i>Sugar Tech</i>	<b>2013</b>	

6	Ramesh Garlapati, Narender Pottabathini, Venkateshwarlu Gurram, Kumara Swamy Kasani, Rambabu Gundla, Chiranjeevi Thulluri, Pavan Kumar Machiraju, Avinash B. Chaudhary, <b>Uma Addepally</b> , Venkata Rao Chunduri, Balaram Patro	Development of $\alpha$ -Glucosidase inhibitors by room temperature C-C cross couplings of quinazolinones.	<i>Organic and Biomolecular Chemistry</i>	<b>2013</b>	
7	Sanjay Saha, Ch. VenkataRamana Reddy, T. Chiranjeevi, <b>Uma Addepally</b> , T. S. ChintaRao, BalaramPatro	The first total synthesis and biological evaluation of marine natural products ma'edamines A and B.	<i>Bioorganic &amp; Medicinal Chemistry Letters</i>	<b>2013</b>	<b>3.56</b>
8	RamuSurakanti, Suma lathaSanivarapu, Chiranjeevi Thulluri, Pravin S Iyer, Raghuram S Tangirala, RambabuG undla, <b>Uma Addepally</b> , Y L N Murthy, Lakshmi Velide, Subhabrata Sen	Synthesis of Privileged Scaffolds by Using Diversity-Oriented Synthesis.	<i>Chemistry – An Asian Journal</i>	<b>2013</b>	2.338
9	Subhabrata Sen, Siva R. Kamma, RambabuGundla, <b>Uma Addepally</b> , Santosh Kuncha, Sridhar Thirnathi, U. Viplava Prasad	A Reagent based DOS strategy via Evans chiral auxiliary: Highly stereoselective Michael reaction towards optically active quinolizidinones, piperidinones and pyrrolidinones.	<i>The Royal Society of Chemical. RSC Adv.</i>	<b>2013</b>	<b>4.57</b>
10	K Radhika, GC Sekhar, <b>A Uma</b> , M Lakshmi	Fermentation of enzymatically saccharified brassica compestris stalks for fuel ethanol production by pichia stipitis ncim 3498	<i>Journal of Global Trends in Pharmaceutical Sciences.</i>	<b>2013</b>	<b>2.562</b>
11	R Borgohain, K Nadella, <b>A Uma</b> , RM Kandadai, VK Kutala	Association of dopamine metabolizing gene polymorphisms in Parkinson's disease-A study from India.	<i>Movement Disorders</i>	<b>2013</b>	

12	C Thulluri, BR Goluguri, R Konakalla, PR Shetty, U Addepally.	The effect of assorted pretreatments on cellulose of selected vegetable waste and enzymatic hydrolysis.	<i>Biomass and bioenergy</i>	2013	
13	Uma Addepally, Radhika Konakalla, Lakshminarasu Mangamuri, Chiranjeevi Thulluri	Design of Effective dosage of Holocellulolytic enzymes for the hydrolysis of pretreated biomass to fermentable sugars and their fermentation to ethanol.	5550/CHE/2013	2013	
14	R Surakanti, s sanivarapu, c thulluri, p slyer, RS tangirala , R gundla	Corrigendum : synthesis of privileged scaffolds by using diversity-Oriented synthesis	Chemistry- an asian journal	2014	
15	Kumudini N, Uma A, Naushad SM, Mridula R, Borgohain R, Kutala VK,	Association of seven functional polymorphisms of one-carbon metabolic pathway with total plasma homocysteine levels and susceptibility to Parkinson's disease among South Indians.	Neuroscience Letters	2014	
16	RS Prakasam,D Nagaiah,KS Vinutha,A Uma,T Chiranjeevi	Sorghum biomass: a novel renewable carbon source for industrial bioproducts.	Biofuels	2014	
17	Tulluri Chiranjeevi, Uma Addepally	preparation of eco-benign particle wood adhesive using tailored lignin prepared from lignin rich bio-sources	CH Petent App	2014	
18	Uma Addepally, Chiranjeevi Thulluri	An efficient conversion of cellulose and hemicellulose fractions into furan-based platform feedstock chemicals	CH Petent App	2014	
19	Uma Addepally, Ravi Danavath, Chiranjeevi Thulluri	Sequential fractionation of Rice straw into hemicellulose, lignin, silica and cellulose, and an efficient saccharification of cellulose for fermentable sugar (Glucose) production	CH Petent App	2014	
20	Vijay Kumar Kutala.	Methodological issues in	Pharmacogenomics	2014	

	Pavani, Addepalli, Shaik Mohammad Naushad, Addepally Uma	the development of a pharmacogenomic algorithm for warfarin dosing: comparison of two regression approaches			
21	Uma, A., Rani, G. B., Chiranjeevi, T., Chandel, A. K., Satish, T., Radhika, K., Narasu, M. L.	Optimization of selective production media for enhanced production of xylanases in submerged fermentation by <i>Thielaviopsis basicola</i> MTCC 1467 using L16 orthogonal array	Journal of food science and technology	2014	
22	Sujatha Thathapudi, Vijayalakshmi Kodati, Jayashankar Erukkambattu, Anuradha Katragadda, Uma Addepally, Qurratulain Hasan	Anthropometric and biochemical characteristics of polycystic ovarian syndrome in South Indian women using AES-2006 criteria	International journal of endocrinology and metabolism	2014	
23	K Radhika, U Addepally, T Chiranjeevi, SL Kota	Improved Cellulase Production using Sorghum Biomass as Carbon Source by <i>Aspergillus</i> sp. using Plackett-Burman and Response Surface Methodology under SmF Conditions	INTERNATIONAL JOURNAL OF RECENT TRENDS IN SCIENCE AND TECHNOLOGY	2014	
24	Ch Suvarna Lakshmi, A Uma, RS Prakasham, L Jayalaxmi, N Chandrasekhar	Phytochemical Analysis and Antimicrobial Potential of <i>Abutilon indicum</i> Stem Extracts against GUTI Pathogens	Current Trends in Biotechnology and Pharmacy	2014	
25	T Chiranjeevi, A Uma, K Radhika, G Baby Rani, RS Prakasham,	Enzymatic hydrolysis of market vegetable waste and subsequent ethanol fermentation-Kinetic evaluation	Journal of Biochemical Technology	2014	
26	YP DEVI, A UMA, ML NARASU	Anticancer activity of gallic acid on cancer cell lines, HCT15 and MDA MB 231	International Journal of Research in Applied, Natural and Social Sciences	2014	
27	Nadella Kumudini, Addepally Uma, Yalavarthy Prameela Devi, Shaik Mohammad Naushad, Rukmini Mridula, Rupam Borgohain, Vijay	Association of Parkinson's disease with altered serum levels of lead and transition metals among South Indian subjects.	Indian J Biochem Biophys.	2014	

	Kumar Kutala				
28	Rajaram V, Nepolean T, Senthilvel S, Varshney RK, Vadez V, Srivastava RK, Shah TM, Supriya A, Kumar S, Ramana Kumari B, Bhanuprakash A, <b>Lakshmi Narasu M</b> , Riera-Lizarazu O, Hash CT	Pearl millet [ <i>Pennisetum glaucum</i> (L.) R. Br.] consensus linkage map constructed using four RIL mapping populations and newly developed EST-SSRs	BMC Genomics	<b>2013</b>	1471- 2164
29	Satyanarayana Rentala, Sudhakar Konada, Ramakrishna Chintala, <b>Lakshmi Narasu Mangamoori</b> , Suryanarayana Murthy Upadhyayula, and Sarva Mangala Dhurjeti	Docking studies of Vitamin C, Vitamin E, Damnacanthal and Scopoletin with human lens gamma D- crystalline Bioinformation	. Bioinformation	<b>2013</b>	0973- 2063
30	Satyanarayana Rentala, Ramakrishna Chintala, Manohar Guda, Madhuri Chintala, Aruna Lakshmi Komarraju, <b>Lakshmi Narasu Mangamoori</b>	Atorvastatin inhibited Rho-associated kinase 1 (ROCK1) and focal adhesion kinase (FAK) mediated adhesion and differentiation of CD133 <sup>+</sup> CD44 <sup>+</sup> prostate cancer stem cells	Biochem. Biophys. Res.Comm	<b>2013</b>	1090- 2104
31	SubathraMurugan, SanthakumarPonsekar an LingarajaKannivel, <b>Lakshmi Narasu Mangamoori</b> , DevChandran, SrinivasanVilluppano or Alwar, ChandraniChakravart y, Sunil K.Lal	Recombinant haemagglutinin protein of highly pathogenic avian influenza A (H5N1) virus expressed in <i>Pichia pastoris</i> elicits a neutralizing antibody response in mice	Journal of Virological Methods	<b>2013</b>	0166- 0934
32	JyotiMareddy Suresh BabuNallapati, JayasreeAnireddy, Yumnam PriyadarshiniDevi, <b>Lakshmi</b>	Synthesis and biological evaluation of nimesulide based new class of triazole derivatives as potential PDE4B inhibitors	Bioorganic & Medicinal Chemistry Letters	<b>2013</b>	0960- 894X

	<b>NarasuMangamoori,</b> RavikumarKapavarapu, SarbaniPal	against cancer cells			
33.	Durga Maheswari Parvataneni, Rambha u Devraj, <b>Lakshmi</b> <b>Narasu Mangamoori</b>	Microparticles- entrapped micelles: a novel delivery system to improve solubility and dissolution rate of poorly water-soluble valsartan	Journal of Microencapsulation	<b>2013</b>	0265- 2048
34	Hanumanthu Prasanna Lakshmi, Uppu Venkateswara Prasad, Sthanikam Yeswanth,Vimjam Swarupa,Osuru Hari Prasad, <b>Mangamoori</b> <b>Lakshmi Narasu,</b> Potukuchi Venkata Gurunadha Krishna Sarma	Molecular characterization of $\alpha$ - amylase from <i>Staphylococcus</i> <i>aureus</i>	Bioinformation	<b>2013</b>	0973- 2063
35	V.V.V. Sekhar Reddy, Ghadiyaram Chakshusmathi, Kum ar Panigrahi, Sunil, Hosahalli Subramanya, <b>Narasu</b> <b>Mangamoori</b> <b>Lakshmi</b>	Diphenylether Derivative as Selective Inhibitor of Protein Tyrosine Phosphatase 1B (PTP1B) Over T- cell Protein Tyrosine Phosphatase (TCPTP) Identified through Virtual Screening	Mini Reviews in Medicinal Chemistry	<b>2013</b>	1875- 5607
36	Polavarapu Baby Rani , Suneel Kumar Battula, A. K. S. Bhujanga Rao, Madhavi Gunja & <b>Mangamoori</b> <b>Lakshmi Narasu</b>	Improvement of Microbial Strain and Fermentation Process of Rapamycin Biosynthesis	Preparative Biochemistry and Biotechnology	<b>2013</b>	1532- 2297
37	V. Prathap Reddy, N. Narasimha Rao, P. S. Vimala Devi, S. Sivaramakrishnan, <b>M. Lakshmi Narasu</b> , V. Dinesh Kumar	Cloning, Characterization, and Expression of a New <i>cryIAb</i> Gene from DOR Bt-1, an Indigenous Isolate of <i>Bacillus</i> <i>thuringiensis</i>	Molecular Biotechnology	<b>2013</b>	1559- 0305

38	A. Ravi Charan , <b>M. Lakshmi Narasu</b> , P.S. Vimala Devi	Genotyping and Molecular Characterization of Local Bacillus Thuringiensis Isolates of DOR by Using PCRBased Methods	International Journal of Biotechnology & Biochemistry	<b>2013</b>	0974-4762
39	<b>M. LakshmiNarasu</b> , KrzysztofUrbaniec	International conference on advances in biological hydrogen production and applications ICABHPA 2012	Journal of Cleaner Production	<b>2013</b>	0959-6526
40	Sarath K.Yandrapu, ParijatKanujiaPhD, Kishore B.Chalasanani, <b>Lakshmi narasu Mangamoori</b> , Ramanamurthy V.Kolapalli, AbhayChauhan	Development and optimization of thiolated dendrimer as a viable mucoadhesive excipient for the controlled drug delivery: An acyclovir model formulation	Nanomedicine: Nanotechnology, Biology and Medicine	<b>2013</b>	1549-9634
41	Hanumanthu Prasanna Lakshmi, Sthanikam Yeswanth, Uppu Venkateswara Prasad, Dudipeta Vasu, Vimjam Swarupa1, Pasupuleti Santhosh Kumar, <b>Mangamoori Lakshmi Narasu</b> & Potukuchi Venkata Gurunadha Krishna Sarma	Cloning, expression and characterization of glucokinase gene involved in the glucose-6-phosphate formation in <i>Staphylococcus aureus</i>	Bioinformation	<b>2013</b>	0973-2063
42	Kavitha Kankanala,Vangala Ranga Reddy, Yumnam Priyadarshini Devi, <b>Lakshmi Narasu Mangamoori</b> , Khagga Mukkanti, and Sarbani Pal	Nimesulide Based Novel Glycolamide Esters: Their Design, Synthesis, and Pharmacological Evaluation	Journal of Chemistry	<b>2013</b>	2090-9071
43	Palavarapu Babyrani, Batulla Sunil, AKS Bhujanga rao, S Srinivasrao, <b>Mangamoori Lakshmi Narasu</b>	Recovery and purification of Rapamycin from the culture broth of Mtcc 5681	Pakistan Journal of Biological Sciences	<b>2013</b>	1028-8880

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47	Sujana Prasad Chittineni, Satish Chandra Maheshwari, <b>Lakshmi Narasu mangamoori</b>	Formulation and Evaluation of Aluminum Adjuvanted Combination Vaccine with Reduced Freeze Sensitivity	IOSR Journal Of Pharmacy	<b>2013</b>	2319-4219
48	Ravikanth ReddyKosana, ChitraBajji, Radha MadhaviKanumuri, KalpanaPanati, <b>Lakshmi NarasuMangamoori</b> , Muralikrishna ReddyTummuru, Venkata RamireddyNarala	Recombinant approach for the production of HIV fusion inhibitor Enfuvirtide using <i>Escherichia coli</i>	Protein Expression and Purification	<b>Marc h 2014</b>	1046-5928
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51	Ravindranath Tagore, P.; <b>Lakshmi Narasu, M</b>	Isolation and Development of a Soil Fungal Strain with High Lipolytic Activity by Mutation	International Journal of Pharmaceutical, Chemical & Biological Sciences	Jan-March 2014	2249-9504
52	Parvataneni Durga Maheswari, Devraj Rambhau, <b>Mangamoori Lakshmi Narasu</b>	Development of Valsartan Controlled Release Formulations from Spray Dried Powder by Micellar Solubilization Technique	International Journal of Advances in Pharmaceutical Research	March 2014	2230-7583
53	Kavitha Alli And Lakshmi Narasu Mangamoori	Comparative Evaluation of Antimicrobial Activities of Root, Stem and Leaves of <i>Holoptelea Integrifolia</i> against Pathogenic Bacteria	Asian Jr. of Microbiol. Biotech. Env. Sc	January 2014	0972-3005
54	Hassan Rostami, <b>Archana Giri</b>	An overview on microbial phytase and its biotechnological applications.	International journal of Advanced biotechnology and Research	<b>2013</b>	
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61	K. Venkateswar Reddy, T.Vijayalakshmi, <b>Archana Giri</b> and JG Bhavani	Effect of paper Industry Effluents on physicochemical and biological properties of soil.	International Journal of Innovative Research in Science, Engineering and Technology	<b>2013</b>	
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63	Hassan Rostami and <b>Archana Giri.</b>	Transgenic Plants Expressing Exogenous Phytase Gene; Sustainable Technology for Sustainable Environment.	International Journal of Biological Sciences and Engineering.	<b>2013</b>	
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65	Awantika Shrivastava, Durga Prasad K and <b>Archana Giri</b>	Identification of P13K inhibitor scaffold based on ligand and pharmacophore model.	Online Journal of bioinformatics	<b>2013</b>	
66	Ravi Kumar K, <b>Archana Giri</b> and Rama Rao N	Cross docking as a method to select CDK-9 protein target for	International Journal of computational bioinformatics and in	<b>2013</b>	

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67	J Mary Grace and Archana Giri	Antimicrobial activity of phytopharmaceuticals for prevention and cure of diseases.	Annals of Phytomedicine	2013	
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2.	Kumaraswamy Sorra, Chi-Fen Chang, Srinivas Pusuluri, <b>Khagga Mukkanti</b> , Min-Chiau Laiu, Bo-Ying Bao, Chia-Hao Su and Ta-Hsien Chuang	Synthesis, anticonvulsant, sedative and anxiolytic activities of novel annulated pyrrolo[1,4]benzodiazepines	<i>International Journal of Molecular Sciences</i>	2014	
3.	Nirogi RV, Bandyala TR, Reballi V, Konda JB, Daulatabad AV, <b>Khagga Mukkanti</b>	Design, synthesis and pharmacological evaluation of indolylsulfonamide amines as potent and selective 5-HT <sub>6</sub> receptor antagonists	J Enzyme Inhib Med Chem	2014 Mar 25.	
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5.	P.Vijayababu, Dhilli	Synthesis of N-(3-	Tetrahedron	2014	

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31	T.Raghavendra , K.Srilatha, C. Mahender, M.Elander, T.Vijay lakshi, <b>V.Himabindu,</b>	Viswa Prasad, P.Padma savitri, D.Datta and J.Arunachalam. Distribution of uranium concentration in ground water samples from the peddagattu/ nambapur and seripally regions using laser fluorimetry,	radiation protection dosimetry	2013	(IF 1.5) 158(3):32 5-30. <b>ISSN:</b> 1742- 3406.
32	V.Viditha, M.Venkateswer Rao, K.Srilatha, <b>V.Himabindu,</b> Anjaneyulu Yerramilli “	A study on metal organic framework (mof-177) synthesis,Characterizati on and hydrogen adsorption –desorption cycles”	International journal of energy and environment,.	2013	(IF1.2 )  ISSN 2076- 2909.
33	M. Venkateswer Rao, K. Amareshwari, V. Viditha, C. Mahender, <b>V Himabindu</b> and Y Anjaneyulu,	Flame Synthesis of Carbon Nanorods with / without catalyst,	International Journal of Innovation and Applied Studies,	2013	(IF 1.0) Vol. 3 No. 1 May pp. 1-5. <u>ISSN:</u> <u>2351-8014</u>
34	Pooja K, Shakeela Banu S, Sreekanth D, <b>V. Himabindua*</b> ,	A Critical Evaluation on Efficiency of <i>Chlorella vulgaris</i> for Biodiesel Production and CO2 Removal in Indoor and Outdoor Culture Conditions,	Photon 127 260-271. The Journal of Energy and Environmental Science	2013	(IF1.7)
35	Dr. T. Vijaya lakshmi	Changes in soil enzyme activities under the influence of cotton ginning industry effluents	Asian Jr. of Microbial. Biotech. Env. Sc	2013	

36	Dr. T. Vijaya lakshmi	Effect of paper industry effluents on physico chemical and biological properties of soil	IJRSET	2013	
37	Dr. T. Vijaya lakshmi	Effect of cotton industry effluents on physico chemical and biological properties of soil	IJRSET	2013	
38	Dr. T. Vijaya lakshmi	Soil microbial response to paper industry effluents	TBR	2013	
39	Dr. T. Vijaya lakshmi	Investigation on vertical coupling of atmospheric regions using combined multi wavelength optical dayglow, magnetic, and radio measurements	Biodiversity Conservation	2013	
40	Dr. T. vijaya lakshmi	Investigation on vertical coupling of atmospheric regions using combined multi wavelength optical dayglow, magnetic, and radio measurements	Journal Geophysical Research: Space Physics	2013	

#### 5. Centre for Pharmaceutical Sciences

	<b>M. Sunitha Reddy</b>				
1	<b>M. Sunitha Reddy,</b> Ch. Surekha, G. Anusha, S. Mallikarjun Reddy	A Review on Transbuccal Drug Delivery Systems and its Commercially Available Products	Research journal of pharmacy and technology	2013	5(1); ISSN: 0974-3618; pg 22-28, (Indexed).
2	<b>M. Sunitha Reddy,</b> Sama Mallikarjun Reddy*, A. Mahesh Chandra, B. Sai Santhosh, Ch. Surekha, K. Naveen	Novel Approaches for Delivery of Proteins and Peptides – A Review	Research journal of pharma dosage forms and tech	2013	ISSN: 0975-234X ; pg 07-11, (Indexed).
3	<b>M. Sunitha Reddy*</b>	Formulation and	International Journal	2013	581 -

	and A. Navatha	Evaluation of Zidovudine Matrix tablets using Dikamali	of Pharma and Bio Sciences		590; ISSN 0975-6299 (IF 0.65).
4	<b>M. Sunitha Reddy*</b> , Manasa Kuthala	Formulation and evaluation of sustained release matrix tablets of metformin by using the combination of natural and synthetic polymers	World journal of pharmacy and pharmaceutical sciences	2013	ISSN 2278-4357, (p) 5977-5987, (IF 1.048 )
5	<b>M. Sunitha Reddy*</b> , B. Sai Santosh	Formulation and In-Vitro evaluation of gastro retentive In-situ floating gels of repaglinide cubosomes	Journal of pharmacy research	2013	ISSN: 2321-4988 1(8),7 87-797, [IF (TM) 2.5]
6	<b>M. Sunitha Reddy*</b> , G.Anusha	Formulation and evaluation of tenofovir orodispersible tablets by using different superdisintegrants	World journal of pharmacy and pharmaceutical sciences	2013	ISSN 2278-4357, vol (2), Issue (6), 6423-6436, (IF 1.048 )
7	<b>M. Sunitha Reddy*</b> , Shruthi Bandela	Formulation and Evaluation of Albendazole Sustained Release Matrix Tablets Using Okra Gum	International Journal of Research in Pharmaceutical and Biomedical Sciences	2013	ISSN: 2229-3701, Vol. 4 (4), (Indexed)
8	<b>M. Sunitha Reddy</b> , S. Arunajyothi*, M. Sravanthi, S. Phanita	Review on Microrobot	International Journal of Research in Pharmaceutical Sciences	2013	ISSN: 0975-7538, 2(3), 2011, 1-8, (IC Value 5.44)
9	JYOTHI, S.,	Enhancing the	International Journal	2013	Date



	<b>REDDY, B., NAVATHA</b>	solubility of Candesartan cilexetil-Inclusion Complexation using $\beta$ -CD	of Drug Delivery, North America		accessed: 25 Jan 2014, (IF 1.02).
10	<sup>1</sup> <b>M.Sunitha Reddy*</b> , <sup>2</sup> G.Sowmya, <sup>3</sup> B.Shruthi	Formulation and evaluation of Nevarapine Sustained Release Matrix Tablets Using Mucilage of Ambelmoschus Esculentus as Release Modifier	International journal of Pharmacy and Pharmaceutical Sciences	2014	ISSN: 0975-1491, Vol 6, Issue 5, 16, 661-668.
11	<b>M. Sunitha Reddy, N. Srikanth Reddy*, S. Mallikarjun Reddy</b>	Solubility Enhancement of Poorly Water Soluble Drug Efavirenz by Solid Self Emulsifying Drug Delivery Systems	International Journal of Pharma Research & Review	2014	ISSN: 2278-6074, 3(4): 20-28
12	Varalakshmi K, Subramanian G, <b>Sunitha Reddy M</b>	Fixed Dose Combination Products of Anti-Hypertensive's and Anti-Diabetics, – Regulatory Issues and Perspectives – an Indian perspective against USA and EU	International journal of Pharmacy and Pharmaceutical Sciences	2014	ISSN: 0975-1491, Vol 6, Issue 3, 13-16
	<b>M. Ajitha</b>				
1.	Ceema Mathew, <b>M. Ajitha</b> and R.Sathesh babu	Cefpodoxime Proxetil: A New Stability Indicating RP-HPLC Method	ISRN Chromatography	2013	0.34
2.	Khagga Bhavyasri, V. Murali Balaram, R. Nageswarao, D.Rambabu and <b>M. Ajitha</b>	RP-UPLC method development and validation for the simultaneous estimation of proguanil and atovaquone in pharmaceutical dosage form,	Journal of Chemical and Pharmaceutical Research,	2013	0.45
3.	Khagga Bhavyasri, V. Murali Balaram, R. Nageswarao, D.Rambabu and <b>M. Ajitha</b>	Rapid simultaneous determination of naproxen and esomeprozole magnesium in combined tablets by validated ultra	Journal of Chemical and Pharmaceutical Research	2013	0.45

		performance liquid chromatographic method,			
4.	Rambabu Maddela, Ramakrishna Gajula, Nageswara Rao Pilli , Sridhar Siddiraju, Srinubabu Maddela, <b>Ajitha Makula</b>	Liquid chromatography– tandem mass spectrometric assay for eltrombopag in 50µL of human plasma: A pharmacokinetic study	Journal of Pharmaceutical and Biomedical Analysis	2014	2.9
5.	Kothapalli Haribabu, <b>Makula Ajitha</b> , Uppuluri VenkataMallavadhani	Quantitative estimation of (-) - hinokinin, a trypanosomicidal marker in Piper cubeba, and some of its commercial formulations using HPLC-PDA	Journal of Pharmaceutical Analysis	2014	0.36
6.	Ceema Mathew, B. Suman, <b>M. Ajitha</b> And P.R.Sathesh Babu	A Green Analytical Method for the Simultaneous Estimation of Levofloxacin Hemihydrate and Ambroxol Hydrochloride Using Hydrotrophy and First Derivative UV Spectroscopy	Oriental Journal Of Chemistry	2014	0.578
7.	Ceema Mathew, <b>M. Ajitha</b> And P.R.Sathesh Babu	Development and Validation of a Stability Indicating RP-HPLC Method for Balofloxacin	Oriental Journal Of Chemistry	2014	0.578
8.	Srinubabu Maddela, <b>Makula Ajitha*</b> , Muralidharan venugopal, Rambabu Maddela	Design And Synthesis of Novel Quinoline 3-Carbohydrazone Derivatives for their Antimicrobial and Antioxidant activity	International Journal of Pharmacy and Pharmaceutical Sciences,	2014	1.6
9.	Srinubabu Maddela, <b>Ajitha Makula</b> & Rambabu Maddela	Synthesis of isatin–quinoline conjugates as possible biologically active agents	Toxicological & Environmental Chemistry	2014	0.832
1	Mallikarjuna Rao, P.Mahesh Kumar, D.	Novel alkynyl substituted 3,4-dihydropyrimidin-	Bioorganic Chemistry	19August	2.152, ISSN

	Ram Babu, Ravi Kumar Kapavarapu, <b>S. Shobha Rani</b> , Kamal Misra, Manojit Pal	2(1H)-one derivatives as potential inhibitors of chorismate mutase		2013	1443-2250, 51 (2013) 48–53. <i>Established 1995</i>
2	Sri Ramachandra M, Srinivasa Rao Avanapu, <b>Shobha Rani S</b>	Evaluation of analgesic and anti-inflammatory activity of momordica charantia.	international journal of pharmacy	<b>2013</b>	<b>1.21, 3(1): 176-179 ISSN 2249-1848</b>
3	Vinayendher Adireddy, Nageshwar Rao Pilli, Venkata Ramu Derangula, <b>Shobha Rani Satla</b> , Chinna Veerabdraiah Ganguri, Venkateshwarlu Ponneri	Liquid chromatography-tandem mass spectrometric assay for aliskiren, a novel renin inhibitor in micro-volumes of human plasma: a pharmacokinetic application in healthy South Indian male subjects	Biomedical Chromatography	<b>2013</b>	<b>1.729</b>
4	Prasenjit Mondal, Santhosh. B, <b>S. Shobha Rani</b> And Rama Krishna Raparla	A new validated simultaneous RP- HPLC method for estimation of escitalopram oxalate and etizolam in bulk and tablet dosage form	Scholars Research Library	<b>2013</b>	<b>0.48</b>
5	Sunkara Yeswanth, <b>satla shobha Rani</b> , s.s Madhavendra.	Micro chemical analysis of Leucas Spera Link employing SEM-EDAX.	International journal of pharmaceutical sciences and drug research	<b>2013</b>	<b>0.48</b>
6	Prasenjit Mondal, <b>S. Shobha Rani</b> , Alekhya K	A new stability indicating quantitative rp-hplc method for blonanserin-a novel antipsychotic agent	Indo american journal of pharmaceutical research	<b>2014</b>	<b>0.3</b>
7	Sri Ramachandra M,	Hepatoprotective and	International journal of	<b>2014</b>	<b>5.5</b>

	Srinivasa Rao Avanapu, <b>Shobha Rani S</b>	antioxidant activities of areal parts (except fruits) of cicer arietinum against carbon tetrachloride induced hepatotoxicity in rats”.	pharmacy		
8	P. Vivek Sagar, Nelofer Bagum, <b>S. Shobha Rani</b>	Stability indicating RP HPLC method for the estimation of Armodafinil in tablet dosage form.pages: 604-609.	IJPPS-2014	<b>2014</b>	<b>0.91</b>
9	P. Vivek Sagar, T. Samidha, M. Vamshi Krishna, <b>S. Shobha Rani</b>	A validated RP-HPLC method for simultaneous estimation of aspirin and prasugrel in tablet dosage form.  page no:4858-4864	IJPSR-2014	2014	2.44
10	P. Vivek Sagar, T. Samidha, <b>S. Shobha Rani</b>	A validation RP-HPLC method for Determination of mesoindigo in Bulk form.	Inventi rapid: Pharma analysis &Quality Assurance-2014	2014	0.4
11	<b>S. Shobha Rani</b> , Bethi Srinivas, Raju Bathula, J. Venkateshwar Rao, K. Rama Devi	Synthesis and pharmacological evaluation of novel Imidazole Derivatives.  Pages: 249-261	IJPAP,2014.	2014	3.056
	<b>G. Krishna Mohan</b>				
<b>1</b>	Swaroopaa Rani V, Praneetha P, <b>G. Krishna Mohan</b>	Anti-hyperglycemic Potential of fractionated extracts of <i>Trichuriella monsoniae</i> Bennet in Streptozotocin -induced diabetic rats: Possible mechanism of action	International Journal of Phytomedicine	2013	1
<b>2</b>	Shanker Kalakotla*, <b>Krishna Mohan Gottumukkala,</b>	Light and scanning electron microscopic (SEM) characterization and energy dispersive x-ray analysis (EDAX) of the medicinal plant <i>Saraca indica</i> Linn.	International Journal of Pharma Sciences	2013	1.90
<b>3</b>	Swaroopaa Rani V, Praneetha P, <b>G. Krishna Mohan</b>	Anti-hyperglycemic activity of <i>Trichuriella monsoniae</i> Bennet in streptozotocin induced diabetic rats.	International Journal of Advances in Pharmaceutical Research	2013	0.90,

4	B.Mohammed ishaq, dr.k.vanitha Prakash, <b>Dr.G.Krishna Mohan</b>	RP-HPLC method for simultaneous estimation of Rosuvastatin & Ezetimibe from their combination tablet dosage form	International Journal Of Chemical & Analytical Science	2013	0.8
5	B.Mohammed ishaq, dr.k.vanitha Prakash, <b>Dr.G.Krishna Mohan</b>	Development & validation of a reverse phase HPLC method for analysis of temozolomide in a capsule formulation	International Journal of chemical sciences	2013	0.90
6	Hari kumar ch, Ramesh allure, <b>Krishna mohan G</b>	hepatoprotective & anti-oxidant effect of ecbolium viride alston roots against paracetamol- induced hepatotoxicity in albino wistar rats.	<i>Journal of pharmacy research</i>	2013	1.2
7	Iffath Rizwana1, Dr. K. Vanitha Prakash, <b>Dr. G. Krishna Mohan</b>	development and validation of Rp-Hplc Method For estimation of paracetamol and Tapentadol Hcl In Pharmaceutical dosage form	<i>International Journal Of Pharmacy</i>	2013	0.7
8	Chandrasekhar R Bonepally, <b>Dr. G. Krishna Mohan</b>	Preparation, Characterisation and <i>In Vivo</i> Evaluation of Silybin Nanoparticles for the Treatment of Liver Fibrosis	<i>Tropical Journal of Pharmaceutical Research</i>	2013	0.2
9	Chandrasekhar R Bonepally, <b>Dr. G. Krishna Mohan</b>	Parenteral sustained release silybin microparticles intended for treatment of liver fibrosis	<i>Int Journal Of Pharmacy And Biological Sciences</i>	2013	0.8

#### 6. Centre for Spatial Information Technology

01	Dr. K. Manjulavani	NBD Fibers as Building Materials		June 2013.	
02	T. Valsa Ipe, H. Sharada Bai, K. ManjulaVani and Merchant Mohd Zafar Iqbal,	Flexural Behaviors of Cold-Formed Steel-Concrete Composite Beams	Steel and Composite Structures,	2013,	Vol.14, No.2, pp.105-120.
03	Ballu Harish, R.Venkat Sheshu, K.Manjula Vani	Exchange of Global Telecommunication System data at INCOIS		Nove2 014	ISBN: 978935107 2973
04	M.Sumanth Reddy, Sourav Maity, K.Manjula Vani,	Sardine Distribution Pattern using Satellite Remote Sensing and GIS application		Nov20 14,	ISBN: 978935107 2973
05	Maloth Chaitanya, Dr. K.V. Manjula Vani	Wireless Sensor Networks for Automated Field Data Collection”		Nov 2014	ISBN: 978935107 2973
06	M.Sumanth Reddy, Sourav Maity, K.Manjula Vani	Indian Oil Sardine Prediction Pattern using Satellite Remote Sensing and GIS applications		Dec 2014	ISBN: 978-93-81212-96-7
07	G. Srinivasa Rao and k.manjulavani, Ph.D.,	Reuse of HDPE for Municipal Solid Waste Disposal”		Dec 2014	978-93-81212-96-7

08	Maloth Chaitanya, Dr. K. Manjula Vani	Correlation of Wireless Sensor Networks with Remote		Dec 2014	ISBN: 978-93-81212-96-7
09	J. Venkatesh	Land Use and Land Cover Changes of Al-Kut City in Iraq using Remote Sensing and GIS Techniques	International Journal of Scientific Engineering and Technology Research (IJSETR- 2014)	2014	ISSN:2319-8885
10	J. Venkatesh	Remote Sensing and GIS		2014	
11	Ramamohan Reddy.K.and Patode.R.S	Assessment of Ground water Quality- A case study of Kondapur mandal, Medak district, A.P”.		2013	Vol.8(2), PP. 267-273
12	Ramamohan Reddy.K. Swetha	Enumeration and Validation of Hydrodynamic Characteristics over plane and serrated slopes	International Journal of Civil Engineering & Technology(IJCIET)	2013	Volume4, P.No.185-193
13	Zameer Ahmed., Ram Mohana Rao.D., Ramamohan Reddy. K., Dr.Yellam Raj.Y.,	Urban Case Study of Hyderabad: Global Journal of Engineering, Design & Technolgy,		2013	Vol.2(4), pp63-66.
14	Ramamohan Reddy.K. R.Srirama Murthy and Rajesh S.Patode	Thematic Integration Approach for Watershed and Land Management	Indian Journal of Science & Technology	2013	Volume 6(10), P.No.538 0-5385
15	Suresh Kumar .G, Viswanadham .M, Gupta A.V.S.S.K.S, Santosh Kumar .G	A review of Pre-combustion CO <sub>2</sub> Capture in IGCC	International Journal for Research in Engineering and Technology	2013	Vol. 2, Issue 5, PP 847-853
16	Viswanadham .M & S. Eshwariah	Life cycle assessment of Buildings	Indian Journal of Environmental Protection	2013	Vol. 33, No. 11, November
17	Viswanadham .M & Suresh Kumar .G et al	A Review of Pre-Combustion CO <sub>2</sub> Capture in IGCC	IJRET	2013	pp 847-853
<b>7. Centre for Water Resources</b>					
1	<b>M.V.S.S. Giridhar,</b> Ch. Ramesh naidu	GIS Based Approach For Canal Conveyance Losses	International Journal of Engineering Research & Technology (IJERT)	December – 2013	ISSN: 2278-0181 Impact Factor 2.8
2	Ch. Ramesh naidu and <b>Giridhar M.V.S.S</b>	A GIS Approach for Estimation of Irrigation Water Requirements and Scheduling in Canal Command Area	International Journal of Engineering Research & Technology (IJERT)	March – 2014	Impact Factor: 1.76, ISSN: 2278-0181

3	<b>M.V.S.S. Giridhar</b> and M. Anjaneya Prasad	Fuzzy Logic Simulation For Ground Water Recharge Estimation Using Soil Water Balance Method	International Journal of Social Science and Management (Research Revolution)	Novem ber 2014	ISBN: 2319- 300X. (Impact factor 4.472)
4	<b>M.V.S.S.Giridhar</b> and P. Suneel	Net Radiation Estimation From A Remotely Sensed Data Using Sebal Model	International Journal of Engineering Research , (HYDRO 2014 International)	Dec. 2014	ISSN:231 9-6890
5	Venkateswara Rao, B., Varalakshmi, V., Rajesh Nune. and Anju Gaur.	Estimation of Return Flows from Canal Command area between Nagarjuna Sagar Reservoir and Prakasam Barraige, India	J. Hydrol. Eng. (ASCE)	2013	ISSN: 1282-1288
6	Venkateswara Rao. B., Siva Prasad, Y. and Srinivasa Reddy, K	Hydrogeophysical Investigations in a Typical Khondalitic Terrain to Deliniate the Kaolinised Layer using Resistivity Imaging	The Journal of Geological Society of India	2013	ISSN: 521-530
7	Varalakshmi, V., Venkateswar Rao, B., Surinaidu, L. and Tejaswi.M.	Ground Water Flow Modeling of an Hardrock Aquifer-A case study	J. Hydrol. Eng. (ASCE)	2014	ISSN: 877-886
8	Salauddin Mohammad, Gopa Dutta, P Vinay Kumar, E Krishna, M C Ajay Kumar, B V Rao and P V Rao.	Madden – Julian oscillations over a tropical Indian station using radar and ERA data of winds	Journal of Radio and Space Physics	2014	ISSN:223 -558
9	Lakshminarayana , P. and Venkateswara Rao, B	Spatial and Temporal Variability Investigations of Rainfall in Yerrakalava River Basin of Andhra Pradesh, India	International Journal of Engineering Research & Technology (IJERT)	2014	ISSN: 1153-1156
10	Lakshminarayana, P. and Venkateswara Rao, B	Identification of the Recharge Sites Using Remote Sensing and GIS in Hard Rock Terrain	Indian J. Dryland Agric. Res. & Dev	2014	ISSN:621 -875
11	Sarala, C.,	Identification of groundwater prospects in the Khammam district	Int. Journal of Applied Sciences and Engineering Research, Vol. 2, No. 2, 2013, pp 146-159	2013	ISSN 2277 – 8442
12	Sarala, C.,	Landuse/landcover and NDVI analysis for Halia catchment	International Journal of Advanced Research in Engineering and Technology (IJARET), Volume 4, Issue 5, pp. 126-133.	2013	ISSN 0976 – 6499, impact factor – 5.8376
13	Sarala, C.	Geographical Information System Based	International Journal of Innovative Research in	2013	ISSN: 2319-

		Morphometric Analysis of Halia Drainage Area, Nalgonda District, Andhra Pradesh, India	Science , Engineering and Technology, Volume 2, Issue 11, November 2013, pp. 6218-6225.		8753, impact factor – 1.672.
14	Sarala, C., and Sree Lakshmi, G.	Solid Waste Management in Mahaboobnagar Municipality	International Journal of Computational Engineering Research, Volume 4, Issue, 3, March 2014, pp.43-52.	2014	ISSN: 2250-3005. Impact factor – 1.145
15	Sarala, C., and Sree Lakshmi, G.,	Improvement of Storm Water Drainage System in greater Hyderabad Municipal Corporation”,	International Journal of Advances in Engineering and Technology, Vol. 7, Issue 2, May 2014, pp. 605-613.	2014	ISSN: 22311963. Impact factor – 1.56

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

S.No:	Authors Name	Title of the Book	Year of Publication	ISBN/ISSN
<b>1. Centre for Biotechnology</b>				
-	-	-	-	-
<b>2. Centre for Chemical Sciences and Technology</b>				
1	Prof.K.Mukkanti	Environmental Studies- A Text book for Under graduates	S.Chand’s publications, New Delhi	-
2	Prof.K.Mukkanti	Practical engineering chemistry	B.S. publications, Hyderabad.	-
3	Prof.K.Mukkanti	A text book of engineering chemistry	S.Chand’s publications, New Delhi	-
4	Prof.K.Mukkanti	Editor for the Proceedings of conference on “New Dimensions in Chemistry and Chemical Technologies” (NDCT-2014)	Spectrum publications	-
<b>3. Centre for Nano science and Technology</b>				
1	K. VenkateswaraRao C.S. Sunandana	Combustion & Chemical Bath Deposition of Nanopowders and Thin Films	2013	ISBN No. 978-3-659-35939-2
2	ShilpaChakraChidurala VenkateswaraRaoKala gadda	Magnetic Nanoparticles: Synthesis and Characterization	2013	ISBN No. 978-3-659-35864-7



3	SeshaSai Kumar Vemula VenkateswaraRaoKala gadda	Solution Combustion Synthesis of Nanocrystalline Bismuth Ferrite	2013	ISBN No. 978-3- 659- 34512-8
4	Chinthakuntla. Ashok K. VenkateswaraRao	CdS Nanoparticles and Thinfilms for Solar Cell Application	2013	ISBN No. 978-3- 659- 37024-3
5	Sudheer Kumar. Nedunuri Dr.K. VenkateswaraRao Dr. G. Chakravarti	Tribological Properties of Epoxy/Al <sub>2</sub> O <sub>3</sub> Nano Composites	2013	ISBN No. 978-3- 659- 39289-4
6	Y.T. Prabhu K. VenkateswaraRao V. SeshaSai Kumar	Novel Synthesis of Fe doped Zinc Oxide Nanoparticles Properties	2013	ISBN No. 978-3- 659- 35372-7
7	VenkaiiahGarnipudi VenkateswaraRaoKala gadda Shilpa Chakra Chidurala	Nano Crystalline Lanthanum Ferrite: Synthesis and Characterization	2013	ISBN No. 978-3- 659- 37615-3
8	Swapna Poloju K. VenkateswaraRao V. SeshaSai Kumar	Seed Germination Activity - ZnO Nanoparticles	2013	ISBN No. 978-3- 659- 37806-5
9	SatishBykkam VenkateswaraRaoKala gadda Shilpa Chakra Chidurala	Carbon Nanomaterial: Graphene Oxide and Graphene Oxide Film	2013	ISBN No. 978-3- 659- 37639-9
10	Tambur Pavani CH. Shilpa Chakra K. Venkateswara Rao	Modern Ayurvedic Method: Iron Oxide Nanoparticles	2013	ISBN No. 978-3- 659- 37779-2
11	TejaswiThunugunta Shilpa Chakra Chidurala VenkateswaraRaoKala gadda	Silver Nanoparticles-Bio Synthesis by Ocimum Species	2013	ISBN No. 978-3- 659- 36385-6
4. Centre for Environment				
-	-	-	-	-
5. Centre for Pharmaceutical Sciences				
-	-	-	-	-
6. Centre for Spatial Information Technology				
-	-	-	-	-
7. Centre for water Resources.				
1	Varalakshmi, V. and Venkateswara Rao, B	Study on Impacts of Rainfall Variability and Urbanisation on Cropping Area	2013	

3	Dr. M.V.S.S. Giridhar	Proceedings of Two day National conference on Water, Environment and Society	2014	ISBN: 978-93-83635-13-9
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**12. Details of Patent/ Ongoing Projects / Consultancies (during Academic Year 2013-2014):**

Title/Description	Principal investigator	Duration/time period	Sponsoring Organization	Funding Amount	Remarks
<b>1. Centre for Biotechnology</b>					
Production of Bioethanol from Concentrated black liquor (CBL) Waste of Rajahmundry Paper mills".	Dr. A. Uma	3 years (2010-2013)	CSIR	9,80,000	
Studies on the effects of Obesity and Obesity induced Type 2 Diabetes on advanced aging phenomenon.	Dr. A. Uma	3 years (2012-2015)	DBT	56,96,000	
Consortium for development of Sustainable Advanced Lignocellulosic Biofuel Systems.	Dr. A. Uma	5 years (2012-2015)	INDO-US Joint Clean Energy Research And Development Center	88,68,000	
Technology Project on Hydrogen Production through Biological Routes	Prof. M Lakshmi Narasu	5 years (2010-2015)	MNRE	49,69,000	
Bioconversion of ascorbic acid to ascorbic acid 2- phosphate by using ascorbic acid 2 kinase from a microbial	Prof. M Lakshmi Narasu	3 years 2010-2013	UGC	7.41,000	

source					
Evaluation of chemopreventive activity of <i>Elytraria acaulis</i> – as insight into molecular mechanism	Dr. M Lakshmi Narasu	2013	AICTE	12,00,000	
Biochemical elucidation of <i>Centella asiatica</i> leaf epidermome , cloning and over expression of the genes involved in the production of pharmaceutically important centellosides	Dr. Archanagiri	3 years 2010-2013	DST SERB	32,47,000	completed
Improved production of gymnemicacid by ecilitation using invitro transformed cultures of <i>gymnema sylvestre</i>	Dr.Archana Giri	3Years 2010-2013	UGC	9,00,000	
Bioprocess development for adiponectin production using hairy root cultures of <i>withania somnifera</i>	Dr. Archana Giri	Two years 2012-2014	AICTE	16,50,000	COMPLETED
<b>2. Centre for Chemical Sciences and Technology</b>					
Synthesis of heterocyclic compounds via Pd/C – catalyzed reactions	Dr.K.Mukkanti	2011-13	CSIR	16.0	Completed
“Design, Synthesis and Biological Evaluation of small molecule antimitotic agents with DNAS Damaging Properties”	Dr.P.Sadanandam Young Scientist	2014-17	DST-SERB	31.5	Ongoing
<b>3. Centre for Nano science and Technology</b>					
Biology- Nanomaterials-	Dr.K.Venkateswara Rao	3 years	UGC	11.7 Lakhs	On going

Green Nanotechnology					
Development of gas sensors by using microbial biofilms with ferrite nanoparticles	Dr.K.Venkateswara Rao	3 years	DST-SERB	37.4 Lakhs	On going
<b>4. Centre for Environment</b>					
Marine anaerobic bacterial diversity for the production of antimicrobials	Dr. Ch Sasikala	3 years (18-7-2013 to 31-3-2017)	MoES	40,000,00/-	On going
Departmental improvement activities	Dr.V.Himabindu	2011-2016	DST-FIST	61 Lakhs	
Hydrogen production through biological routes	Dr.V.Himabindu	2010-2016	MNRE-Mission project	49 lakhs	
<b>5. Centre for Pharmaceutical Sciences</b>					
Synthesis characterization & Pharmacological evaluation of some herbal mediated silver nanoparticles for anti diabetic activity	Dr. G. Krishna Mohan	2013 - 2016	DST-SERB	39.9 Lakhs	
Fund for Improvement of S&T Infrastructure	Dr. G. Krishna Mohan	2013 - 2016	DST-FIST	56.0 Lakhs	
Development of solvent free and economically viable process for novel isatin derivatization and cytotoxic evaluation	Dr. M. Ajitha	2013 - 2016	AICTE-RPS	6.5 Lakhs	
Eco-design of Isatin derivatization under solvent	Dr. M. Ajitha	2013 - 2016	UGC-MRP	11.47 Lakhs	

free condition and evaluation for anticancer and antimetabolic activity					
Self Emulsifying Drug Delivery Systems for Poorly Soluble Drugs/NDDS	Dr. M. Sunitha Reddy	2013	AICTE-MODROBS	20 Lakhs	
Design, microwave synthesis of Novel angiogenesis inhibitors as potential cytotoxic and DNA intercalators	Dr. S. Shobha Rani	2013	UGC-SRF	14.35 Lakhs	
Design and Novel Microwave Assisted Green synthesis of TRKS (Receptor Tyrosine Kinases) inhibitors for targeting Cancer cells.	Dr. S. Shobha Rani	2013	AICTE-RPS	24.6 Lakhs	

Patents:

S.No.	Name of the Faculty	Name of the Item	Patent Published/filed	Year
1.	Dr. G. Krishna Mohan	Methanolic extract and different fractions of muntingia calabura for diabetes mellitus in diabetic rats	Filed (2341/CHE/2014A)	2014

#### 6. Centre for Spatial Information Technology

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#### 7. Centre for Water Resources

Identification of water well	Dr.B.Venkateswara Rao	2013-2014	BHEL	4 lakhs	completed
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points using Resistivity Imaging in the BHEL Township, 2013.					
Identification of Water well points using Resistivity Imaging in the Shilparamam campus, Hitech City, Hyderabad. 2014.	Dr.B.Venkateswara Rao	2013-2014	Shilparamam	40,000/-	completed
Application of resistivity Imaging for the delination of Kaolinised Zones to contain water well failuires in the khondalitic terrain	Dr.B.Venkateswara Rao	2013-2016	DST	19.93 lakhs	completed
UGC XI plan innovative programme	Prof.B.Venkateswara Rao	2011 to 2016	UGC	57 lakhs	Ongoing
Rooftop rainwater harvesting, use and artificial recharge in urban scenario using Geomatics	Dr.MVSS.Giridhar	2013-14	AICTE, RPS, New Delhi	14,50,000	Ongoing
Hyperspectral remote sensing based crop inventory	Dr.MVSS.Giridhar	2013-14	UGC, New Delhi	12,00,000	Ongoing
Validation of hyper-spectral remote sensing based drought assessment through water balance and geomatic approach	Dr.MVSS.Giridhar	2013-14	AICTE, RPS, New Delhi	10,91,000	Ongoing

**13. Training and Placements details (during Academic Year 2013-2014):**

S.No.	Organization name	UG/PG	Male	Female	Total
<b>1. Centre for Biotechnology</b>					
1	VIRCHOW BIOTECH,	PG	3	3	6
2	GVK	PG	1	2	3
3	OMICS	PG	1	5	6
<b>2. Centre for Chemical Sciences and Technology</b>					
1	IICT Hyd	PG	1	-	1
2	Dr.Reddy's, Labs Hyd	PG	2	-	2
3	Mylan labs Pvt.Ltd Hyd	PG	3	-	3
4	Hetero labs Ltd Hyd	PG	4	-	4
5	Neuland Laboratories Pvt.Ltd	PG	4	-	4
<b>3. Centre for Nano science and Technology</b>					
1	Veda Technologies	PG	1	-	1
<b>4. Centre for Environment</b>					
1	1. Vimta Labs Pvt ltd, Hyderabad. 2. GVK Bio, Hyderabad. 3. EPTRI, Hyderabad 4. Spectralab Instruments Pvt. Ltd	PG	8	6	14
<b>5. Centre for Pharmaceutical Sciences</b>					
<b>6. Centre for Spatial Information Technology</b>					
-	-	-	-	-	-
<b>7. Centre for water Resources.</b>					
1	GVK Bio Science	PG	01	01	2

**14. Details of Students Academic/ Co-curricular/ Sports Achievements/ NSS Activities**

**CSIT-** Blood Donation

**CPS -** Conducted Pharmacist day celebrations and Health camp in IST Seminar hall

**CEN -** 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

**CWR –** Promotion of rainwater harvesting concepts for school children, awareness on fresh water eco-systems

**15. Major activities and achievements of the Institutions (during Academic Year 2013-2014):**

**CWR:** Constructed Six rainwater harvesting systems funded by Ministry of Water of Water Resources through Central Ground Water Board. These structures are designed innovatively with zero maintenance.



**Awareness campaign on water quality to corporate sector**





**Water quality testing process to corporate sector**



**Class room teaching to corporate sector.**

**16. Honors/ Distinctions/Awards/Rewards (during Academic Year 2014-2014):**

**CCST**

1. Prof.K.Mukkanti has elected as India's best researcher Award in top 05 authors in the field of Pharmacology, Toxicology and pharmaceuticals by Careers 360 Magazine scopus in the year 2014.

**CWR**

1. Dr.B.Venkateswara Rao has received **National Geoscience Award – 2011** in the field of Groundwater Exploration by Dept. of Mines, Govt. of India in the year 2013.
2. Dr.B.Venkateswara Rao has Elected as a **Fellow of Indian Geophysical Union (IGU)** in the year 2013.
3. Dr.B.Venkateswara Rao has Elected as a **Fellow of Andhra Pradesh Akademi of Sciences (APAS)** in the year 2014.

**17. Ph.D. Degrees awarded by the faculty and guided (during Academic Year 2013-2014):**

**CCST- Dr.K.Mukkanti- 9**

**CNST Dr.K.Venkateswara Rao 6 (guided)**

**CSIT-05**

**CBT-12**

**CEN-05**

**CWR- Dr.M.V.S.S Giridhar 01**

**18. Foreign visits (during Academic Year 2013-2014):**

**CCST**

- In 2014, Dr. A. Jaya Shree has attended and presented her research paper at International Conference in Abhudhabi, Dubai, 2014.
- In 2014, Dr. K. Mukkanti, CCST,IST,JNTUH has attended Networking and Study Tour one month program in Australia.

**CNST**

Dr. Ch. Shilpa Chakra, Head, CNST,IST,JNTUH has attended and presented her research paper at International Conference on Nano and GIGA challenges in Electronics, Photonics and renewable energy, Arizona State University, Phoenix metropolitan area, USA during March, 10-14., 2014

**CWR**

**Foreign Visits by prof.B.Venkateswara Rao**

- (1) Dr. B. Venkateswara Rao has attended and presented the research paper in the Second Symposium on the Geological Resources in the Tethys Realm, Aswan, Egypt during January 5-8, 2013

**Foreign Visits by Dr.M.V.S.S Giridhar**

Dr. M.V.S.S. Giridhar attended and presented paper in International Conference on World Environmental and Water Resources congress, EWRI 2013 at Cincinnati, Ohio, held on 19-23, May,2013.

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

**CNST**

- Manasa, Sharan Kumar 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.
- Satish, Dayakar were the Master students selected for the Rajiv Gandhi National Fellowship (RGNF) by the University Grant Commission (UGC) in the year 2013.
- Master students K. Manikantan is pursuing his PhD in Sungkyunkwan University, South Korea. M. Srikanth, PhD in Deakin University, Australia.
- 3 number of Invited lectures were organized for CNST.

**CPS**

- Our research scholar Mr. K. Shankar received fellowship from DST-SERB
- We had one guest lecture by Dr. Darragh murane Assoc dean, School of life and medical sciences, University of Hertford shire, UK on topic Advances in inhaled drug delivery

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